



Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

CW0606TA-05L-AMB-EX-FG-MW
Nom 6" diam cylinder luminaire

Test Number

SP-00812

Test Date

The results contained in this report pertain only to this IES file.

**Summary of Results****Power**

Input Watts	15.3 W
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Lumen Output

Output Lumens	253
Efficacy	16.51 lm/W

Luminous Dimensions

0° - 180° Size	-0.5
90° - 270° Size	-0.5
Height	0

Spacing Criterion

Two luminaires, plane 0°	1.09
Two luminaires, plane 90°	1.09
Four luminaires	1.18

Full Beam Angle

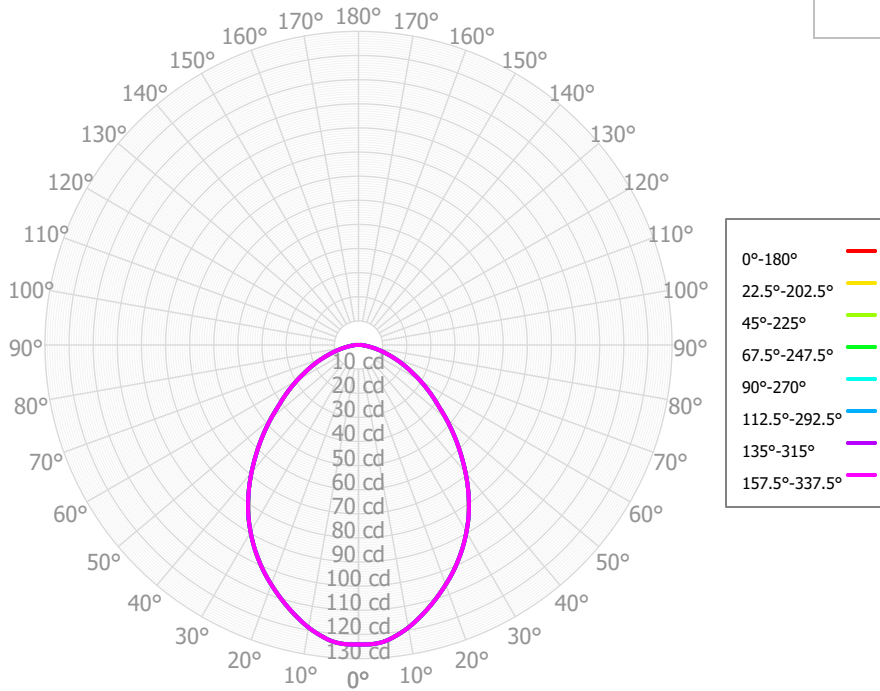
0° - 180°	86°
90° - 270°	86°

IES File Header Contents

Keyword	Value
TEST	SP-00812
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
ISSUEDATE	3/28/2019
UPDATE	4/23/2019
LUMCAT	CW0606TA-05L-AMB-EX-FG-MW
LUMINAIRE	Nom 6" diam cylinder luminaire
OTHER	Beam Angle: 86.3 degrees
OTHER	Matte white trim; Frosted glass lens
LAMPCAT	N/A
LAMP	N/A, Amber in color, 590 nM
OTHER	CCT Output Multipliers: N/A
OTHER	Total luminaire wattages is approximate
OTHER	This report prepared by Spectrum Lighting
_CRI	N/A, Amber Light
_CCTMULT	N/A
_LAMPMULT	N/A

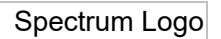


Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	11.80	4.67%	90.00° - 100.00°	0.21	0.08%
10.00° - 20.00°	31.67	12.54%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	45.06	17.84%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	49.70	19.67%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	44.68	17.69%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	33.86	13.40%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	21.91	8.67%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	10.63	4.21%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	3.11	1.23%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	252.43	99.92%	0.00° - 180.00°	252.64	100.00%



Candela Distribution

[illegible]

