



RECESSED MOUNT

● PROJECT INFORMATION

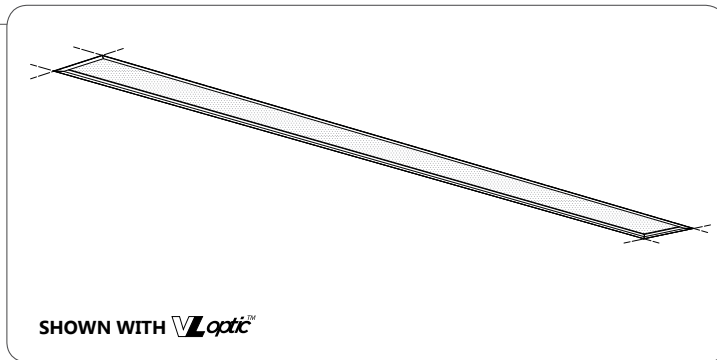
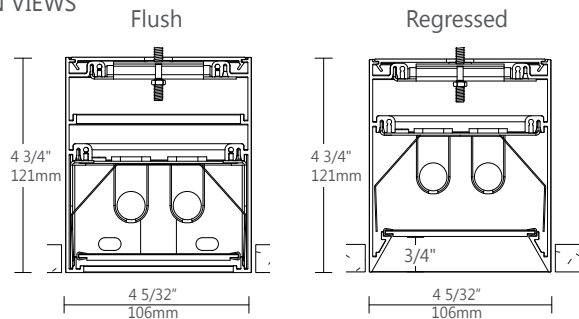
Project:

Notes:

Type:

● DIMENSIONS

SECTION VIEWS



● ORDERING CODE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
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1 PRODUCT ID		2 OPTICS		3 OPTICS POSITION		4 LENGTH/FT		5 SPECIFY LENGTH		6 LAMP					
RAY4	recessed	VL	vl optic	FL	flush	2	2'	NL	nominal (3' & 4' lamps)	T5	T5				
						3	3'	NL4	nominal (4' lamps only)			T5HO	T5HO		
						4	4'	EX	exact (3' & 4' lamps)					T8	T8 ⁽¹⁾
						5	5'	EX4	exact (4' lamps only)						
						6	6'								
						8	8'								
						12	12'								
						S#	System Run								
								(1) Not available in flush for TB							

7	LAMP CONFIGURATION	8	MR	9	FINISH	10	VOLTAGE	11	BALLAST	12	CIRCUITS
1	1 lamp	M16#	MR 16 halogen	W	white	120	120V	D	dimming	1	1 regular
2	2 lamps	M16LED#	MR 16 LED	C	custom	277	277V	E	instant start ⁽²⁾	2	2 regular
+S	staggered					347	347V ⁽²⁾	ERS	program start	2A/B	2 alternating
						UNV	universal	BI	bi-level dimming	+E#	emergency section
										+NL#	night light section
										+GTD#	generator transfer device
										+M	MR
Add 9" per lamp					(2) Please consult factory			(3) Available with T8 lamp only			

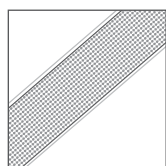
13	MOUNTING/SUSPENSION	14	BATTERY	15	OTHER	16	IC CONTROLS	17	CUSTOM
TB9	t-bar 9/16"	B#	battery pack 4' sections	F	fuse	DS#	daylight sensor	C	custom
TB15	t-bar 15/16"			EF	end feed	OS#	occupancy sensor		
ST	screw slot t-bar			FW#	flex whip (6' std)	DS+OS#	daylight+occupancy sensor		
TG9	regular 9/16"			CP	Chicago plenum	DOS#	daylight&occupancy sensor		
TG15	regular 15/16"								
DF	drywall flange								
D	drywall flangeless								
DB	slip-through bracket								
DS	drywall spackle flange								
						See integrated controls guide for further details		Please specify	

