

## PROJECT INFORMATION

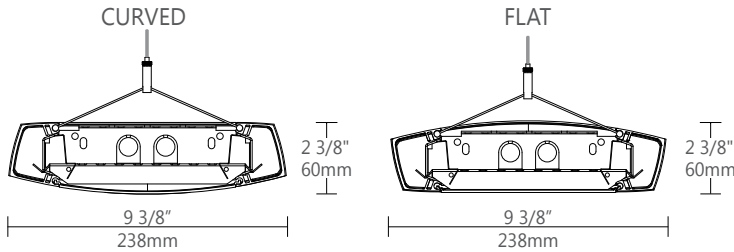
Project:

Type:

Notes:

## DIMENSIONS

### SECTION VIEWS



## ORDERING CODE

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|

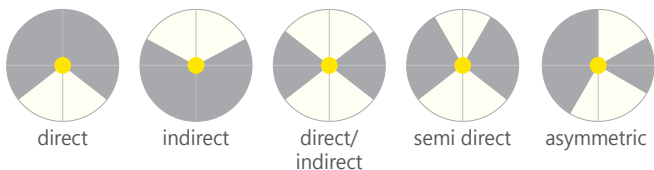
## PRODUCT SPECIFICATIONS

| 1 PRODUCT ID  | 2 OPTICS                           | 3 LENGTH/FT          | 4 LAMP           | 5 LAMP CONFIGURATION                                    | 6 MR (OPTIONAL)             |
|---|------------------------------------|----------------------|------------------|---|-----------------------------|
| <b>101F</b> pendant flat                              | <b>PL</b> semi spec. para. louvers | <b>4</b> 4'          | <b>T5</b> T5     | <b>1</b> 1 lamp   | <b>M16(#)</b> MR 16 halogen |
| <b>101C</b> pendant curved                            | <b>SB</b> white solid baffles      | <b>8</b> 8'          | <b>T5HO</b> T5HO | <b>2</b> 2 lamps  | <b>M16LED(#)</b> MR 16 LED  |
| <b>101FA</b> pendant flat asymmetric <sup>(1)</sup>   | <b>P</b> perforated                | <b>12</b> 12'        | <b>T8</b> T8     | <b>3</b> 3 lamps  |                             |
| <b>101CA</b> pendant curved asymmetric <sup>(1)</sup> | <b>SL</b> slotted                  | <b>S#</b> System Run |                  | <b>4</b> 4 lamps <sup>(2)</sup>                         |                             |
|   | <b>B</b> blank                     |                      |                  |   |                             |
|   | <b>S</b> satin lens                |                      |                  |   |                             |
| (1) One lamp with satin lens only                     |                                    |                      |                  | (2) Not available for T8                                |                             |
|   |                                    |                      |                  | Add 9" per lamp. Specify quantity Requires 120V or 277V |                             |

| 7 FINISH                 | 8 UP LIGHT REFLECTOR  | 9 DOWN LIGHT REFLECTOR  | 10 VOLTAGE                     | 11 BALLAST                            | 12 CIRCUITS   |
|--------------------------|---|---|--------------------------------|---------------------------------------|---|
| <b>AP</b> aluminum paint | <b>0</b> no reflector <sup>(3)</sup>  | <b>0</b> no reflector <sup>(5)</sup>  | <b>120</b> 120V                | <b>D</b> dimming                      | <b>1</b> 1 regular                                      |
| <b>W</b> white           | <b>1</b> 1 perf. white reflector <sup>(4)</sup>   | <b>1</b> 1 perf. white reflector <sup>(6)</sup>   | <b>277</b> 277V                | <b>E</b> instant start <sup>(8)</sup> | <b>2</b> 2 regular                                      |
| <b>BLK</b> black         | <b>2</b> 2 perf. white reflectors <sup>(4)</sup>  | <b>2</b> 2 perf. white reflectors <sup>(6)</sup>  | <b>347</b> 347V <sup>(7)</sup> | <b>ERS</b> program start              | <b>2A/B</b> 2 alternating                               |
| <b>C</b> custom          | <b>3</b> 3 perf. white reflectors <sup>(4)</sup>  | <b>3</b> 3 perf. white reflectors <sup>(6)</sup>  | <b>UNV</b> universal           | <b>BI</b> bi-level dimming            | <b>+E(#)</b> emergency section <sup>(9)</sup>           |
|                          |   | <b>4</b> 4 perf. white reflectors <sup>(6)</sup>  |                                |                                       | <b>+NL(#)</b> night light section <sup>(9)</sup>        |
|                          |   | <b>BK</b> blank <sup>(5)(6)</sup>   |                                |                                       | <b>+GTD(#)</b> generator transfer device <sup>(9)</sup> |
|                          |   | <b>FP</b> full perf. white reflector <sup>(6)</sup>   |                                |                                       | <b>+M</b> MR  |
|                          |   | <b>HP</b> half perf. white reflector <sup>(6)</sup>   |                                |                                       |   |
|                          | Only available with baffle and louver<br>(3) Available for all optics<br>(4) Available only with 0 reflector down<br>See light distribution guide for further details | Only available with baffle and louver<br>(5) Available for all optics<br>(6) Available only with 0 reflector up<br>See light distribution guide for further details | (7) Consult factory            | (8) Available with T8 lamp only       | (9) Specify quantity                                    |

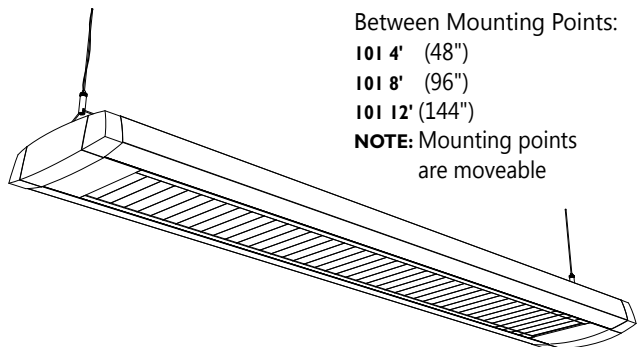
| 13 HANGER               | 14 MOUNTING/SUSPENSION   | 15 BATTERY (OPTIONAL)                           | 16 OTHER (OPTIONAL)                                  | 17 IC CONTROLS (OPTIONAL)  | 18 CUSTOM (OPTIONAL) |
|-------------------------|--|---|--|--|----------------------|
| <b>C</b> aircraft cable | <b>CA(#)</b> drywall+cable length (36" std.)                       | <b>B#</b> battery pack 4' sections              | <b>D</b> dust cover                                  | <b>DS#</b> daylight sensor   | <b>C</b> custom      |
| <b>D</b> die cast       | <b>CT9(#)</b> TB/TG 9/16+cable length (36" std.)                   |   | <b>F</b> fuse <sup>(10)</sup>                        | <b>OS#</b> occupancy sensor  |                      |
|                         | <b>CT15(#)</b> TB/TG15/16+cable length (36" std.)                  |   |  | <b>DOS#</b> daylight&occupancy sensor  |                      |
|                         | <b>CTS(#)</b> ST+cable length (36" std.)                           |   |  |  |                      |
|                         | <b>SA(#)</b> drywall+stem length >48" (18" std.)                   |   |  |  |                      |
|                         | Specify quantity<br>See ceiling mounting guide for further details | Requires 120V or 277V<br>Please consult factory | (10) Requires 120V or 277V<br>Please consult factory | Requires 8" blank. Specify quantity<br>See integrated controls guide for further details | Please specify       |

