



Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

CW606TD-10L-30K-EX-SO-MW
Nom 6" diam cylinder luminaire

Test Number

SP-00833

Test Date

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

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

Input Watts	15.9 W
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Lumen Output

Output Lumens	683
Efficacy	42.97 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.27
Two luminaires, plane 90°	1.27
Four luminaires	1.21

Full Beam Angle

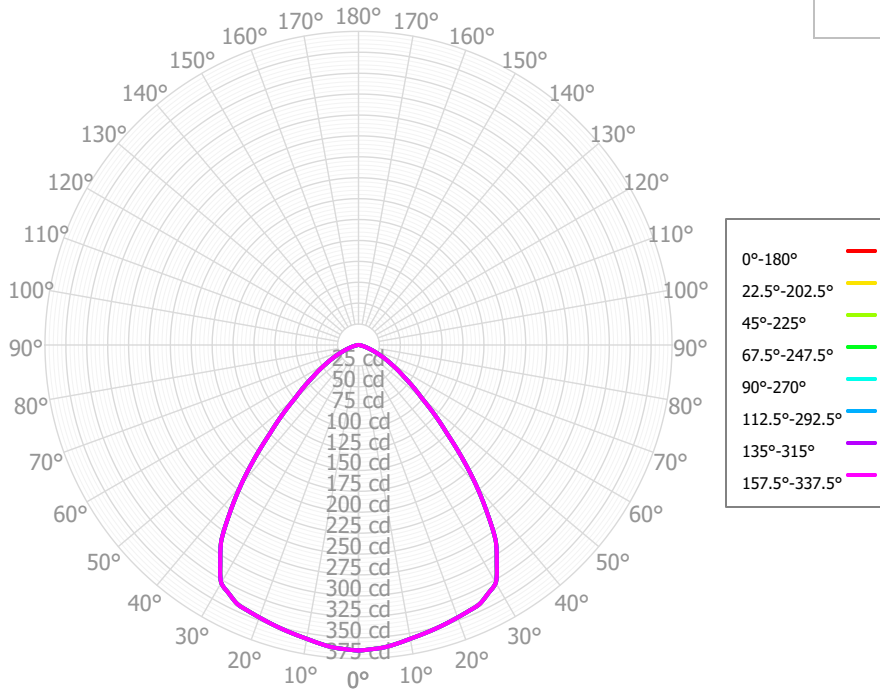
0° - 180°	85°
90° - 270°	85°

IES File Header Contents

Keyword	Value
TEST	SP-00833
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
ISSUEDATE	3/28/2019
UPDATE	4/30/2019
LUMCAT	CW606TD-10L-30K-EX-SO-MW
LUMINAIRE	Nom 6" diam cylinder luminaire
OTHER	Beam Angle: 85.2 degrees
OTHER	Matte white trim; Solite lens
LAMPCAT	N/A
LAMP	N/A, White light
OTHER	CCT Output Multipliers: only 30K available
OTHER	Total luminaire wattages is approximate
OTHER	This report prepared by Spectrum Lighting
_CRI	80
_CCTMULT	only 30K available
_LAMPMULT	only 10L available