CONSTRUCTION

Housing	Extruded Aluminum (0.075" nominal) Up to 70% Recycled Content
End Cap	Extruded Aluminum (0.075" nominal) Up to 70% Recycled Content
Spacer	Extruded Aluminum (0.075" nominal) Up to 70% Recycled Content
Interior Brackets	Die Formed Sheet Steel (18 ga)
Reflectors	White Powder Coated Sheet Steel (22 ga)
Blank	Extruded Acrylic (0.075" nominal)
VL^{optics}	PMMA 92% transmissive lens
T-Bar Bracket	Die Formed Sheet Steel (16 ga)
Screw Slot T-Bar Bracket	Die Formed Sheet Steel (16 ga)
Slip-Through Bracket	Die Formed Sheet Steel (18 ga)
Spackle Flange	Die Formed Perforated Sheet Steel (20 ga)
Flange	Extruded Aluminium (0.075" nominal) visible flange width: 9/16"

OPTICAL SYSTEM

Diffusing a soft radiating light to fill the space without glare or harsh shadows is not an impossible task anymore. RAY's wide lighting pattern and innovative VL Optics™ lens give a natural illumination; allowing for visual comfort while revealing the room's design features.



VL vl optic

VL^{optics}: PMMA Precision formed microconical structure (VL Optic)
92 percent transmission that cuts off glare above 55 degrees.

WEIGHT

4 ft	16 lbs / 7.3 Kg
8 ft	32 lbs / 14.5 Kg
12 ft	48 lbs / 21.8 Kg

SYSTEM (S#)

Runs of RAY 4 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 RAY 4 installation sheets available for download at www.axislighting.com.

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

FINISH

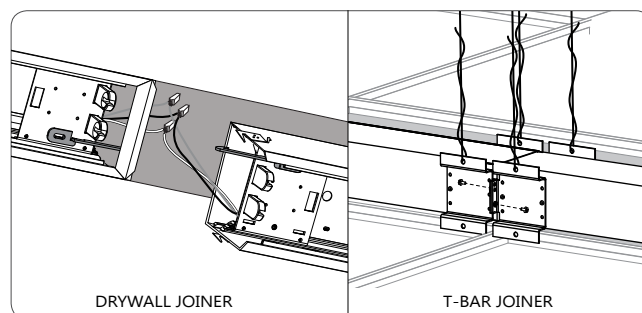
Aluminium paint, Powder Coated and custom finishes are also available.

APPROVALS

Certified to UL and CUL standards ^{us}
 Meets NYC requirements
 Meets CCEC requirements
 Suitable for damp locations.

JOINERS

In order to allow very long runs of RAY luminaires, Axis has developed an effective joining system. Special care has been taken to maximize the performance of the joiner for each RAY option.

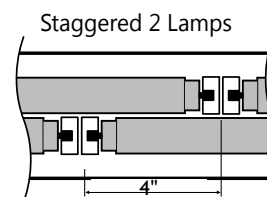
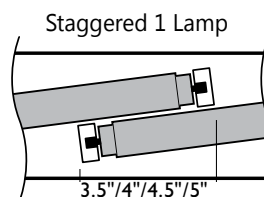


NOTE: Hang each system segment individually. Do not assemble system prior to hanging.

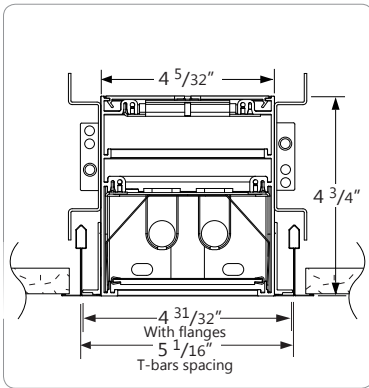
STAGGERED LAMPING

When RAY is used in continuous runs longer than 4', staggered lamping can be used to eliminate the appearance of socket shadows at the ends of the lamps. RAY uses a staggered overlap of 4 different bracket lengths (3.5", 4", 4.5" and 5"), along with 3' and 4' lamps, allowing us to match almost any row length requirements with optimal results. For example 3 x 3' T5 lamps can be used to completely illuminate the lens of an 8' luminaire.