● LIGHT DISTRIBUTION



direct indirect direct/indirect semi direct asymmetric

● MOUNTING SPACING - INDIVIDUAL



Between Mounting Points:

101 4' (48")

101 8' (96")

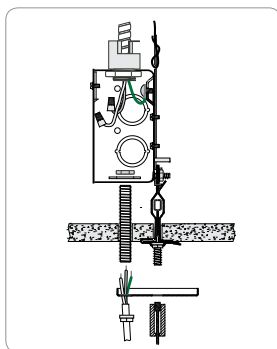
101 12' (144")

**NOTE:** Mounting points are moveable

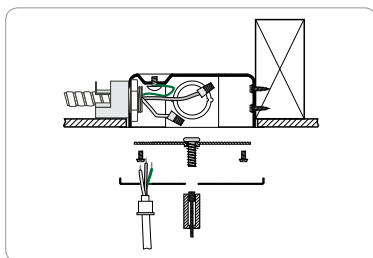
● MOUNTING SPACING - LONG RUNS

**i** Row configuration and mounting spacing file is available for download at: [www.axislighting.com](http://www.axislighting.com)

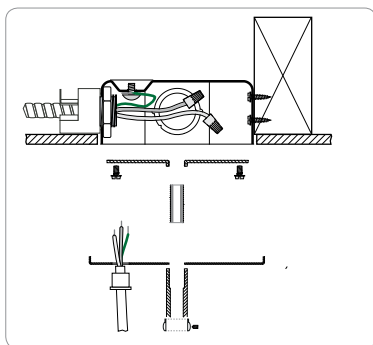
● MOUNTING OPTIONS



**CT** TILE CEILING - ON GRID



**CA** DRYWALL CEILING



**SA** STEM MOUNT IN DRYWALL CEILING

Mounting options are also available for slope ceiling and seismic bracing.

**i** Installation sheets for all mounting options are available at: [www.axislighting.com](http://www.axislighting.com)

● OTHER MOUNTING OPTIONS

101 is also available with surface and wall mounted options.

**i** Specification sheets for surface and wall mounted 101 luminaires are available for download at [www.axislighting.com](http://www.axislighting.com)

● CONSTRUCTION

|                                      |   |
|--------------------------------------|---|
| <b>End Cap</b>                       | Die cast zinc (0.100" nominal)                                      |
| <b>Side Profile</b>                  | Extruded aluminum (0.060" nominal)                                  |
| <b>Louvers</b>                       | Die formed semi-specular aluminum (22 gauge)                        |
| <b>Perforation / Slotted / Blank</b> | Cold rolled metal sheet (20 gauge) with powder painted custom color |
| <b>Baffles</b>                       | Die formed aluminum (22 gauge) powder painted white                 |
| <b>Satin</b>                         | PMMA 68% transmissive lens  |
| <b>Interior Brackets</b>             | Die formed sheet steel (12 gauge)                                   |
| <b>Hanger</b>                        | Aircraft cable Ø 1/16", Die cast                                    |
| <b>Suspension</b>                    | Aircraft cable or Ø 5/8" stem                                       |
| <b>Cable Grips</b>                   | Quick Connecting/release  |

● WEIGHT

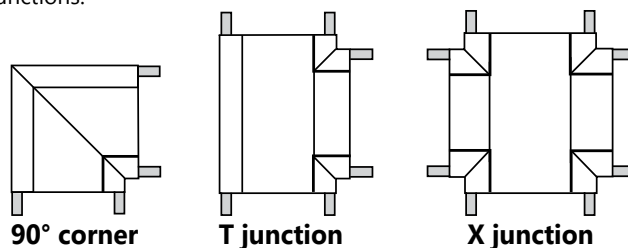
101 4 ft 12 lbs / 5.5 kg

101 8 ft 21 lbs / 9.4 kg

101 12 ft 33 lbs / 14.8 kg

● CORNER SPECIFICATION

In addition to individual pendants and linear runs, the 101 luminaire can be specified with 90 degree corner, T or X junctions.



All systems requiring corner units must be specified as such at the time of order. Existing linear systems or luminaires cannot have corners added at a later date.

**i** Specifications sheets for all corner specification are available at: [www.axislighting.com](http://www.axislighting.com)

● FINISH

Aluminium paint, Powder Coated and custom finishes are also available.

● ELECTRICAL

**Ballast** Electronic IS, Electronic Rapid Start, Dimming (0-10V, Line, EcoSystem, DALI), BI-level dimming  
 With preinstalled ballast disconnect as per NEC & CEC

**Emergency** Emergency battery pack or emergency circuit

**Voltage** 120V, 277V, 347V, UNV

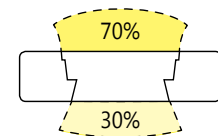
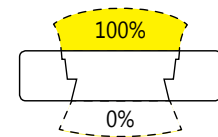
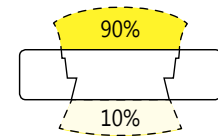
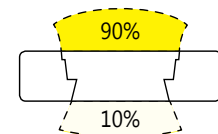
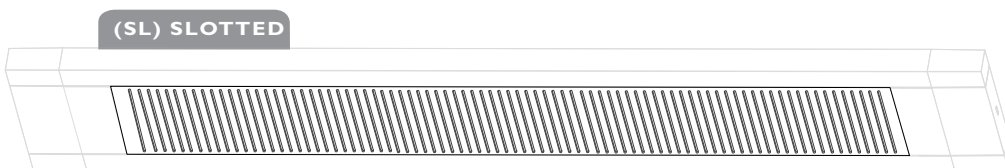
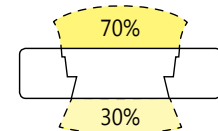
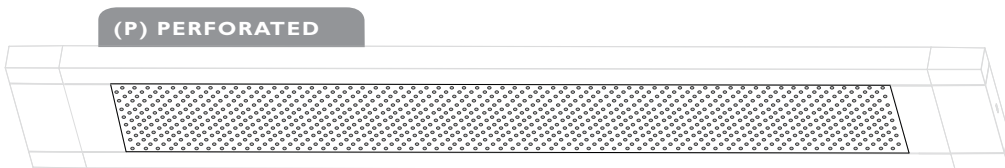
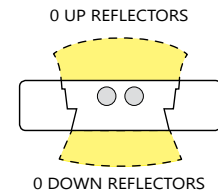
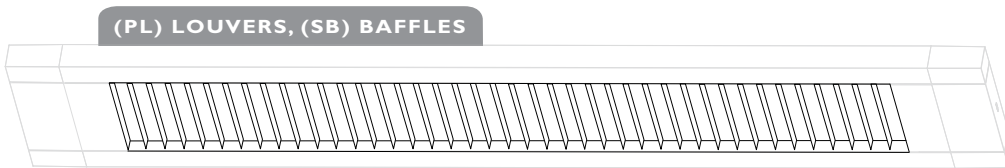
● APPROVALS

Certified to UL and CUL standards Meets NYC requirements Suitable for damp locations.

These luminaires were designed with field adjustable optic reflectors. The quantity of these uplight and downlight reflectors control the distribution of uplight / downlight and can be added after installation.

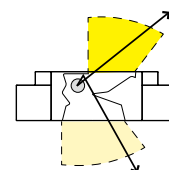
**i** IES files and specific Light Distribution for baffles and louvers are available at: [www.axislighting.com](http://www.axislighting.com)

**DISTRIBUTIONS ASSUME  
2 LAMPS**

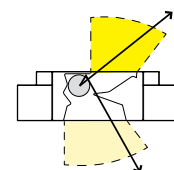


**● ASYMMETRIC SPECIFICATION**

For applications where asymmetric distribution is preferred we can use this option. However, this asymmetric distribution is NOT available with louvers or baffles, only for satin lens.



