

● **PROJECT INFORMATION**

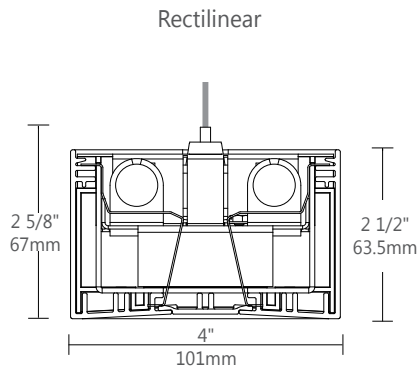
Project:

Type:

Notes:

● **DIMENSIONS**

END VIEW



● **ORDERING CODE**

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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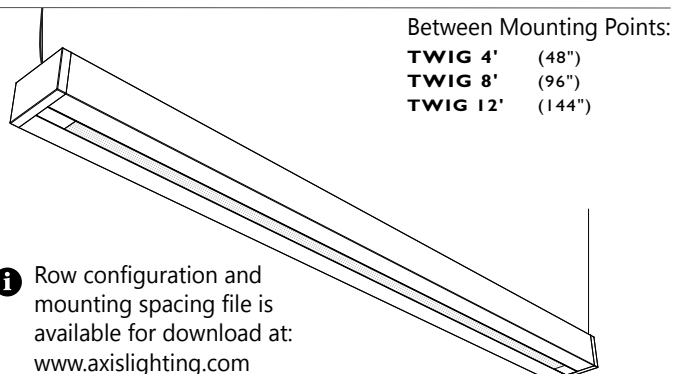
● **PRODUCT SPECIFICATIONS**

1	PRODUCT ID	2	OPTICS	3	LENGTH/FT	4	LAMP	5	LAMP CONFIGURATION	6	FINISH	7	VOLTAGE
TWR	rectilinear pendant	VL	vl optic	4	4'	T5	T5	1	1 lamp	AP	aluminum paint	120	120V
		S	satin lens	8	8'	T5HO	T5HO	2	2 lamps	W	white	277	277V
				12	12'			3	3 lamps	BLK	black	347	347V ⁽¹⁾
				S#	System Run					C	custom	UNV	universal
													(1) Consult factory

8	BALLAST	9	CIRCUITS	10	MOUNTING/SUSPENSION	11	BATTERY	12	OTHER
D	dimming	1	1 regular	CA#	drywall+cable length (36" std.)	B#	battery pack 4' sections	D	dust cover
E	instant start ⁽²⁾	2	2 regular	CT9-#	TB/TG 9/16+cable length (36" std.)			F	fuse
ERS	program start	2A/B	2 alternating	CT15-#	TB/TG15/16+cable length (36" std.)				
BI	bi-level dimming	+E(#)	emergency section	CTS#	ST+cable length (36" std.)				
		+NL(#)	night light section	SA#	drywall+stem length >48" (18" std.)				
		+GTD(#)	generator transfer device						
(2) Available with T8 lamp only						Requires 120V or 277V			

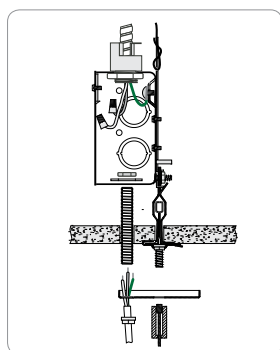
13	IC CONTROLS	14	CUSTOM
DS#	daylight sensor	C	custom
OS#	occupancy sensor		
DS+OS#	daylight+occupancy sensor		
DOS#	daylight&occupancy sensor		
See integrated controls guide for further details		Please specify	

● **SUSPENSION / MOUNTING SPACING**



i Row configuration and mounting spacing file is available for download at: www.axislighting.com

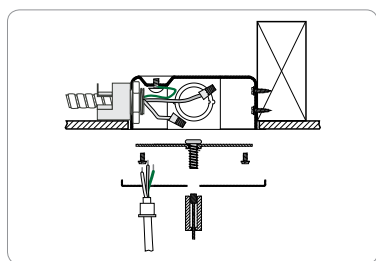
● **MOUNTING OPTIONS**



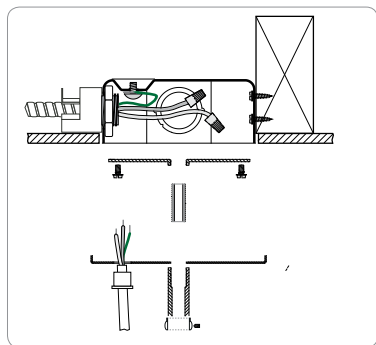
CT **TILE CEILING - ON GRID**

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

i Installation sheets for all mounting options are available at: www.axislighting.com