**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

RCR	pfc	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%
	pcc	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	30%
	0	301	301	301	301	294	294	294	294	281	281	281	269	269	269	258	258	252
	1	278	267	258	249	271	262	253	245	251	244	237	241	235	230	232	228	223
	2	256	237	222	209	249	232	218	206	223	212	201	215	205	197	208	200	192
	3	235	211	192	178	229	207	190	176	200	185	173	193	180	170	187	176	172
	4	217	189	169	154	212	186	167	152	180	163	150	174	160	148	169	157	153
	5	201	171	150	135	196	168	149	134	163	146	132	158	143	131	154	140	137
	6	187	155	134	119	182	153	133	119	149	131	118	144	129	117	141	127	124
	7	174	142	121	107	170	140	120	106	136	118	105	133	117	105	129	115	113
	8	163	130	110	96	159	129	109	96	125	108	95	122	106	95	119	105	103
	9	152	120	101	87	149	119	100	87	116	99	87	113	98	86	111	96	95
	10	143	112	93	80	140	110	92	80	108	91	79	106	90	79	103	89	88

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	4.1 fc	10.3 ft
6.5 ft	2.9 fc	12.2 ft
7.5 ft	2.2 fc	14.0 ft
8.0 ft	1.9 fc	15.0 ft
10.0 ft	1.2 fc	18.7 ft
12.0 ft	0.9 fc	22.5 ft
14.0 ft	0.6 fc	26.2 ft
16.0 ft	0.5 fc	30.0 ft
20.0 ft	0.3 fc	37.5 ft
24.0 ft	0.2 fc	45.0 ft
28.0 ft	0.2 fc	52.4 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	6,808	6,808	6,808
45.00°	4,498	4,498	4,498
55.00°	3,609	3,609	3,609
65.00°	2,865	2,865	2,865
75.00°	2,096	2,096	2,096
85.00°	1,564	1,564	1,564

**UGR CIE 190:2010**

Ceiling reflectance		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall reflectance		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Plane reflectance		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
2H	2H	15.0	16.5	15.4	16.8	17.1	15.0	16.5	15.4	16.8	17.1
	3H	16.3	17.7	16.7	18.0	18.4	16.3	17.7	16.7	18.0	18.4
	4H	16.7	18.0	17.1	18.4	18.7	16.7	18.0	17.1	18.4	18.7
	6H	17.0	18.2	17.4	18.6	19.0	17.0	18.2	17.4	18.6	19.0
	8H	17.1	18.2	17.5	18.6	19.0	17.1	18.2	17.5	18.6	19.0
	12H	17.2	18.2	17.6	18.6	19.0	17.2	18.2	17.6	18.6	19.0
4H	2H	15.5	16.7	15.9	17.1	17.5	15.5	16.7	15.9	17.1	17.5
	3H	17.0	18.0	17.4	18.4	18.8	17.0	18.0	17.4	18.4	18.8
	4H	17.5	18.5	17.9	18.9	19.3	17.5	18.5	17.9	18.9	19.3
	6H	17.9	18.7	18.4	19.2	19.6	17.9	18.7	18.4	19.2	19.6
	8H	18.0	18.8	18.5	19.2	19.7	18.0	18.8	18.5	19.2	19.7
	12H	18.1	18.8	18.6	19.3	19.7	18.1	18.8	18.6	19.3	19.7
8H	4H	17.7	18.5	18.2	18.9	19.4	17.7	18.5	18.2	18.9	19.4
	6H	18.2	18.8	18.7	19.3	19.8	18.2	18.8	18.7	19.3	19.8
	8H	18.3	18.9	18.8	19.4	19.9	18.3	18.9	18.8	19.4	19.9
	12H	18.5	19.0	19.0	19.5	20.0	18.5	19.0	19.0	19.5	20.0
12H	4H	17.7	18.4	18.2	18.9	19.3	17.7	18.4	18.2	18.9	19.3
	6H	18.2	18.8	18.7	19.2	19.8	18.2	18.8	18.7	19.2	19.8
	8H	18.4	18.9	18.9	19.4	19.9	18.4	18.9	18.9	19.4	19.9

Corrected UGR values based on total output lumens

SHR = 1.0