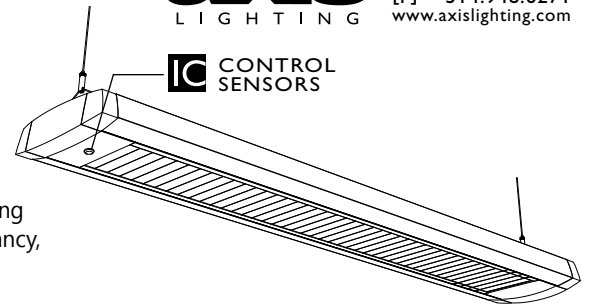
**1 X T5/T5HO lamp**



**1 X T8 lamp**

## ● INTEGRATED CONTROL OPTIONS

101 luminaires allow the use of integrated controls such as daylight sensors (DS), occupancy sensors (OS), individual daylight sensors and occupancy sensors (DS+OS), and combination daylight/occupancy sensors (DOS). These options can be seamlessly integrated into our luminaires. The control system could be used to optimize the lighting of the space by reducing energy consumption through daylight harvesting and occupancy, thereby improving the overall interior environment and allowing for LEED credits.

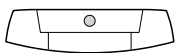


- Consult factory for other options.
- Refer to IC brochure for more information.

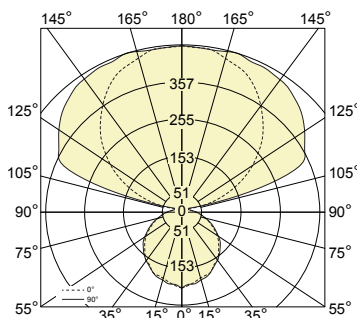
| SENSORS                            | BRAND       | Model     | TYPE                     | CODE | COMPATIBLE DIMMING BALLAST |
|------------------------------------|-------------|-----------|--------------------------|------|----------------------------|
| Daylight Sensor (DS)               | Lutron      | EC-DIR-WH | Daylight                 | LD   | EcoSystem                  |
|                                    | Wattstopper | FD-301    | Daylight                 | WD   | 0-10V                      |
|                                    | Philips     | Luxsense  | Daylight                 | PL   | 0-10V                      |
| Occupancy Sensor (OS)              | Wattstopper | FS-205    | PIR Occupancy            | WP1  | Programmed Rapid Start     |
|                                    |             | FS-355    | PIR Occupancy            | WP2  | Programmed Rapid Start     |
|                                    |             | FS-155    | PIR Occupancy            | WP3  | Programmed Rapid Start     |
|                                    |             | FS-505    | Ultrasonic Occupancy     | WU1  | Programmed Rapid Start     |
|                                    |             | FS-505C   | Ultrasonic Occupancy     | WU2  | Programmed Rapid Start     |
|                                    |             | FM-105    | High Frequency Occupancy | WH   | Programmed Rapid Start     |
| Daylight & Occupancy Sensors (DOS) | Philips     | Actilume  | Daylight & PIR Occupancy | PA   | DALI or 0-10V              |

## ● PHOTOMETRIC DATA

### I T5



### PHOTOMETRIC CURVE



**Test Lamp: 1x F28T5**

IES FILE: 101-S-4-T5-1-0-0-70-30

**Efficiency: 92.7%**

### CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |     |      |     | Zonal Lumens |
|----------------|-------------------|------|-----|------|-----|--------------|
|                | 0                 | 22.5 | 45  | 67.5 | 90  |              |
| 0              | 219               | 219  | 219 | 219  | 219 |              |
| 5              | 213               | 211  | 210 | 208  | 210 | 10           |
| 15             | 199               | 202  | 204 | 205  | 204 | 29           |
| 25             | 192               | 189  | 192 | 192  | 192 | 44           |
| 35             | 173               | 171  | 172 | 174  | 173 | 54           |
| 45             | 145               | 147  | 147 | 150  | 151 | 57           |
| 55             | 117               | 117  | 119 | 121  | 121 | 53           |
| 65             | 83                | 85   | 86  | 86   | 86  | 43           |
| 75             | 49                | 50   | 51  | 51   | 52  | 27           |
| 85             | 16                | 16   | 15  | 15   | 16  | 8            |
| 90             | 4                 | 3    | 3   | 3    | 3   |              |
| 95             | 32                | 44   | 23  | 18   | 18  | 15           |
| 105            | 102               | 158  | 235 | 233  | 221 | 104          |
| 115            | 181               | 228  | 300 | 353  | 376 | 144          |
| 125            | 254               | 290  | 350 | 396  | 413 | 154          |
| 135            | 319               | 344  | 389 | 426  | 439 | 149          |
| 145            | 373               | 388  | 418 | 439  | 451 | 130          |
| 155            | 416               | 422  | 438 | 452  | 451 | 101          |
| 165            | 437               | 441  | 450 | 455  | 452 | 64           |
| 175            | 449               | 446  | 449 | 457  | 450 | 22           |
| 180            | 452               | 452  | 452 | 452  | 452 |              |

### COEFFICIENTS OF UTILIZATION (%)

| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 94 | 94 | 94 | 94 | 84 | 84 | 84 | 84 | 65 | 65 | 65 |
| 1       | 86 | 82 | 78 | 74 | 76 | 73 | 70 | 66 | 57 | 55 | 52 |
| 2       | 78 | 71 | 66 | 59 | 69 | 64 | 59 | 53 | 50 | 46 | 42 |
| 3       | 71 | 62 | 56 | 48 | 63 | 56 | 50 | 44 | 44 | 40 | 35 |
| 4       | 65 | 55 | 48 | 40 | 57 | 49 | 43 | 36 | 39 | 34 | 29 |
| 5       | 59 | 49 | 41 | 34 | 53 | 44 | 37 | 31 | 34 | 30 | 25 |
| 6       | 54 | 43 | 36 | 29 | 48 | 39 | 33 | 26 | 31 | 26 | 21 |
| 7       | 50 | 39 | 32 | 25 | 45 | 35 | 29 | 23 | 28 | 23 | 18 |
| 8       | 46 | 35 | 28 | 22 | 41 | 32 | 26 | 20 | 25 | 21 | 16 |
| 9       | 43 | 32 | 25 | 19 | 38 | 29 | 23 | 17 | 23 | 18 | 14 |
| 10      | 40 | 29 | 23 | 17 | 36 | 26 | 21 | 15 | 21 | 17 | 13 |

Based on floor reflectance of 20

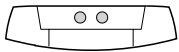
### LUMINANCE DATA (CD/M<sup>2</sup>)

| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 1205              | 1217 | 1251 |
| 55             | 1202              | 1213 | 1234 |
| 65             | 1158              | 1197 | 1201 |
| 75             | 1113              | 1163 | 1181 |
| 85             | 1072              | 1026 | 1054 |

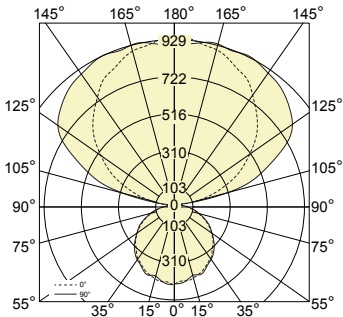
**i** All IES files for other lamping are available for download at: [www.axislighting.com](http://www.axislighting.com)

