

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

WS3617GV 55L 35K TF2 MWI

Nom 36 inch 55L 35K GV Frosted plastic diffuser, matte white reflector interior

Test Number

SP-01125

Test Date

5/20/2020

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

Summary of Results

Power

Input Watts	39 W
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Lumen Output

Output Lumens	4529
Efficacy	116.12 lm/W

Luminous Dimensions

0° - 180° Size	-3
90° - 270° Size	-3
Height	0

Spacing Criterion

Two luminaires, plane 0°	1.25
Two luminaires, plane 90°	1.25
Four luminaires	1.38

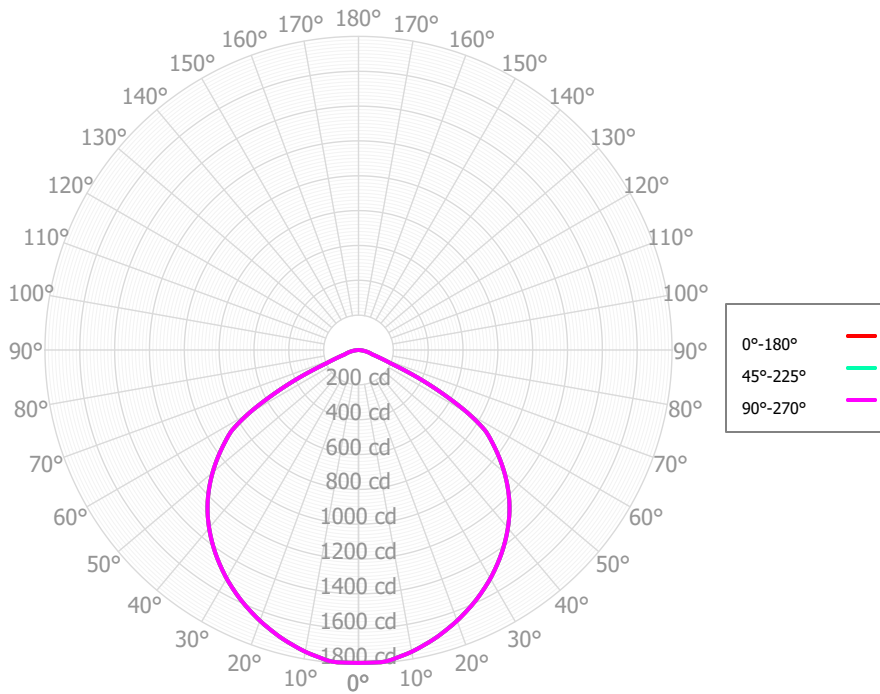
Full Beam Angle

0° - 180°	113°
90° - 270°	113°

IES File Header Contents

Keyword	Value
TEST	SP-01125
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	5/20/2020
ISSUEDATE	5/21/2020
LUMCAT	WS3617GV 55L 35K TF2 MWI
LUMINAIRE	Nom 36 inch 55L 35K GV Frosted plastic diffuser, matte white reflector interior
LAMPCAT	N/A
LAMP	N/A
OTHER	Total luminaire wattage is approximate
OTHER	This report prepared by Spectrum Lighting
_CRI	83+
_CCTMULT	27K x 0.97, 30K x .99, 40K x 1.03
_LAMPMULT	15L x 0.27, 27L x 0.47, 37L x 0.68

Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	177.00	3.90%	90.00° - 100.00°	0.10	0.00%
10.00° - 20.00°	482.61	10.65%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	732.11	16.15%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	893.93	19.72%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	941.66	20.77%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	834.64	18.41%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	381.26	8.41%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	75.08	1.66%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	14.79	0.33%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	4,533.09	100.00%	0.00° - 180.00°	4,533.19	100.00%

Candela Distribution

	0.00°	45.00°	90.00°
0.00°	1,796.53	1,796.53	1,796.53
2.50°	1,796.53	1,796.53	1,796.53
5.00°	1,795.00	1,795.00	1,795.00
7.50°	1,777.48	1,777.48	1,777.48
10.00°	1,759.15	1,759.15	1,759.15
12.50°	1,735.74	1,735.74	1,735.74
15.00°	1,711.49	1,711.49	1,711.49
17.50°	1,683.33	1,683.33	1,683.33
20.00°	1,654.28	1,654.28	1,654.28
22.50°	1,622.18	1,622.18	1,622.18
25.00°	1,588.89	1,588.89	1,588.89
27.50°	1,552.47	1,552.47	1,552.47
30.00°	1,514.43	1,514.43	1,514.43
32.50°	1,472.91	1,472.91	1,472.91
35.00°	1,429.62	1,429.62	1,429.62
37.50°	1,383.28	1,383.28	1,383.28
40.00°	1,334.32	1,334.32	1,334.32
42.50°	1,281.67	1,281.67	1,281.67
45.00°	1,224.22	1,224.22	1,224.22
47.50°	1,161.05	1,161.05	1,161.05
50.00°	1,093.03	1,093.03	1,093.03
52.50°	1,020.24	1,020.24	1,020.24
55.00°	943.67	943.67	943.67
57.50°	864.03	864.03	864.03
60.00°	727.12	727.12	727.12
62.50°	551.11	551.11	551.11
65.00°	376.22	376.22	376.22
67.50°	201.94	201.94	201.94
70.00°	126.72	126.72	126.72
72.50°	81.54	81.54	81.54
75.00°	68.00	68.00	68.00
77.50°	53.44	53.44	53.44
80.00°	38.03	38.03	38.03
82.50°	22.60	22.60	22.60
85.00°	9.99	9.99	9.99
87.50°	2.51	2.51	2.51
90.00°	0.73	0.73	0.73
92.50°	0.00	0.00	0.00
95.00°	0.00	0.00	0.00
97.50°	0.00	0.00	0.00
100.00°	0.00	0.00	0.00
102.50°	0.00	0.00	0.00
105.00°	0.00	0.00	0.00
107.50°	0.00	0.00	0.00
110.00°	0.00	0.00	0.00
112.50°	0.00	0.00	0.00