CA **DRYWALL CEILING**



SA **STEM MOUNT IN DRYWALL CEILING**

● **SYSTEMS (S#)**

Runs of TWIG that are greater than 12ft in length are designated as systems (S#). This means that the run is comprised of a combination 4ft, 8ft and/or 12ft sections to be assembled on site using our joining system. For more information on systems and joining, please refer to the TWIG installation sheets available for download at www.axislighting.com

● **OTHER MOUNTING OPTIONS**

TWIG is also available with a wall mounted option.

i Specification sheets for wall mounted TWIG luminaires are available for download at www.axislighting.com

● **FINISH**

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

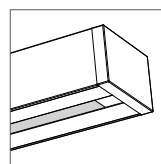
● **CONSTRUCTION**

Housing	Extruded aluminium (0.075" nominal)
End Cap	Die cast zinc (0.10" nominal)
Joiners	Die cast zinc (0.10" nominal)
Interior Brackets	Die formed cold rolled sheet steel (16 gauge)
Reflectors	Die formed specular aluminum (0.020" nominal)
Satin lens	PMMA satin finish (0.060" nominal) 68% trans.
VL^{opti}	Acrylic 92% transmissive lens

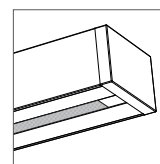
● **WEIGHT**

	RECTILINEAR
TWIG 4 ft	9.6lbs / 4.4kg
TWIG 8 ft	19.2lbs / 8.7kg
TWIG 12 ft	28.8lbs / 13.0kg

● **OPTICAL OPTIONS**



S satin lens



VL vl optic

● **LIGHT DISTRIBUTION**



semi-indirect


● **ELECTRICAL**

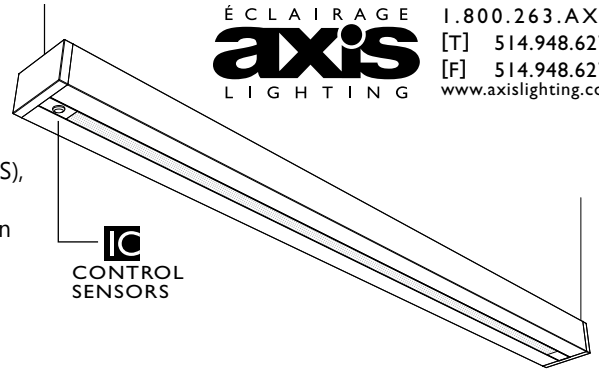
Ballast Electronic IS, Electronic Rapid Start, Dimming (0-10V, Line, EcoSystem, DALI), BI-level dimming
 With preinstalled ballast disconnect as per NEC & CEC

Emergency Emergency battery pack or emergency circuit

Voltage 120V, 277V, 347V, UNV

● **APPROVALS**

Certified to UL and CUL standards 
 Suitable for damp locations.



● **INTEGRATED CONTROL OPTIONS**

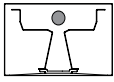
TWIG luminaires allow the use of integrated controls such as daylight sensors (DS), occupancy sensors (OS), individual daylight sensors and occupancy sensors (DS+OS), and combination daylight/occupancy sensors (DOS). These options can be seamlessly integrated into our luminaires. The control system could 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.