● PHOTOMETRIC DATA

2 T5



PHOTOMETRIC CURVE



Test Lamp: 2x**F28T5**  
 IES FILE: 101-S-4-T5-2-0-0-70-30

Efficiency: **91.6%**

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |     |      |     | Zonal Lumens |
|----------------|-------------------|------|-----|------|-----|--------------|
|                | 0                 | 22.5 | 45  | 67.5 | 90  |              |
| 0              | 442               | 442  | 442 | 442  | 442 |              |
| 5              | 428               | 434  | 424 | 435  | 439 | 21           |
| 15             | 419               | 417  | 419 | 416  | 407 | 59           |
| 25             | 390               | 392  | 396 | 390  | 398 | 91           |
| 35             | 353               | 349  | 354 | 360  | 360 | 112          |
| 45             | 299               | 300  | 307 | 305  | 308 | 118          |
| 55             | 240               | 239  | 245 | 245  | 244 | 109          |
| 65             | 170               | 174  | 175 | 177  | 177 | 87           |
| 75             | 98                | 103  | 103 | 104  | 105 | 54           |
| 85             | 32                | 32   | 29  | 29   | 32  | 17           |
| 90             | 8                 | 6    | 6   | 5    | 6   |              |
| 95             | 64                | 83   | 57  | 40   | 35  | 31           |
| 105            | 210               | 303  | 362 | 384  | 387 | 178          |
| 115            | 373               | 456  | 572 | 613  | 621 | 266          |
| 125            | 516               | 587  | 689 | 770  | 798 | 303          |
| 135            | 648               | 701  | 778 | 841  | 864 | 298          |
| 145            | 751               | 789  | 842 | 886  | 899 | 263          |
| 155            | 830               | 859  | 888 | 915  | 924 | 205          |
| 165            | 893               | 900  | 914 | 916  | 926 | 129          |
| 175            | 929               | 928  | 925 | 917  | 901 | 44           |
| 180            | 925               | 925  | 925 | 925  | 925 |              |

COEFFICIENTS OF UTILIZATION (%)

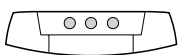
| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 93 | 93 | 93 | 84 | 84 | 84 | 84 | 65 | 65 | 65 | 48 |
| 1       | 81 | 77 | 73 | 76 | 72 | 70 | 66 | 57 | 55 | 52 | 42 |
| 2       | 70 | 65 | 58 | 69 | 63 | 59 | 53 | 49 | 46 | 42 | 37 |
| 3       | 62 | 55 | 48 | 62 | 55 | 50 | 43 | 43 | 39 | 35 | 32 |
| 4       | 54 | 47 | 40 | 57 | 49 | 43 | 36 | 38 | 34 | 29 | 29 |
| 5       | 48 | 41 | 33 | 52 | 43 | 37 | 31 | 34 | 30 | 25 | 26 |
| 6       | 43 | 36 | 29 | 48 | 39 | 32 | 26 | 31 | 26 | 21 | 23 |
| 7       | 39 | 32 | 25 | 44 | 35 | 29 | 22 | 28 | 23 | 18 | 21 |
| 8       | 35 | 28 | 21 | 41 | 31 | 25 | 20 | 25 | 20 | 16 | 19 |
| 9       | 32 | 25 | 19 | 38 | 29 | 23 | 17 | 23 | 18 | 14 | 17 |
| 10      | 29 | 22 | 17 | 35 | 26 | 20 | 15 | 21 | 17 | 13 | 16 |

Based on floor reflectance of 20

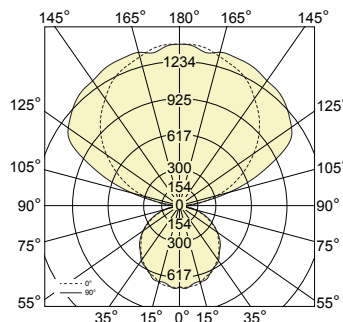
LUMINANCE DATA (CD/M<sup>2</sup>)

| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 2486              | 2551 | 2557 |
| 55             | 2459              | 2503 | 2493 |
| 65             | 2364              | 2426 | 2454 |
| 75             | 2226              | 2343 | 2388 |
| 85             | 2154              | 1982 | 2131 |

3 T5



PHOTOMETRIC CURVE



Test Lamp: 3x**F28T5**  
 IES FILE: 101-S-4-T5-3-0-0-70-30

Efficiency: **91.0%**

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |      |      |      | Zonal Lumens |
|----------------|-------------------|------|------|------|------|--------------|
|                | 0                 | 22.5 | 45   | 67.5 | 90   |              |
| 0              | 694               | 694  | 694  | 694  | 694  |              |
| 5              | 698               | 703  | 708  | 690  | 706  | 33           |
| 15             | 683               | 668  | 671  | 680  | 669  | 96           |
| 25             | 633               | 623  | 630  | 634  | 628  | 146          |
| 35             | 564               | 563  | 573  | 571  | 579  | 179          |
| 45             | 479               | 486  | 490  | 491  | 492  | 189          |
| 55             | 394               | 387  | 393  | 399  | 397  | 177          |
| 65             | 276               | 277  | 284  | 289  | 288  | 140          |
| 75             | 156               | 166  | 169  | 169  | 168  | 88           |
| 85             | 54                | 52   | 48   | 49   | 47   | 27           |
| 90             | 13                | 8    | 8    | 7    | 7    |              |
| 95             | 102               | 97   | 59   | 43   | 38   | 37           |
| 105            | 322               | 445  | 470  | 436  | 421  | 228          |
| 115            | 554               | 668  | 840  | 884  | 874  | 386          |
| 125            | 772               | 863  | 1013 | 1122 | 1171 | 446          |
| 135            | 968               | 1022 | 1137 | 1230 | 1268 | 437          |
| 145            | 1121              | 1158 | 1237 | 1303 | 1309 | 386          |
| 155            | 1254              | 1248 | 1299 | 1339 | 1355 | 301          |
| 165            | 1325              | 1330 | 1339 | 1347 | 1363 | 190          |
| 175            | 1388              | 1360 | 1371 | 1374 | 1375 | 66           |
| 180            | 1385              | 1385 | 1385 | 1385 | 1385 |              |

COEFFICIENTS OF UTILIZATION (%)

| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 93 | 93 | 93 | 93 | 84 | 84 | 84 | 84 | 66 | 66 | 66 |
| 1       | 85 | 81 | 77 | 73 | 76 | 73 | 70 | 66 | 57 | 55 | 53 |
| 2       | 77 | 70 | 65 | 58 | 69 | 63 | 59 | 53 | 50 | 47 | 43 |
| 3       | 70 | 62 | 55 | 48 | 63 | 55 | 50 | 43 | 44 | 40 | 35 |
| 4       | 64 | 54 | 47 | 40 | 57 | 49 | 43 | 36 | 39 | 34 | 29 |
| 5       | 58 | 48 | 41 | 33 | 52 | 43 | 37 | 31 | 34 | 30 | 25 |
| 6       | 54 | 43 | 36 | 28 | 48 | 39 | 33 | 26 | 31 | 26 | 21 |
| 7       | 50 | 39 | 31 | 25 | 44 | 35 | 29 | 23 | 28 | 23 | 19 |
| 8       | 46 | 35 | 28 | 21 | 41 | 32 | 25 | 20 | 25 | 21 | 16 |
| 9       | 43 | 32 | 25 | 19 | 38 | 29 | 23 | 17 | 23 | 19 | 14 |
| 10      | 40 | 29 | 22 | 17 | 35 | 26 | 21 | 15 | 21 | 17 | 13 |