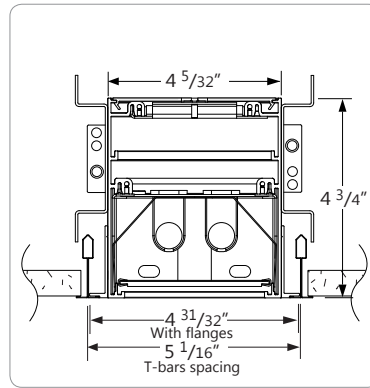
LAMP TYPE	T5	T5HO	T8
1 lamp	•	•	•
2 lamps	•	•	•



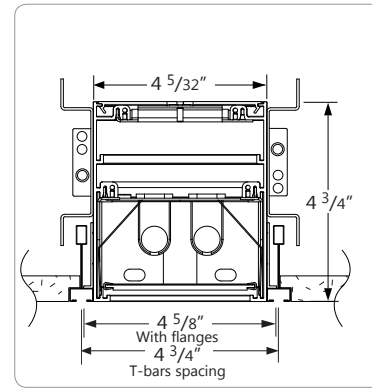
● **TB CEILING MOUNTING OPTIONS**



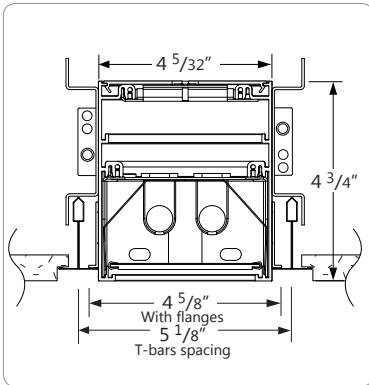
TB15 15/16" T-BAR



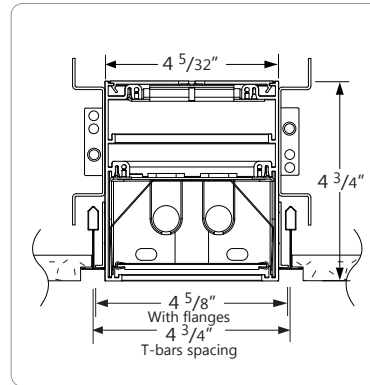
TB9 9/16" T-BAR



ST SCREW SLOT T-BAR

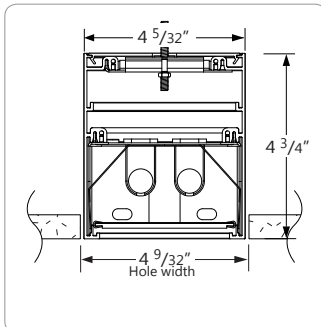


TG15 15/16" TEGULAR

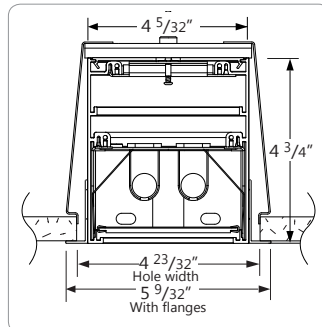


TG9 9/16" T-TEGULAR

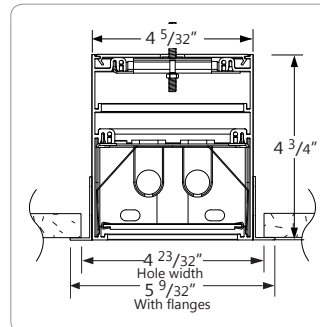
● **DRYWALL CEILING MOUNTING OPTIONS**



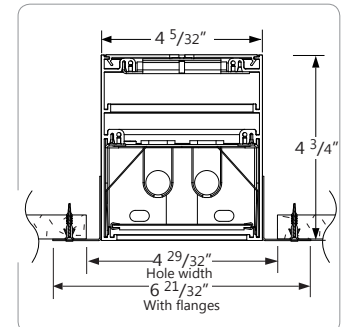
**D FLANGELESS WITH
1/4-20 STUD MOUNTING**