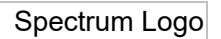


Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	34.94	5.11%	90.00° - 100.00°	0.11	0.02%
10.00° - 20.00°	99.53	14.57%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	156.99	22.98%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	174.29	25.51%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	117.86	17.25%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	61.38	8.98%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	28.24	4.13%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	8.43	1.23%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	1.46	0.21%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	683.11	99.98%	0.00° - 180.00°	683.22	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°	112.50°	135.00°	157.50°	180.00°	202.50°	225.00°	247.50°	270 00°	292.50°	315.00°	337.50°	360.00°
0.00°	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36	365.36
2.50°	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23	364.23
5.00°	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84	362.84
7.50°	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98	359.98
10.00°	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84	356.84
12.50°	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28	354.28
15.00°	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80	351.80
17.50°	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30	349.30
20.00°	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79	346.79
22.50°	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44	344.44
25.00°	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09	342.09
27.50°	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41	335.41
30.00°	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40	328.40
32.50°	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70	307.70
35.00°	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30	286.30
37.50°	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64	252.64
40.00°	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87	218.87
42.50°	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90	183.90
45.00°	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00
47.50°	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85	123.85
50.00°	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19	99.19
52.50°	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40	82.40
55.00°	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66	66.66
57.50°	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31	55.31
60.00°	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58	44.58
62.50°	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92	35.92
65.00°	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
67.50°	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97
70.00°	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39	15.39
72.50°	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77
75.00°	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58
77.50°	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
80.00°	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
82.50°	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
85.00°	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
87.50°	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
90.00°	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
92.50°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.00°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.50°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.50°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.00°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.50°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.00°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.50°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	813	813	813	813	794	794	794	794	759	759	759	727	727	727	697	697	683
	1	763	739	717	698	746	724	704	687	696	680	665	670	657	645	646	636	623
	2	711	668	632	602	695	656	623	595	632	605	582	611	589	569	592	573	561
	3	661	604	560	525	646	594	554	521	575	541	512	558	528	504	541	517	506
	4	615	549	500	463	601	540	495	460	525	485	454	510	476	449	496	467	458
	5	573	500	449	412	560	493	445	410	480	438	406	467	431	402	456	424	415
	6	535	458	406	369	523	452	403	368	440	397	365	430	391	362	420	386	378
	7	500	421	369	333	490	416	367	332	406	362	330	397	357	328	388	353	346
	8	469	388	337	302	459	384	335	301	375	331	300	367	327	298	360	324	318
	9	440	359	309	276	431	355	308	275	348	305	274	341	301	273	335	298	293
	10	414	334	285	253	406	330	284	253	324	281	252	318	279	251	312	276	272

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	12.1 fc	10.1 ft
6.5 ft	8.6 fc	11.9 ft
7.5 ft	6.5 fc	13.8 ft
8.0 ft	5.7 fc	14.7 ft
10.0 ft	3.7 fc	18.4 ft
12.0 ft	2.5 fc	22.1 ft
14.0 ft	1.9 fc	25.7 ft
16.0 ft	1.4 fc	29.4 ft
20.0 ft	0.9 fc	36.8 ft
24.0 ft	0.6 fc	44.1 ft
28.0 ft	0.5 fc	51.5 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	20,029	20,029	20,029
45.00°	11,629	11,629	11,629
55.00°	6,371	6,371	6,371
65.00°	3,612	3,612	3,612
75.00°	1,606	1,606	1,606
85.00°	722	722	722

**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	15.2	16.5	15.6	16.8	17.2	15.2	16.5	15.6	16.8	17.2
	3H	15.8	16.9	16.1	17.3	17.6	15.8	16.9	16.1	17.3	17.6
	4H	15.8	16.9	16.2	17.3	17.7	15.8	16.9	16.2	17.3	17.7
	6H	15.8	16.8	16.2	17.2	17.6	15.8	16.8	16.2	17.2	17.6
	8H	15.8	16.7	16.2	17.1	17.5	15.8	16.7	16.2	17.1	17.5
	12H	15.8	16.7	16.2	17.0	17.5	15.8	16.7	16.2	17.0	17.5
4H	2H	15.4	16.5	15.8	16.8	17.2	15.4	16.5	15.8	16.8	17.2
	3H	16.1	17.0	16.5	17.4	17.8	16.1	17.0	16.5	17.4	17.8
	4H	16.2	17.0	16.6	17.4	17.8	16.2	17.0	16.6	17.4	17.8
	6H	16.2	16.9	16.7	17.3	17.8	16.2	16.9	16.7	17.3	17.8
	8H	16.2	16.8	16.6	17.2	17.7	16.2	16.8	16.6	17.2	17.7
	12H	16.1	16.7	16.6	17.2	17.6	16.1	16.7	16.6	17.2	17.6
8H	4H	16.1	16.8	16.6	17.2	17.7	16.1	16.8	16.6	17.2	17.7
	6H	16.2	16.7	16.7	17.2	17.6	16.2	16.7	16.7	17.2	17.6
	8H	16.1	16.6	16.6	17.1	17.6	16.1	16.6	16.6	17.1	17.6
	12H	16.1	16.5	16.6	17.0	17.6	16.1	16.5	16.6	17.0	17.6
12H	4H	16.1	16.7	16.6	17.1	17.6	16.1	16.7	16.6	17.1	17.6
	6H	16.1	16.6	16.6	17.0	17.6	16.1	16.6	16.6	17.0	17.6
	8H	16.1	16.5	16.6	17.0	17.6	16.1	16.5	16.6	17.0	17.6

Corrected UGR values based on total output lumens

SHR = 1.0