Based on floor reflectance of 20

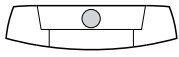
LUMINANCE DATA (CD/M<sup>2</sup>)

| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 3976              | 4067 | 4089 |
| 55             | 4035              | 4024 | 4063 |
| 65             | 3828              | 3944 | 3998 |
| 75             | 3537              | 3837 | 3803 |
| 85             | 3618              | 3257 | 3187 |

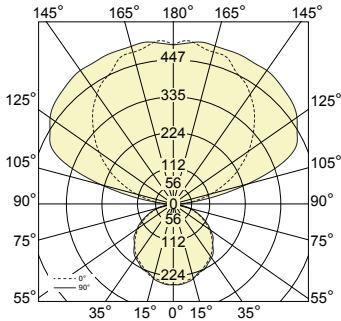
**i** All IES files for other lamping are available for download at: [www.axislighting.com](http://www.axislighting.com)

● PHOTOMETRIC DATA

**1 T8**



**PHOTOMETRIC CURVE**



**Test Lamp: 1x F32T8**  
 IES FILE: 101-S-4-T8-1-0-0-70-30

**Efficiency: 92.0%**

**CANDELA DISTRIBUTION**

| Vertical Angle | Horizontal Angles |      |     |      |     | Zonal Lumens |
|----------------|-------------------|------|-----|------|-----|--------------|
|                | 0                 | 22.5 | 45  | 67.5 | 90  |              |
| 0              | 245               | 245  | 245 | 245  | 245 |              |
| 5              | 244               | 237  | 241 | 241  | 246 | 12           |
| 15             | 232               | 229  | 234 | 233  | 235 | 33           |
| 25             | 215               | 216  | 217 | 215  | 220 | 50           |
| 35             | 196               | 195  | 196 | 198  | 201 | 62           |
| 45             | 168               | 168  | 167 | 169  | 169 | 65           |
| 55             | 134               | 134  | 135 | 137  | 138 | 61           |
| 65             | 94                | 95   | 99  | 99   | 99  | 48           |
| 75             | 54                | 57   | 58  | 58   | 58  | 30           |
| 85             | 18                | 17   | 18  | 17   | 17  | 9            |
| 90             | 5                 | 4    | 3   | 3    | 3   |              |
| 95             | 36                | 49   | 34  | 27   | 23  | 19           |
| 105            | 114               | 176  | 234 | 230  | 224 | 107          |
| 115            | 199               | 250  | 330 | 389  | 411 | 158          |
| 125            | 278               | 319  | 387 | 440  | 460 | 170          |
| 135            | 349               | 376  | 427 | 470  | 485 | 164          |
| 145            | 409               | 429  | 457 | 486  | 499 | 144          |
| 155            | 448               | 462  | 481 | 493  | 500 | 111          |
| 165            | 481               | 488  | 495 | 495  | 500 | 70           |
| 175            | 502               | 489  | 500 | 489  | 495 | 24           |
| 180            | 487               | 487  | 487 | 487  | 487 |              |

**COEFFICIENTS OF UTILIZATION (%)**

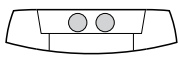
| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 94 | 94 | 94 | 94 | 84 | 84 | 84 | 84 | 65 | 65 | 65 |
| 1       | 85 | 81 | 78 | 73 | 76 | 73 | 70 | 66 | 57 | 55 | 52 |
| 2       | 77 | 71 | 65 | 59 | 69 | 63 | 59 | 53 | 50 | 46 | 42 |
| 3       | 70 | 62 | 55 | 48 | 63 | 56 | 50 | 44 | 43 | 40 | 35 |
| 4       | 64 | 55 | 48 | 40 | 57 | 49 | 43 | 36 | 38 | 34 | 29 |
| 5       | 59 | 48 | 41 | 34 | 52 | 44 | 37 | 31 | 34 | 30 | 25 |
| 6       | 54 | 43 | 36 | 29 | 48 | 39 | 33 | 26 | 31 | 26 | 21 |
| 7       | 50 | 39 | 32 | 25 | 44 | 35 | 29 | 23 | 28 | 23 | 18 |
| 8       | 46 | 35 | 28 | 21 | 41 | 32 | 26 | 20 | 25 | 21 | 16 |
| 9       | 43 | 32 | 25 | 19 | 38 | 29 | 23 | 17 | 23 | 18 | 14 |
| 10      | 40 | 29 | 23 | 17 | 36 | 26 | 21 | 15 | 21 | 17 | 13 |

Based on floor reflectance of 20

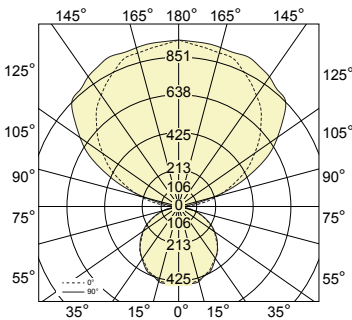
**LUMINANCE DATA (CD/M<sup>2</sup>)**

| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 1391              | 1390 | 1406 |
| 55             | 1368              | 1382 | 1415 |
| 65             | 1305              | 1372 | 1376 |
| 75             | 1225              | 1306 | 1324 |
| 85             | 1202              | 1186 | 1155 |

**2 T8**



**PHOTOMETRIC CURVE**



**Test Lamp: 2x F32T8**  
 IES FILE: 101-S-4-T8-2-0-0-70-30

**Efficiency: 90.4%**

**CANDELA DISTRIBUTION**

| Vertical Angle | Horizontal Angles |      |      |      |      | Zonal Lumens |
|----------------|-------------------|------|------|------|------|--------------|
|                | 0                 | 22.5 | 45   | 67.5 | 90   |              |
| 0              | 503               | 503  | 503  | 503  | 503  |              |
| 5              | 500               | 499  | 510  | 505  | 537  | 24           |
| 15             | 488               | 500  | 488  | 494  | 497  | 70           |
| 25             | 460               | 459  | 458  | 462  | 460  | 107          |
| 35             | 408               | 410  | 414  | 420  | 413  | 130          |
| 45             | 352               | 355  | 354  | 360  | 358  | 138          |
| 55             | 280               | 280  | 287  | 289  | 289  | 128          |
| 65             | 197               | 204  | 204  | 206  | 208  | 102          |
| 75             | 113               | 120  | 122  | 121  | 124  | 64           |
| 85             | 38                | 36   | 36   | 36   | 34   | 20           |
| 90             | 10                | 7    | 6    | 6    | 5    |              |
| 95             | 74                | 80   | 64   | 54   | 49   | 35           |
| 105            | 234               | 322  | 357  | 349  | 343  | 174          |
| 115            | 408               | 498  | 595  | 632  | 644  | 280          |
| 125            | 572               | 640  | 754  | 834  | 847  | 330          |
| 135            | 709               | 763  | 857  | 919  | 944  | 326          |
| 145            | 828               | 865  | 920  | 971  | 995  | 288          |
| 155            | 914               | 937  | 971  | 992  | 1005 | 223          |
| 165            | 983               | 981  | 1006 | 1008 | 1022 | 142          |
| 175            | 1010              | 1004 | 1012 | 1013 | 1015 | 48           |
| 180            | 1024              | 1024 | 1024 | 1024 | 1024 |              |