**DB VISIBLE FLANGES WITH
SLIP-THROUGH BRACKET**



**DF VISIBLE FLANGES WITH
1/4-20 STUD MOUNTING**

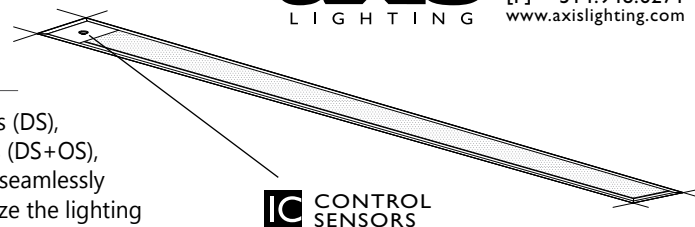


DS SPACKLE FLANGES

● **OTHER MOUNTING OPTIONS**

RAY is also available with pendant, surface and wall mounted options.

i Specification sheets and Installation sheets for all mounting for Ray luminaires are available for download at www.axislighting.com



● INTEGRATED CONTROL OPTIONS

RAY 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.

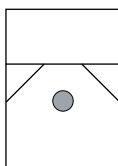
- Consult factory for other options.
- Refer to IC brochure for more information.

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

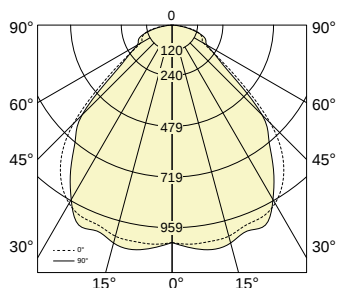
● PHOTOMETRIC DATA

I T5

with **VL optic™**



PHOTOMETRIC CURVE



Test Lamp: 1x F28T5
IES FILE: RAY4-VL-FL-4-T5-1

Efficiency: 82.2%

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

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	1029	1029	1029	1029	1029	
5	1041	1026	1038	1063	1059	56
15	1034	1048	1046	1048	1068	249
25	1003	988	996	1027	1044	426
35	912	868	854	835	836	531
45	659	590	608	604	603	497
55	262	261	247	246	252	277
65	157	159	150	162	176	164
75	122	109	101	119	114	132
85	30	23	21	23	18	49
90	2	1	1	1	0	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	6656	3592	3120
55	3134	1500	1309
65	2401	966	946
75	2707	714	657
85	1278	170	113

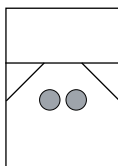
COEFFICIENTS OF UTILIZATION (%)

Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	10
0	99	99	99	99	96	96	96	96	92	92	92	92
1	91	88	85	82	89	86	83	81	83	80	78	78
2	84	78	73	69	82	77	72	68	74	70	67	67
3	78	70	64	59	76	69	63	59	66	62	58	58
4	72	63	57	52	70	62	56	51	60	55	51	51
5	67	57	50	45	65	56	50	45	54	49	45	45
6	62	52	45	40	60	51	45	40	50	44	40	40
7	58	47	41	36	56	47	40	36	46	40	36	36
8	54	44	37	33	53	43	37	32	42	36	32	32
9	51	40	34	30	49	40	34	29	39	33	29	29
10	48	37	31	27	47	37	31	27	36	31	27	27