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	5,397	5,397	5,397	5,397	5,271	5,271	5,271	5,271	5,037	5,037	5,037	4,822	4,822	4,822	4,626	4,626	4,533
	1	5,012	4,829	4,666	4,519	4,892	4,728	4,580	4,446	4,539	4,418	4,307	4,365	4,267	4,176	4,204	4,126	4,053
	2	4,606	4,278	4,007	3,779	4,492	4,194	3,946	3,735	4,037	3,829	3,649	3,893	3,719	3,567	3,759	3,616	3,489
	3	4,226	3,795	3,461	3,195	4,119	3,725	3,416	3,166	3,594	3,329	3,112	3,472	3,247	3,059	3,359	3,170	3,008
	4	3,884	3,382	3,014	2,734	3,784	3,323	2,980	2,715	3,212	2,915	2,679	3,110	2,852	2,644	3,014	2,792	2,609
	5	3,578	3,031	2,649	2,367	3,486	2,982	2,623	2,355	2,888	2,572	2,330	2,801	2,523	2,305	2,719	2,476	2,282
	6	3,307	2,734	2,349	2,073	3,223	2,692	2,328	2,064	2,612	2,288	2,046	2,537	2,249	2,029	2,467	2,212	2,012
	7	3,067	2,480	2,100	1,833	2,991	2,444	2,083	1,827	2,376	2,051	1,814	2,312	2,020	1,801	2,252	1,990	1,789
	8	2,855	2,264	1,892	1,637	2,785	2,233	1,878	1,632	2,174	1,852	1,622	2,119	1,826	1,613	2,067	1,802	1,603
	9	2,666	2,077	1,717	1,473	2,604	2,051	1,705	1,469	2,000	1,684	1,462	1,952	1,662	1,455	1,907	1,642	1,447
	10	2,499	1,916	1,567	1,335	2,442	1,893	1,558	1,332	1,849	1,540	1,327	1,807	1,522	1,321	1,768	1,505	1,315

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	59.4 fc	16.6 ft
6.5 ft	42.5 fc	19.6 ft
7.5 ft	31.9 fc	22.6 ft
8.0 ft	28.1 fc	24.1 ft
10.0 ft	18.0 fc	30.1 ft
12.0 ft	12.5 fc	36.2 ft
14.0 ft	9.2 fc	42.2 ft
16.0 ft	7.0 fc	48.2 ft
20.0 ft	4.5 fc	60.3 ft
24.0 ft	3.1 fc	72.3 ft
28.0 ft	2.3 fc	84.4 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	2,736	2,736	2,736
45.00°	2,636	2,636	2,636
55.00°	2,505	2,505	2,505
65.00°	1,356	1,356	1,356
75.00°	400	400	400
85.00°	174	174	174

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	16.6	15.4	16.9	17.2	15.0	16.6	15.4	16.9	17.2
	3H	15.2	16.5	15.5	16.9	17.2	15.2	16.5	15.5	16.9	17.2
	4H	15.2	16.4	15.5	16.8	17.2	15.2	16.4	15.5	16.8	17.2
	6H	15.1	16.3	15.5	16.7	17.1	15.1	16.3	15.5	16.7	17.1
	8H	15.1	16.2	15.5	16.6	17.0	15.1	16.2	15.5	16.6	17.0
	12H	15.1	16.2	15.5	16.5	17.0	15.1	16.2	15.5	16.5	17.0
4H	2H	15.2	16.5	15.6	16.8	17.2	15.2	16.5	15.6	16.8	17.2
	3H	15.4	16.4	15.8	16.8	17.2	15.4	16.4	15.8	16.8	17.2
	4H	15.4	16.3	15.8	16.7	17.2	15.4	16.3	15.8	16.7	17.2
	6H	15.4	16.2	15.8	16.6	17.1	15.4	16.2	15.8	16.6	17.1
	8H	15.3	16.1	15.8	16.5	17.0	15.3	16.1	15.8	16.5	17.0
	12H	15.3	16.0	15.8	16.5	16.9	15.3	16.0	15.8	16.5	16.9
8H	4H	15.3	16.1	15.8	16.5	17.0	15.3	16.1	15.8	16.5	17.0
	6H	15.3	15.9	15.8	16.4	16.9	15.3	15.9	15.8	16.4	16.9
	8H	15.3	15.8	15.8	16.4	16.8	15.3	15.8	15.8	16.4	16.8
	12H	15.3	15.8	15.8	16.3	16.8	15.3	15.8	15.8	16.3	16.8
12H	4H	15.3	15.9	15.8	16.4	16.9	15.3	15.9	15.8	16.4	16.9
	6H	15.3	15.8	15.8	16.3	16.8	15.3	15.8	15.8	16.3	16.8
	8H	15.3	15.8	15.8	16.2	16.8	15.3	15.8	15.8	16.2	16.8

Corrected UGR values based on total output lumens

SHR = 1.0