**COEFFICIENTS OF UTILIZATION (%)**

| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 93 | 93 | 93 | 93 | 83 | 83 | 83 | 83 | 65 | 65 | 65 |
| 1       | 84 | 80 | 77 | 72 | 75 | 72 | 69 | 65 | 57 | 55 | 52 |
| 2       | 77 | 70 | 64 | 58 | 68 | 63 | 58 | 53 | 49 | 46 | 42 |
| 3       | 70 | 61 | 55 | 47 | 62 | 55 | 50 | 43 | 43 | 40 | 35 |
| 4       | 64 | 54 | 47 | 39 | 57 | 49 | 43 | 36 | 38 | 34 | 29 |
| 5       | 58 | 48 | 41 | 33 | 52 | 43 | 37 | 30 | 34 | 30 | 25 |
| 6       | 53 | 43 | 36 | 28 | 48 | 39 | 32 | 26 | 31 | 26 | 21 |
| 7       | 49 | 38 | 31 | 24 | 44 | 35 | 29 | 22 | 28 | 23 | 18 |
| 8       | 46 | 35 | 28 | 21 | 41 | 31 | 25 | 20 | 25 | 21 | 16 |
| 9       | 42 | 31 | 25 | 19 | 38 | 28 | 23 | 17 | 23 | 18 | 14 |
| 10      | 39 | 29 | 22 | 16 | 35 | 26 | 20 | 15 | 21 | 17 | 13 |

Based on floor reflectance of 20

**LUMINANCE DATA (CD/M<sup>2</sup>)**

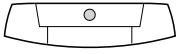
| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 2919              | 2941 | 2977 |
| 55             | 2864              | 2940 | 2959 |
| 65             | 2742              | 2836 | 2889 |
| 75             | 2554              | 2765 | 2805 |
| 85             | 2546              | 2426 | 2277 |

**i** All IES files for other lamping are available for download at: [www.axislighting.com](http://www.axislighting.com)

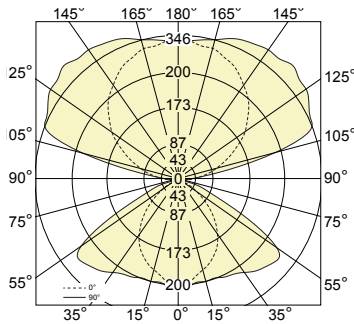


● PHOTOMETRIC DATA

1 T5



PHOTOMETRIC CURVE



Test Lamp: 1x F28T5  
 IES FILE: 101-PL-4-T5-1-0-0-70-30

Efficiency: 84.3%

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |     |      |     | Zonal Lumens |
|----------------|-------------------|------|-----|------|-----|--------------|
|                | 0                 | 22.5 | 45  | 67.5 | 90  |              |
| 0              | 248               | 248  | 248 | 248  | 248 |              |
| 5              | 249               | 247  | 241 | 249  | 257 | 12           |
| 15             | 223               | 229  | 239 | 245  | 251 | 34           |
| 25             | 200               | 209  | 223 | 245  | 257 | 52           |
| 35             | 164               | 179  | 205 | 238  | 270 | 66           |
| 45             | 116               | 135  | 180 | 239  | 294 | 73           |
| 55             | 67                | 82   | 130 | 217  | 293 | 68           |
| 65             | 31                | 38   | 57  | 88   | 118 | 32           |
| 75             | 10                | 13   | 19  | 27   | 49  | 12           |
| 85             | 1                 | 2    | 3   | 5    | 9   | 2            |
| 90             | 2                 | 1    | 2   | 2    | 2   |              |
| 95             | 32                | 41   | 21  | 17   | 16  | 14           |
| 105            | 83                | 146  | 223 | 223  | 212 | 98           |
| 115            | 135               | 195  | 274 | 329  | 350 | 129          |
| 125            | 193               | 237  | 308 | 354  | 376 | 133          |
| 135            | 239               | 275  | 326 | 368  | 389 | 124          |
| 145            | 275               | 298  | 341 | 367  | 381 | 105          |
| 155            | 307               | 317  | 344 | 361  | 371 | 79           |
| 165            | 327               | 327  | 342 | 353  | 350 | 48           |
| 175            | 335               | 329  | 341 | 330  | 337 | 16           |
| 180            | 340               | 340  | 340 | 340  | 340 |              |

COEFFICIENTS OF UTILIZATION (%)

| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 87 | 87 | 87 | 87 | 78 | 78 | 78 | 78 | 62 | 62 | 62 |
| 1       | 79 | 76 | 73 | 69 | 71 | 68 | 66 | 62 | 55 | 53 | 50 |
| 2       | 72 | 66 | 62 | 56 | 65 | 60 | 56 | 51 | 48 | 45 | 41 |
| 3       | 66 | 58 | 53 | 46 | 59 | 53 | 48 | 42 | 42 | 39 | 35 |
| 4       | 60 | 52 | 45 | 38 | 54 | 47 | 41 | 35 | 37 | 34 | 29 |
| 5       | 55 | 46 | 39 | 32 | 50 | 41 | 36 | 30 | 33 | 29 | 25 |
| 6       | 51 | 41 | 34 | 28 | 45 | 37 | 31 | 26 | 30 | 26 | 21 |
| 7       | 47 | 37 | 30 | 24 | 42 | 33 | 28 | 22 | 27 | 23 | 18 |
| 8       | 43 | 33 | 27 | 21 | 39 | 30 | 25 | 19 | 24 | 20 | 16 |
| 9       | 40 | 30 | 24 | 18 | 36 | 27 | 22 | 17 | 22 | 18 | 14 |
| 10      | 37 | 27 | 22 | 16 | 34 | 25 | 20 | 15 | 20 | 16 | 13 |

Based on floor reflectance of 20

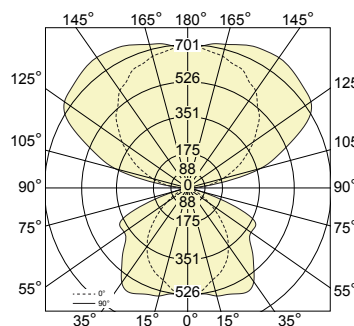
LUMINANCE DATA (CD/M<sup>2</sup>)

| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 1217              | 1885 | 3086 |
| 55             | 862               | 1686 | 3786 |
| 65             | 543               | 992  | 2078 |
| 75             | 286               | 531  | 1403 |
| 85             | 121               | 268  | 768  |

2 T5



PHOTOMETRIC CURVE



Test Lamp: 2x F28T5  
 IES FILE: 101-PL-4-T5-2-0-0-70-30

Efficiency: 83.3%

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |     |      |     | Zonal Lumens |
|----------------|-------------------|------|-----|------|-----|--------------|
|                | 0                 | 22.5 | 45  | 67.5 | 90  |              |
| 0              | 528               | 528  | 528 | 528  | 528 |              |
| 5              | 526               | 527  | 526 | 522  | 528 | 25           |
| 15             | 470               | 485  | 510 | 521  | 552 | 72           |
| 25             | 426               | 437  | 477 | 541  | 576 | 113          |
| 35             | 350               | 377  | 446 | 514  | 569 | 141          |
| 45             | 242               | 278  | 361 | 403  | 454 | 135          |
| 55             | 135               | 158  | 215 | 295  | 382 | 104          |
| 65             | 60                | 73   | 105 | 204  | 353 | 73           |
| 75             | 20                | 25   | 37  | 54   | 90  | 23           |
| 85             | 3                 | 4    | 6   | 10   | 15  | 4            |
| 90             | 3                 | 3    | 3   | 4    | 5   |              |
| 95             | 63                | 79   | 54  | 38   | 32  | 30           |
| 105            | 176               | 283  | 340 | 363  | 367 | 166          |
| 115            | 287               | 393  | 537 | 580  | 581 | 241          |
| 125            | 396               | 498  | 614 | 708  | 745 | 268          |
| 135            | 501               | 572  | 672 | 744  | 770 | 254          |
| 145            | 587               | 627  | 710 | 770  | 789 | 220          |
| 155            | 645               | 668  | 722 | 757  | 774 | 165          |
| 165            | 675               | 690  | 717 | 735  | 737 | 101          |
| 175            | 698               | 675  | 697 | 716  | 704 | 33           |
| 180            | 693               | 693  | 693 | 693  | 693 |              |