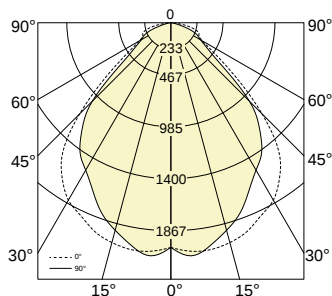
Based on floor reflectance of 20

2 T5

with VL^{opti}



PHOTOMETRIC CURVE



Test Lamp: 2xT5
IES FILE: RAY4-VL-RG-4-T5-2

Efficiency: 71.4%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	2017	2017	2017	2017	2017	
5	2059	2082	2081	2076	2100	111
15	2042	2027	2010	1936	1929	477
25	1911	1875	1755	1691	1659	768
35	1700	1580	1479	1428	1420	928
45	1158	1110	1062	1013	997	884
55	473	479	432	399	398	483
65	277	276	231	245	261	272
75	215	159	116	99	82	175
85	40	18	13	12	12	41
90	1	1	1	1	1	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	11688	6274	5163
55	5671	2618	2066
65	4233	1490	1402
75	4741	822	473
85	1694	109	77

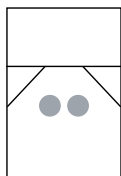
COEFFICIENTS OF UTILIZATION (%)

Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	10
0	85	85	85	85	83	83	83	83	80	80	80	80
1	80	77	74	72	78	75	73	71	72	70	69	69
2	74	69	65	61	72	67	64	61	65	62	59	59
3	68	62	57	53	67	61	56	52	59	55	52	52
4	63	56	50	46	62	55	50	46	53	49	45	45
5	59	51	45	41	57	50	45	41	48	44	40	40
6	55	46	40	36	53	45	40	36	44	39	36	36
7	51	42	37	33	50	42	36	33	41	36	32	32
8	48	39	33	30	47	38	33	29	37	33	29	29
9	45	36	30	27	44	35	30	27	35	30	27	27
10	42	33	28	25	41	33	28	25	32	28	24	24

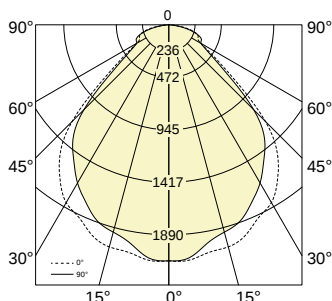
Based on floor reflectance of 20

2 T5

with VL^{opti}



PHOTOMETRIC CURVE



Test Lamp: 2xT5
IES FILE: RAY4-VL-FL-4-T5-2

Efficiency: 75.9%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	2124	2124	2124	2124	2124	
5	2126	2068	2089	2083	2105	113
15	2069	2000	1973	1953	1932	476
25	1913	1846	1782	1765	1764	778
35	1706	1573	1550	1507	1491	955
45	1232	1137	1107	1099	1081	925
55	491	491	467	440	445	514
65	289	296	277	288	324	303
75	231	203	188	220	213	246
85	58	43	39	42	34	92
90	4	2	1	1	1	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	12438	6542	5600
55	5877	2834	2312
65	4423	1783	1745
75	5109	1334	1225
85	2450	319	215

COEFFICIENTS OF UTILIZATION (%)

Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	10
0	91	91	91	91	89	89	89	89	85	85	85	85
1	84	81	78	76	82	79	77	74	76	74	72	72
2	78	72	68	64	76	71	67	63	68	65	62	62
3	72	65	59	55	70	63	58	54	61	57	53	53
4	66	58	52	48	65	57	52	47	55	50	47	47
5	61	53	46	42	60	52	46	42	50	45	41	41
6	57	48	42	37	56	47	41	37	46	41	37	37
7	53	44	38	33	52	43	37	33	42	37	33	33
8	50	40	34	30	49	40	34	30	39	34	30	30
9	47	37	31	27	46	37	31	27	36	31	27	27
10	44	34	29	25	43	34	29	25	33	28	25	25

