

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

ME1314UDGV 37LGL 55LTF2 35KEX MWI
Indirect/direct Espresso

Test Number

SP-00255_58

Test Date

5/6/2019

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

Summary of Results

Power

Input Watts	65 W
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Lumen Output

Output Lumens	6896
Efficacy	106.09 lm/W

Luminous Dimensions

0° - 180° Size	-1.16
90° - 270° Size	-1.16
Height	0

Spacing Criterion

Two luminaires, plane 0°	1.37
Two luminaires, plane 90°	1.37
Four luminaires	1.33

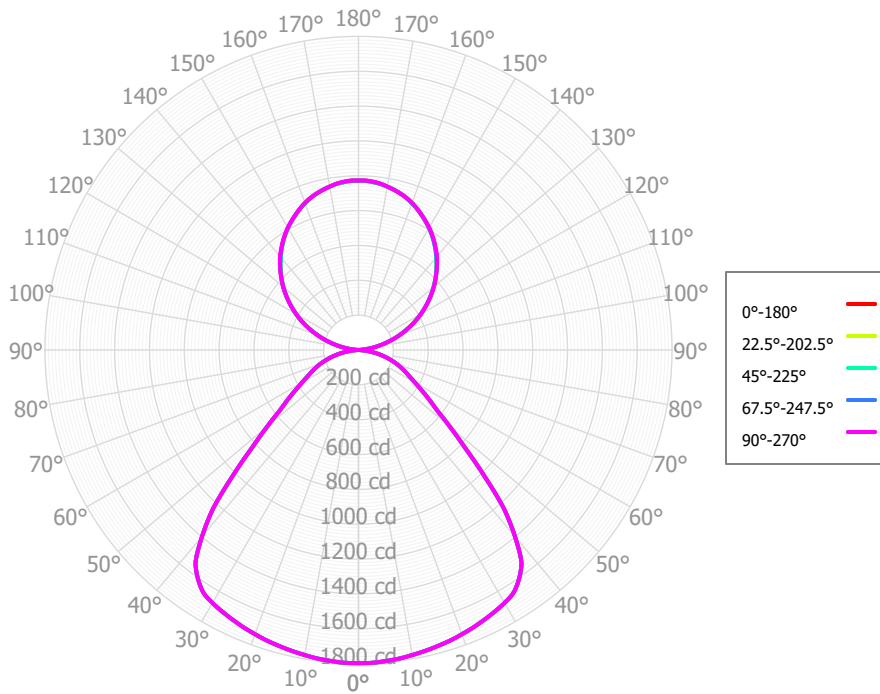
Full Beam Angle

0° - 180°	320°
90° - 270°	320°

IES File Header Contents

Keyword	Value
TEST	SP-00255_58
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	5/6/2019
ISSUEDATE	1/10/2020
LUMCAT	ME1314UDGV 37LGL 55LTF2 35KEX MWI
LUMINAIRE	Indirect/direct Espresso
LAMPCAT	N/A
LAMP	Indirect/direct source: 37L GV board / 55L GV board
OTHER	Uplight: 90 degree beam angle
OTHER	Uplight: Flush clear glass lens
OTHER	Downlight: 93.2 degree beam angle
OTHER	Downlight: Regressed 3 inch domed diffuser
OTHER	CCT Output Multipliers: 27K x 0.97, 30K x 0.98, 40K x 1.03, 50K x 1.06
OTHER	Total luminaire watts is approximate
OTHER	This report prepared by Spectrum Lighting
_CRI	80
_CCTMULT	27K x 0.97, 30K 0.98, 40K x 1.03, 50K x 1.06
_LAMPMULT	N/A

Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	179.21	2.60%	90.00° - 100.00°	36.78	0.53%
10.00° - 20.00°	497.77	7.21%	100.00° - 110.00°	180.12	2.61%
20.00° - 30.00°	789.53	11.43%	100.00° - 120.00°	509.04	7.37%
30.00° - 40.00°	990.79	14.35%	120.00° - 130.00°	437.62	6.34%
40.00° - 50.00°	788.68	11.42%	130.00° - 140.00°	486.66	7.05%
50.00° - 60.00°	449.84	6.51%	140.00° - 150.00°	472.40	6.84%
60.00° - 70.00°	295.63	4.28%	150.00° - 160.00°	394.29	5.71%
70.00° - 80.00°	173.96	2.52%	160.00° - 170.00°	262.04	3.79%
80.00° - 90.00°	44.30	0.64%	170.00° - 180.00°	96.48	1.40%
0.00° - 90.00°	4,209.71	60.97%	0.00° - 180.00°	6,905.04	100.00%

Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	1,797.86	1,797.86	1,797.86	1,797.86	1,797.86
2.50°	1,797.86	1,797.86	1,797.86	1,797.86	1,797.86
5.00°	1,792.86	1,792.86	1,792.86	1,792.86	1,792.86
7.50°	1,787.18	1,787.18	1,787.18	1,787.18	1,787.18
10.00°	1,778.45	1,778.45	1,778.45	1,778.45	1,778.45
12.50°	1,769.50	1,769.50	1,769.50	1,769.50	1,769.50
15.00°	1,759.47	1,759.47	1,759.47	1,759.47	1,759.47
17.50°	1,749.34	1,749.34	1,749.34	1,749.34	1,749.34
20.00°	1,736.65	1,736.65	1,736.65	1,736.65	1,736.65
22.50°	1,723.77	1,723.77	1,723.77	1,723.77	1,723.77
25.00°	1,708.82	1,708.82	1,708.82	1,708.82	1,708.82
27.50°	1,693.63	1,693.63	1,693.63	1,693.63	1,693.63
30.00°	1,676.91	1,676.91	1,676.91	1,676.91	1,676.91
32.50°	1,654.45	1,654.45	1,654.45	1,654.45	1,654.45
35.00°	1,606.25	1,606.25	1,606.25	1,606.25	1,606.25
37.50°	1,536.79	1,536.79	1,536.79	1,536.79	1,536.79
40.00°	1,397.76	1,397.76	1,397.76	1,397.76	1,397.76
42.50°	1,236.48	1,236.48	1,236.48	1,236.48	1,236.48
45.00°	1,019.26	1,019.26	1,019.26	1,019.26	1,019.26
47.50°	826.88	826.88	826.88	826.88	826.88
50.00°	684.13	684.13	684.13	684.13	684.13
52.50°	567.90	567.90	567.90	567.90	567.90
55.00°	493.99	493.99	493.99	493.99	493.99
57.50°	428.69	428.69	428.69	428.69	428.69
60.00°	374.54	374.54	374.54	374.54	374.54
62.50°	330.53	330.53	330.53	330.53	330.53
65.00°	296.96	296.96	296.96	296.96	296.96
67.50°	264.60	264.60	264.60	264.60	264.60
70.00°	232.94	232.94	232.94	232.94	232.94
72.50°	199.00	199.00	199.00	199.00	199.00
75.00°	165.00	165.00	165.00	165.00	165.00
77.50°	131.11	131.11	131.11	131.11	131.11
80.00°	97.44	97.44	97.44	97.44	97.44
82.50°	64.87	64.87	64.87	64.87	64.87
85.00°	34.74	34.74	34.74	34.74	34.74
87.50°	9.89	9.89	9.89	9.89	9.89
90.00°	9.63	9.63	9.63	9.63	9.63
92.50°	0.00	0.00	0.00	0.00	1.91
95.00°	28.52	26.52	23.09	26.14	24.27
97.50°	60.12	56.57	56.13	59.24	60.34
100.00°	94.79	93.12	91.64	95.15	95.06
102.50°	131.27	130.20	129.56	131.10	132.15
105.00°	170.49	169.15	170.03	171.01	170.99
107.50°	211.15	209.64	209.73	212.55	210.89
110.00°	252.61	250.41	248.81	252.56	252.10
112.50°	292.94	290.69	290.83	293.75	293.33

Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

	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%
RCR	0	7,579	7,579	7,579	7,579	7,089	7,089	7,089	7,089	6,175	6,175	6,175	5,339	5,339	5,339	4,571	4,571	4,210
	1	6,979	6,699	6,447	6,220	6,524	6,283	6,065	5,868	5,505	5,344	5,197	4,790	4,674	4,568	4,131	4,051	3,737
	2	6,406	5,922	5,523	5,187	5,985	5,566	5,216	4,919	4,897	4,632	4,404	4,280	4,084	3,912	3,710	3,568	3,296
	3	5,884	5,261	4,779	4,395	5,497	4,954	4,528	4,184	4,375	4,046	3,775	3,839	3,590	3,381	3,343	3,158	2,922
	4	5,415	4,699	4,175	3,774	5,060	4,432	3,965	3,604	3,929	3,562	3,272	3,462	3,179	2,950	3,027	2,813	2,607
	5	4,995	4,220	3,678	3,278	4,670	3,987	3,501	3,138	3,547	3,160	2,864	3,137	2,833	2,596	2,754	2,521	2,341
	6	4,620	3,809	3,265	2,874	4,322	3,605	3,114	2,758	3,218	2,822	2,528	2,856	2,542	2,302	2,517	2,272	2,115
	7	4,285	3,456	2,919	2,542	4,013	3,276	2,789	2,443	2,933	2,537	2,248	2,613	2,294	2,056	2,311	2,059	1,921
	8	3,986	3,151	2,626	2,266	3,737	2,992	2,514	2,181	2,687	2,294	2,013	2,400	2,081	1,848	2,131	1,876	1,754
	9	3,719	2,887	2,377	2,033	3,490	2,744	2,278	1,960	2,472	2,085	1,815	2,215	1,899	1,672	1,973	1,717	1,609
	10	3,480	2,657	2,164	1,836	3,269	2,529	2,077	1,772	2,283	1,906	1,645	2,052	1,740	1,520	1,833	1,579	1,483

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	59.4 fc	0.0 ft
6.5 ft	42.6 fc	0.0 ft
7.5 ft	32.0 fc	0.0 ft
8.0 ft	28.1 fc	0.0 ft
10.0 ft	18.0 fc	0.0 ft
12.0 ft	12.5 fc	0.0 ft
14.0 ft	9.2 fc	0.0 ft
16.0 ft	7.0 fc	0.0 ft
20.0 ft	4.5 fc	0.0 ft
24.0 ft	3.1 fc	0.0 ft
28.0 ft	2.3 fc	0.0 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	18,311	18,311	18,311
45.00°	14,681	14,681	14,681
55.00°	8,772	8,772	8,772
65.00°	7,157	7,157	7,157
75.00°	6,493	6,493	6,493
85.00°	4,060	4,060	4,060

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	14.2	15.1	15.0	15.9	17.1	14.2	15.1	15.0	15.9	17.1
	3H	15.8	16.6	16.7	17.5	18.6	15.8	16.6	16.7	17.5	18.6
	4H	16.4	17.2	17.3	18.0	19.2	16.4	17.2	17.3	18.0	19.2
	6H	16.8	17.5	17.7	18.4	19.6	16.8	17.5	17.7	18.4	19.6
	8H	17.0	17.6	17.9	18.5	19.7	17.0	17.6	17.9	18.5	19.7
	12H	17.0	17.6	17.9	18.5	19.7	17.0	17.6	17.9	18.5	19.7
4H	2H	14.6	15.4	15.5	16.3	17.4	14.6	15.4	15.5	16.3	17.4
	3H	16.5	17.1	17.4	18.0	19.2	16.5	17.1	17.4	18.0	19.2
	4H	17.2	17.8	18.2	18.7	19.9	17.2	17.8	18.2	18.7	19.9
	6H	17.8	18.3	18.7	19.2	20.4	17.8	18.3	18.7	19.2	20.4
	8H	18.0	18.4	18.9	19.4	20.6	18.0	18.4	18.9	19.4	20.6
	12H	18.0	18.5	19.0	19.4	20.6	18.0	18.5	19.0	19.4	20.6
8H	4H	17.5	17.9	18.4	18.9	20.1	17.5	17.9	18.4	18.9	20.1
	6H	18.2	18.6	19.1	19.5	20.7	18.2	18.6	19.1	19.5	20.7
	8H	18.4	18.7	19.4	19.7	20.9	18.4	18.7	19.4	19.7	20.9
	12H	18.5	18.8	19.5	19.8	21.1	18.5	18.8	19.5	19.8	21.1
12H	4H	17.5	17.9	18.4	18.9	20.1	17.5	17.9	18.4	18.9	20.1
	6H	18.2	18.5	19.2	19.5	20.8	18.2	18.5	19.2	19.5	20.8
	8H	18.5	18.8	19.5	19.7	21.0	18.5	18.8	19.5	19.7	21.0

Corrected UGR values based on total output lumens

SHR = 1.0