COEFFICIENTS OF UTILIZATION (%)

| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 86 | 86 | 86 | 86 | 77 | 77 | 77 | 77 | 61 | 61 | 61 |
| 1       | 78 | 75 | 72 | 68 | 70 | 68 | 65 | 62 | 54 | 52 | 50 |
| 2       | 72 | 66 | 61 | 55 | 64 | 59 | 55 | 50 | 47 | 45 | 41 |
| 3       | 65 | 58 | 52 | 46 | 59 | 52 | 47 | 42 | 42 | 38 | 34 |
| 4       | 60 | 51 | 45 | 38 | 54 | 46 | 41 | 35 | 37 | 33 | 29 |
| 5       | 55 | 46 | 39 | 32 | 49 | 41 | 36 | 30 | 33 | 29 | 25 |
| 6       | 50 | 41 | 34 | 28 | 45 | 37 | 31 | 26 | 30 | 26 | 21 |
| 7       | 46 | 37 | 30 | 24 | 42 | 33 | 28 | 22 | 27 | 23 | 19 |
| 8       | 43 | 33 | 27 | 21 | 39 | 30 | 25 | 19 | 24 | 20 | 16 |
| 9       | 40 | 30 | 24 | 18 | 36 | 27 | 22 | 17 | 22 | 18 | 14 |
| 10      | 37 | 28 | 22 | 16 | 34 | 25 | 20 | 15 | 21 | 17 | 13 |

Based on floor reflectance of 20

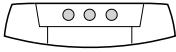
LUMINANCE DATA (CD/M<sup>2</sup>)

| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 2538              | 3789 | 4764 |
| 55             | 1747              | 2779 | 4935 |
| 65             | 1060              | 1844 | 6197 |
| 75             | 581               | 1069 | 2579 |
| 85             | 237               | 502  | 1281 |

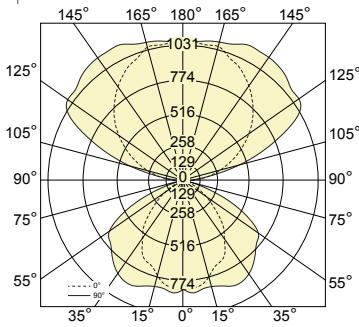
**i** All IES files for other lamping are available for download at: [www.axislighting.com](http://www.axislighting.com)

● PHOTOMETRIC DATA

3 T5



PHOTOMETRIC CURVE



Test Lamp: 3xT5

IES FILE: 101-PL-4-T5-3-0-0-70-30

Efficiency: 83.2%

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |      |      |      | Zonal Lumens |
|----------------|-------------------|------|------|------|------|--------------|
|                | 0                 | 22.5 | 45   | 67.5 | 90   |              |
| 0              | 837               | 837  | 837  | 837  | 837  |              |
| 5              | 829               | 846  | 834  | 842  | 867  | 40           |
| 15             | 763               | 766  | 791  | 830  | 844  | 113          |
| 25             | 683               | 692  | 753  | 841  | 895  | 178          |
| 35             | 549               | 607  | 698  | 814  | 878  | 223          |
| 45             | 390               | 447  | 571  | 673  | 784  | 221          |
| 55             | 220               | 255  | 362  | 522  | 705  | 180          |
| 65             | 99                | 117  | 164  | 281  | 427  | 102          |
| 75             | 31                | 40   | 56   | 76   | 119  | 33           |
| 85             | 5                 | 6    | 9    | 14   | 24   | 6            |
| 90             | 5                 | 3    | 4    | 5    | 6    |              |
| 95             | 98                | 90   | 55   | 38   | 32   | 34           |
| 105            | 271               | 413  | 452  | 421  | 402  | 215          |
| 115            | 442               | 591  | 782  | 844  | 835  | 355          |
| 125            | 608               | 731  | 905  | 1027 | 1092 | 394          |
| 135            | 759               | 846  | 996  | 1093 | 1125 | 376          |
| 145            | 884               | 943  | 1060 | 1126 | 1159 | 326          |
| 155            | 986               | 1014 | 1085 | 1128 | 1160 | 249          |
| 165            | 1071              | 1050 | 1079 | 1085 | 1108 | 153          |
| 175            | 1076              | 1053 | 1076 | 1079 | 1082 | 51           |
| 180            | 1101              | 1101 | 1101 | 1101 | 1101 |              |

COEFFICIENTS OF UTILIZATION (%)

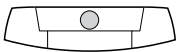
| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 86 | 86 | 86 | 86 | 78 | 78 | 78 | 78 | 62 | 62 | 62 |
| 1       | 79 | 75 | 72 | 68 | 71 | 68 | 66 | 62 | 55 | 53 | 51 |
| 2       | 72 | 66 | 61 | 55 | 65 | 60 | 56 | 51 | 48 | 45 | 42 |
| 3       | 66 | 58 | 52 | 46 | 59 | 53 | 48 | 42 | 43 | 39 | 35 |
| 4       | 60 | 51 | 45 | 38 | 54 | 47 | 41 | 35 | 38 | 34 | 30 |
| 5       | 55 | 46 | 39 | 33 | 49 | 42 | 36 | 30 | 34 | 30 | 25 |
| 6       | 51 | 41 | 34 | 28 | 46 | 37 | 32 | 26 | 30 | 26 | 22 |
| 7       | 47 | 37 | 30 | 24 | 42 | 34 | 28 | 22 | 27 | 23 | 19 |
| 8       | 43 | 33 | 27 | 21 | 39 | 30 | 25 | 20 | 25 | 21 | 17 |
| 9       | 40 | 30 | 24 | 19 | 36 | 28 | 22 | 17 | 23 | 19 | 15 |
| 10      | 37 | 28 | 22 | 16 | 34 | 25 | 20 | 15 | 21 | 17 | 13 |

Based on floor reflectance of 20

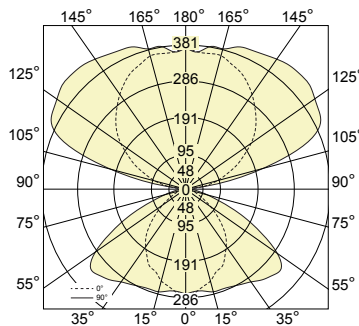
LUMINANCE DATA (CD/M<sup>2</sup>)

| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 4086              | 5993 | 8222 |
| 55             | 2838              | 4686 | 9120 |
| 65             | 1735              | 2870 | 7489 |
| 75             | 886               | 1601 | 3404 |
| 85             | 409               | 807  | 2058 |