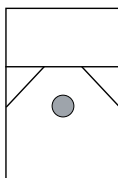
Based on floor reflectance of 20

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

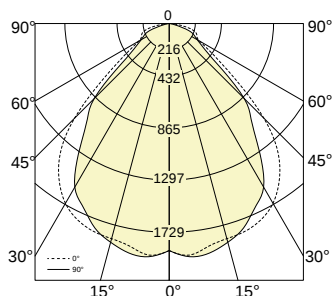
● PHOTOMETRIC DATA

1 T5HO

with VL^{optics}™



PHOTOMETRIC CURVE



Test Lamp: 1x F54T5HO
IES FILE: RAY4-VL-RG-4-T5HO-1

Efficiency: 77.3%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	1881	1881	1881	1881	1881	
5	1926	1854	1899	1891	1939	102
15	1845	1891	1908	1888	1876	450
25	1795	1795	1742	1691	1682	746
35	1589	1520	1438	1358	1307	898
45	1111	1011	952	905	879	803
55	439	426	386	344	344	428
65	253	246	207	218	229	243
75	198	144	105	90	77	159
85	37	16	13	12	12	38
90	1	1	1	1	1	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	11217	5622	4550
55	5254	2343	1786
65	3874	1335	1229
75	4382	744	443
85	1538	103	74

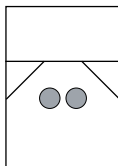
COEFFICIENTS OF UTILIZATION (%)

Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	
0	93	93	93	93	91	91	91	91	86	86	86	
1	86	83	81	78	84	82	79	77	78	76	75	
2	80	75	70	67	78	73	69	66	71	67	64	
3	74	67	62	58	72	66	61	57	64	60	56	
4	69	61	55	50	67	60	54	50	58	53	49	
5	64	55	49	45	62	54	49	44	53	48	44	
6	60	50	44	40	58	50	44	40	48	43	39	
7	56	46	40	36	54	46	40	36	44	39	35	
8	52	42	37	32	51	42	36	32	41	36	32	
9	49	39	33	30	48	39	33	29	38	33	29	
10	46	36	31	27	45	36	31	27	35	30	27	

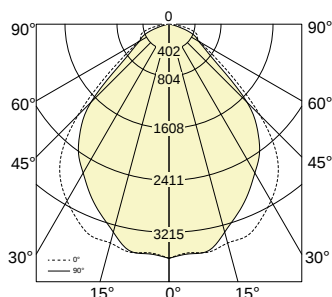
Based on floor reflectance of 20

2 T5HO

with VL^{optics}™



PHOTOMETRIC CURVE



Test Lamp: 2x F54T5HO
IES FILE: RAY4-VL-RG-4-T5HO-2

Efficiency: 71.4%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	3617	3617	3617	3617	3617	
5	3545	3521	3575	3613	3562	192
15	3500	3488	3410	3393	3326	823
25	3343	3241	3028	2931	2891	1331
35	2925	2717	2541	2475	2439	1599
45	1992	1925	1845	1745	1707	1525
55	821	828	741	686	699	830
65	482	479	406	415	451	469
75	372	277	200	171	139	300
85	68	31	23	20	20	71
90	2	2	2	2	2	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	20108	10901	8838
55	9836	4496	3632
65	7383	2610	2425
75	8213	1416	803
85	2877	189	129

COEFFICIENTS OF UTILIZATION (%)

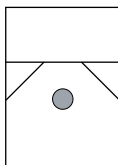
Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	
0	86	86	86	86	84	84	84	84	80	80	80	
1	80	77	74	72	78	75	73	71	72	70	69	
2	74	69	65	61	72	68	64	61	65	62	59	
3	68	62	57	53	67	61	56	52	59	55	52	
4	63	56	50	46	62	55	50	46	53	49	45	
5	59	51	45	41	57	50	45	41	48	44	40	
6	55	46	40	36	53	46	40	36	44	39	36	
7	51	42	37	33	50	42	36	33	41	36	32	
8	48	39	33	30	47	38	33	29	38	33	29	
9	45	36	31	27	44	36	30	27	35	30	27	
10	42	33	28	25	41	33	28	25	32	28	24	

Based on floor reflectance of 20

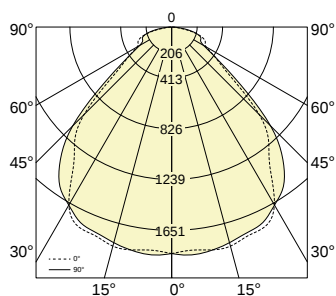
i All IES files for other lamping are available for download at: www.axislighting.com