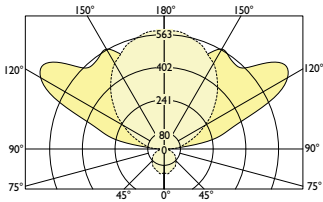
SENSORS	BRAND	Model	TYPE	CODE	COMPATIBLE DIMMING BALLAST
Daylight Sensor (DS)	Lutron	EC-DIR-WH	Daylight	LD	EcoSystem
	Wattstopper	FD-301	Daylight	WD	0-10V
	Philips	Luxsense	Daylight	PL	0-10V
Occupancy Sensor (OS)	Wattstopper	FS-205	PIR Occupancy	WP1	Programmed Rapid Start
		FS-355	PIR Occupancy	WP2	Programmed Rapid Start
		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

TWR 1 T5



PHOTOMETRIC CURVE



Test Lamp: 1xF28T5

IES FILE: TWR-S-4-T5-1.ies

Efficiency: 91.1%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	118	118	118	118	118	
5	121	125	123	122	117	7
15	115	112	110	107	106	27
25	106	105	98	94	89	43
35	97	93	82	79	75	52
45	82	73	67	64	63	54
55	68	57	53	49	46	51
65	52	40	35	33	31	40
75	30	22	18	16	16	25
85	10	9	6	3	2	10
90	17	16	8	3	2	
95	66	91	84	69	61	47
105	117	258	307	303	311	246
115	191	285	518	598	596	407
125	279	329	465	660	723	450
135	366	373	473	525	564	375
145	449	406	485	548	555	318
155	511	466	458	497	518	247
165	558	523	500	482	473	163
175	583	577	578	548	548	78
180	575	575	575	575	575	

COEFFICIENTS OF UTILIZATION (%)

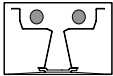
Ceiling	80			70			50				
	70	50	30	10	70	50	30	10	50	30	10
Wall	70	50	30	10	70	50	30	10	50	30	10
0	89	89	89	89	78	78	78	78	57	57	57
1	81	78	74	71	71	68	65	63	49	48	46
2	74	68	63	58	64	59	55	51	43	40	38
3	67	59	53	48	59	52	47	43	38	35	32
4	62	52	46	41	53	46	40	36	34	30	27
5	56	46	39	34	49	41	35	31	30	26	23
6	52	41	34	29	45	36	30	26	27	23	20
7	48	37	30	25	41	33	27	23	24	20	17
8	44	33	27	22	38	29	24	20	22	18	15
9	41	30	24	19	35	27	21	17	20	16	13
10	38	28	21	17	33	24	19	15	18	14	12

Based on floor reflectance of 20

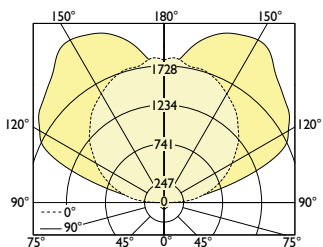
LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	895	520	446
55	892	443	344
65	891	329	251
75	794	204	146
85	576	87	22

TWR 2 T5HO



PHOTOMETRIC CURVE



Test Lamp: 2xF54T5HO

IES FILE: TWR-S-4-T5HO-2.ies

Efficiency: 80.6%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	71	71	71	71	71	
5	78	71	75	72	72	4
15	72	69	71	69	67	16
25	65	67	67	67	68	28
35	62	59	62	63	66	37
45	52	54	58	51	46	41
55	40	49	44	36	35	39
65	30	39	28	25	24	32
75	22	24	15	13	13	21
85	22	19	8	2	2	11
90	86	45	17	6	4	
95	305	257	163	126	110	118
105	581	792	933	830	789	692
115	820	1095	1353	1528	1579	1207
125	1034	1405	1579	1735	1810	1360
135	1240	1584	1868	1905	1942	1360
145	1418	1678	1996	2171	2179	1248
155	1555	1699	1986	2133	2186	975
165	1640	1708	1827	1951	2028	616
175	1714	1701	1734	1704	1675	249
180	1686	1686	1686	1686	1686	

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	77	77	77	77	67	67	67	67	46	46	46
1	70	67	64	62	60	58	55	53	40	39	37
2	64	59	54	50	55	50	47	44	35	33	31
3	58	51	46	42	50	44	40	36	31	28	26
4	53	45	39	35	45	39	34	30	27	24	22
5	49	40	34	30	42	35	30	26	24	21	19
6	45	36	30	25	38	31	26	22	22	18	16
7	41	32	26	22	35	28	23	19	19	16	14
8	38	29	23	19	32	25	20	17	17	14	12
9	35	26	20	17	30	22	18	14	16	13	10
10	32	23	18	15	28	20	16	13	14	11	9

Based on floor reflectance of 20

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	568	445	326
55	523	368	261
65	516	260	196
75	575	168	117
85	1266	108	21

i All IES files are available for download at: www.axislighting.com