1 T8



PHOTOMETRIC CURVE



Test Lamp: 1xT8

IES FILE: 101-PL-4-T8-1-0-0-70-30

Efficiency: 83.6%

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |     |      |     | Zonal Lumens |
|----------------|-------------------|------|-----|------|-----|--------------|
|                | 0                 | 22.5 | 45  | 67.5 | 90  |              |
| 0              | 279               | 279  | 279 | 279  | 279 |              |
| 5              | 276               | 272  | 271 | 277  | 273 | 13           |
| 15             | 253               | 254  | 257 | 269  | 283 | 37           |
| 25             | 227               | 234  | 246 | 269  | 286 | 58           |
| 35             | 186               | 200  | 231 | 268  | 302 | 74           |
| 45             | 135               | 154  | 204 | 266  | 325 | 83           |
| 55             | 76                | 93   | 145 | 225  | 294 | 73           |
| 65             | 35                | 43   | 65  | 105  | 158 | 38           |
| 75             | 11                | 14   | 21  | 29   | 52  | 13           |
| 85             | 2                 | 2    | 4   | 6    | 10  | 2            |
| 90             | 2                 | 2    | 2   | 2    | 2   |              |
| 95             | 36                | 46   | 33  | 24   | 22  | 18           |
| 105            | 90                | 160  | 225 | 223  | 217 | 101          |
| 115            | 149               | 211  | 307 | 367  | 391 | 144          |
| 125            | 211               | 260  | 338 | 400  | 417 | 147          |
| 135            | 263               | 300  | 357 | 409  | 429 | 137          |
| 145            | 305               | 333  | 375 | 405  | 419 | 116          |
| 155            | 341               | 355  | 376 | 399  | 406 | 87           |
| 165            | 365               | 369  | 380 | 388  | 384 | 54           |
| 175            | 364               | 374  | 373 | 389  | 364 | 18           |
| 180            | 374               | 374  | 374 | 374  | 374 |              |

COEFFICIENTS OF UTILIZATION (%)

| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 86 | 86 | 86 | 86 | 77 | 77 | 77 | 77 | 61 | 61 | 61 |
| 1       | 79 | 75 | 72 | 68 | 71 | 68 | 65 | 62 | 54 | 52 | 50 |
| 2       | 72 | 66 | 61 | 55 | 64 | 59 | 55 | 50 | 48 | 45 | 41 |
| 3       | 65 | 58 | 52 | 45 | 59 | 52 | 47 | 42 | 42 | 38 | 34 |
| 4       | 60 | 51 | 45 | 38 | 54 | 46 | 41 | 35 | 37 | 33 | 29 |
| 5       | 55 | 45 | 39 | 32 | 49 | 41 | 35 | 30 | 33 | 29 | 25 |
| 6       | 50 | 41 | 34 | 27 | 45 | 37 | 31 | 25 | 30 | 25 | 21 |
| 7       | 46 | 36 | 30 | 24 | 42 | 33 | 27 | 22 | 27 | 23 | 18 |
| 8       | 43 | 33 | 27 | 21 | 39 | 30 | 24 | 19 | 24 | 20 | 16 |
| 9       | 40 | 30 | 24 | 18 | 36 | 27 | 22 | 17 | 22 | 18 | 14 |
| 10      | 37 | 27 | 21 | 16 | 33 | 25 | 20 | 15 | 20 | 16 | 13 |

Based on floor reflectance of 20

LUMINANCE DATA (CD/M<sup>2</sup>)

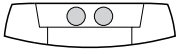
| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 1412              | 2143 | 3409 |
| 55             | 984               | 1869 | 3795 |
| 65             | 612               | 1133 | 2767 |
| 75             | 325               | 614  | 1501 |
| 85             | 128               | 300  | 865  |

**i** All IES files for other lamping are available for download at: [www.axislighting.com](http://www.axislighting.com)

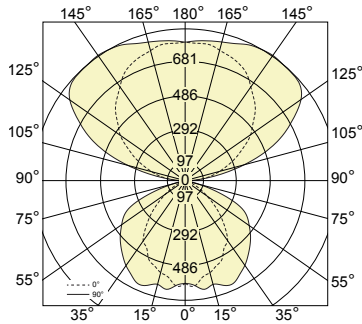


● PHOTOMETRIC DATA

2 T8



PHOTOMETRIC CURVE



Test Lamp: 2xF32T8  
 IES FILE: 101-PL-4-T8-2-0-0-70-30

Efficiency: 82.4%

CANDELA DISTRIBUTION

| Vertical Angle | Horizontal Angles |      |     |      |     | Zonal Lumens |
|----------------|-------------------|------|-----|------|-----|--------------|
|                | 0                 | 22.5 | 45  | 67.5 | 90  |              |
| 0              | 585               | 585  | 585 | 585  | 585 |              |
| 5              | 603               | 589  | 591 | 606  | 599 | 29           |
| 15             | 543               | 542  | 572 | 608  | 612 | 82           |
| 25             | 495               | 510  | 550 | 604  | 647 | 129          |
| 35             | 420               | 434  | 491 | 539  | 591 | 155          |
| 45             | 288               | 326  | 394 | 451  | 522 | 153          |
| 55             | 155               | 183  | 254 | 351  | 446 | 122          |
| 65             | 69                | 85   | 120 | 217  | 344 | 78           |
| 75             | 23                | 29   | 43  | 61   | 109 | 26           |
| 85             | 3                 | 5    | 7   | 11   | 18  | 5            |
| 90             | 5                 | 3    | 3   | 4    | 4   |              |
| 95             | 70                | 76   | 63  | 51   | 48  | 34           |
| 105            | 195               | 299  | 345 | 333  | 334 | 164          |
| 115            | 320               | 442  | 564 | 604  | 612 | 258          |
| 125            | 454               | 542  | 691 | 782  | 807 | 297          |
| 135            | 565               | 633  | 747 | 833  | 867 | 284          |
| 145            | 654               | 704  | 778 | 845  | 876 | 243          |
| 155            | 736               | 761  | 801 | 840  | 859 | 185          |
| 165            | 772               | 778  | 807 | 822  | 823 | 114          |
| 175            | 791               | 801  | 793 | 808  | 805 | 38           |
| 180            | 794               | 794  | 794 | 794  | 794 |              |

COEFFICIENTS OF UTILIZATION (%)

| Ceiling | 80 |    |    | 70 |    |    | 50 |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|
|         | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| Wall    | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0       | 85 | 85 | 85 | 85 | 77 | 77 | 77 | 77 | 61 | 61 | 61 |
| 1       | 78 | 74 | 71 | 67 | 70 | 67 | 65 | 61 | 54 | 52 | 50 |
| 2       | 71 | 65 | 60 | 55 | 64 | 59 | 55 | 50 | 47 | 44 | 41 |
| 3       | 65 | 57 | 52 | 45 | 58 | 52 | 47 | 41 | 42 | 38 | 34 |
| 4       | 59 | 51 | 45 | 38 | 53 | 46 | 41 | 35 | 37 | 33 | 29 |
| 5       | 54 | 45 | 39 | 32 | 49 | 41 | 35 | 30 | 33 | 29 | 25 |
| 6       | 50 | 40 | 34 | 28 | 45 | 37 | 31 | 25 | 30 | 26 | 21 |
| 7       | 46 | 36 | 30 | 24 | 41 | 33 | 28 | 22 | 27 | 23 | 19 |
| 8       | 43 | 33 | 27 | 21 | 38 | 30 | 25 | 19 | 24 | 20 | 16 |
| 9       | 40 | 30 | 24 | 18 | 36 | 27 | 22 | 17 | 22 | 18 | 14 |
| 10      | 37 | 27 | 22 | 16 | 33 | 25 | 20 | 15 | 20 | 17 | 13 |

Based on floor reflectance of 20

LUMINANCE DATA (CD/M<sup>2</sup>)

| Vertical Angle | Horizontal Angles |      |      |
|----------------|-------------------|------|------|
|                | 0                 | 45   | 90   |
| 45             | 3020              | 4137 | 5479 |
| 55             | 2006              | 3283 | 5766 |
| 65             | 1209              | 2109 | 6044 |
| 75             | 673               | 1223 | 3127 |
| 85             | 282               | 596  | 1519 |

**i** All IES files for other lamping are available for download at: [www.axislighting.com](http://www.axislighting.com)