I T5HO

with **VL**optic™



PHOTOMETRIC CURVE



Test Lamp: 1xF54T5HO
IES FILE: RAY4-VL-FL-4-T5HO-1

Efficiency: 82.1%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	1840	1840	1840	1840	1840	
5	1858	1839	1817	1828	1820	98
15	1813	1811	1817	1831	1843	432
25	1752	1728	1722	1764	1790	740
35	1581	1492	1472	1423	1392	914
45	1137	1017	1040	1019	1007	851
55	447	447	421	418	436	473
65	259	269	263	273	301	281
75	212	188	169	210	210	229
85	53	40	37	41	32	86
90	3	2	1	1	1	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	11481	6144	5212
55	5352	2552	2266
65	3956	1693	1619
75	4688	1200	1207
85	2248	303	204

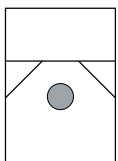
COEFFICIENTS OF UTILIZATION (%)

Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	10
0	98	98	98	98	96	96	96	96	92	92	92	92
1	91	88	85	82	89	86	83	81	82	80	78	78
2	84	78	73	69	82	77	72	68	74	70	67	67
3	78	70	64	59	76	69	63	59	66	62	58	58
4	72	63	56	52	70	62	56	51	60	55	51	51
5	67	57	50	45	65	56	50	45	54	49	45	45
6	62	52	45	40	60	51	45	40	50	44	40	40
7	58	47	41	36	56	47	41	36	46	40	36	36
8	54	44	37	33	53	43	37	33	42	36	32	32
9	51	40	34	30	49	40	34	30	39	33	29	29
10	48	37	31	27	47	37	31	27	36	31	27	27

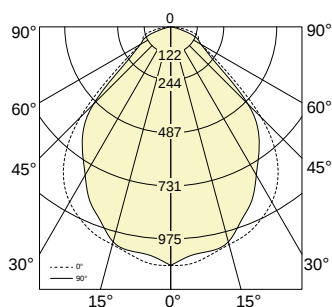
Based on floor reflectance of 20

I T8

with **VL**optic™



PHOTOMETRIC CURVE



Test Lamp: 1xF03231
IES FILE: RAY4-RG-4-T8-1

Efficiency: 73.0%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	1097	1097	1097	1097	1097	
5	1093	1062	1082	1056	1056	58
15	1036	1041	1031	1022	1023	247
25	978	960	923	892	882	399
35	858	812	752	717	707	474
45	589	555	538	517	503	446
55	236	239	221	202	208	242
65	140	140	121	129	139	139
75	112	82	60	52	44	91
85	22	9	6	6	6	21
90	1	1	0	0	1	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	5944	3180	2604
55	2826	1338	1080
65	2138	777	748
75	2483	425	251
85	905	49	40

COEFFICIENTS OF UTILIZATION (%)

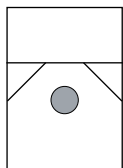
Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	10
0	88	88	88	88	86	86	86	86	82	82	82	82
1	82	79	76	74	80	77	75	73	74	72	70	70
2	76	70	66	63	74	69	65	62	67	63	61	61
3	70	63	58	54	68	62	58	54	60	56	53	53
4	65	57	52	47	63	56	51	47	55	50	46	46
5	60	52	46	42	59	51	46	42	50	45	41	41
6	56	47	42	37	55	47	41	37	45	41	37	37
7	52	43	38	34	51	43	37	33	42	37	33	33
8	49	40	34	30	48	39	34	30	39	34	30	30
9	46	37	31	28	45	36	31	28	36	31	27	27
10	43	34	29	25	42	34	29	25	33	28	25	25

Based on floor reflectance of 20

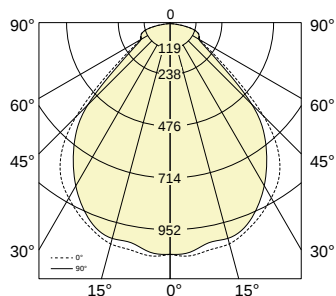
i All IES files for other lamping are available for download at: www.axislighting.com

1 T8

with VL^{opti}™



PHOTOMETRIC CURVE



Test Lamp: 1xF0323 I
IES FILE: RAY4-VL-FL-4-T8-1

Efficiency: 77.7%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	1060	1060	1060	1060	1060	
5	1071	1064	1062	1054	1027	57
15	1048	1028	1022	1022	1029	245
25	976	967	952	939	936	409
35	870	828	797	774	761	496
45	618	565	550	542	543	465
55	247	248	235	218	221	256
65	149	152	137	145	167	152
75	118	100	94	117	116	126
85	30	21	21	23	19	48
90	2	1	1	1	1	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	6235	3252	2809
55	2963	1425	1149
65	2282	884	896
75	2611	666	670
85	1282	170	123

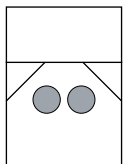
COEFFICIENTS OF UTILIZATION (%)

Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	10
0	93	93	93	93	91	91	91	91	87	87	87	87
1	86	83	80	78	84	81	79	76	78	76	74	74
2	80	74	69	65	78	72	68	65	70	66	63	63
3	73	66	61	56	72	65	60	56	63	58	55	55
4	68	60	54	49	66	59	53	49	57	52	48	48
5	63	54	48	43	62	53	47	43	52	46	42	42
6	59	49	43	38	57	49	43	38	47	42	38	38
7	55	45	39	34	53	44	39	34	43	38	34	34
8	51	41	35	31	50	41	35	31	40	35	31	31
9	48	38	32	28	47	38	32	28	37	32	28	28
10	45	35	30	26	44	35	30	26	34	29	26	26

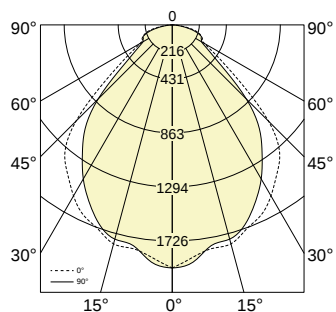
Based on floor reflectance of 20

2 T8

with VL^{opti}™



PHOTOMETRIC CURVE



Test Lamp: 2xF0323 I
IES FILE: RAY4-VL-FL-4-T8-2

Efficiency: 65.6%

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles					Zonal Lumens
	0	22.5	45	67.5	90	
0	1942	1942	1942	1942	1942	
5	1864	1882	1866	1870	1902	101
15	1810	1799	1792	1772	1771	427
25	1677	1676	1619	1578	1566	696
35	1456	1449	1358	1286	1251	839
45	1088	1018	904	851	837	780
55	442	437	374	336	354	426
65	255	252	224	234	266	251
75	201	166	159	184	177	205
85	49	34	34	36	29	77
90	3	2	1	1	1	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	10983	5338	4333
55	5296	2272	1841
65	3900	1444	1428
75	4441	1128	1016
85	2049	276	188

COEFFICIENTS OF UTILIZATION (%)

Ceiling	80				70				50			
Wall	70	50	30	10	70	50	30	10	50	30	10	10
0	79	79	79	79	77	77	77	77	73	73	73	73
1	73	70	68	66	71	69	67	65	66	64	63	63
2	67	63	59	55	66	61	58	55	59	56	54	54
3	62	56	51	48	61	55	51	47	53	50	46	46
4	58	51	46	42	56	50	45	41	48	44	41	41
5	54	46	41	37	52	45	40	37	44	40	36	36
6	50	42	37	33	49	41	36	33	40	36	32	32
7	46	38	33	29	45	38	33	29	37	32	29	29
8	44	35	30	27	43	35	30	27	34	30	26	26
9	41	33	28	24	40	32	27	24	32	27	24	24
10	38	30	25	22	38	30	25	22	29	25	22	22

Based on floor reflectance of 20

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