

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

ME1314DGV 55L 35K EX TF2

Espresso Downlight Pendant with regressed 3 inch domed diffuser

Test Number

SP-00255_53

Test Date

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	4205
Efficacy	107.82 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

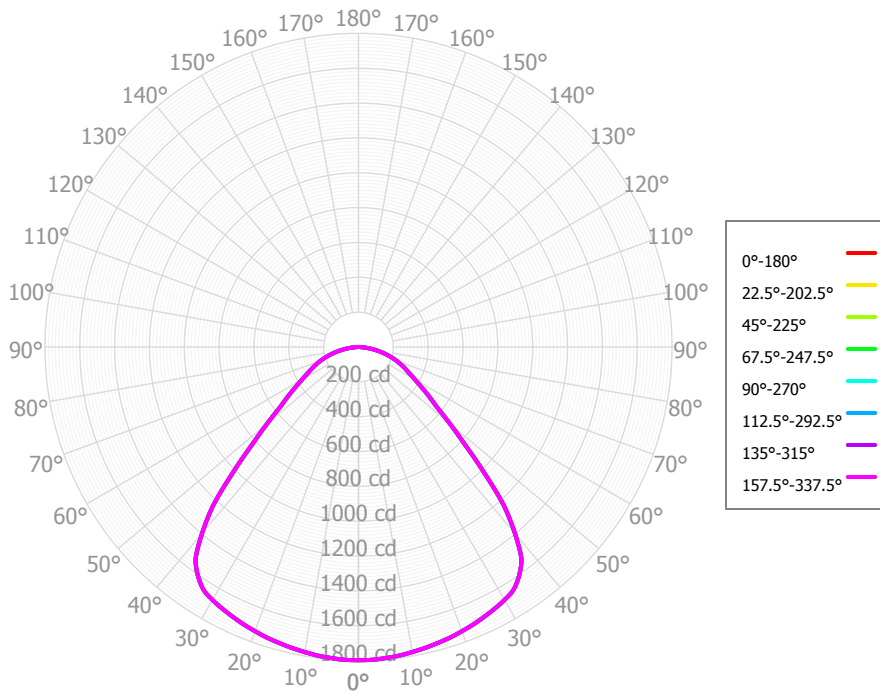
Full Beam Angle

0° - 180°	93°
90° - 270°	93°

IES File Header Contents

Keyword	Value
TEST	SP-00255_53
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
ISSUEDATE	4/1/2019
UPDATE	5/31/2019
LUMCAT	ME1314DGV 55L 35K EX TF2
LUMINAIRE	Espresso Downlight Pendant with regressed 3 inch domed diffuser
LAMPCAT	N/A
LAMP	N/A
OTHER	Beam Angle: 93.2 degrees
OTHER	CCT Output Multipliers: 27K x 0.97, 30K x 0.98, 40K x 1.03
OTHER	Total luminaire wattages is approximate
OTHER	This report prepared by Spectrum Lighting
_CRI	80+
_CCTMULT	27K x 0.97, 30K x 0.98, 40K x 1.03
_LAMPMULT	15L x 0.27, 27L x 0.46, 37L x 0.68

Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	173.30	4.12%	90.00° - 100.00°	1.32	0.03%
10.00° - 20.00°	497.77	11.84%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	789.53	18.78%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	990.79	23.56%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	788.68	18.76%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	449.84	10.70%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	295.63	7.03%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	173.96	4.14%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	44.30	1.05%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	4,203.80	99.97%	0.00° - 180.00°	4,205.12	100.00%

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	5,006	5,006	5,006	5,006	4,889	4,889	4,889	4,889	4,672	4,672	4,672	4,473	4,473	4,473	4,290	4,290	4,204
	1	4,640	4,467	4,312	4,172	4,528	4,372	4,232	4,104	4,196	4,081	3,976	4,034	3,941	3,855	3,885	3,810	3,731
	2	4,277	3,974	3,724	3,514	4,171	3,897	3,667	3,473	3,751	3,559	3,393	3,617	3,457	3,317	3,493	3,361	3,244
	3	3,945	3,553	3,249	3,007	3,846	3,488	3,207	2,981	3,367	3,127	2,930	3,255	3,051	2,880	3,151	2,979	2,832
	4	3,646	3,194	2,863	2,610	3,555	3,140	2,831	2,592	3,038	2,770	2,558	2,944	2,712	2,525	2,856	2,657	2,492
	5	3,378	2,887	2,544	2,291	3,294	2,842	2,520	2,279	2,756	2,473	2,256	2,676	2,427	2,232	2,601	2,384	2,210
	6	3,137	2,624	2,279	2,031	3,061	2,585	2,260	2,023	2,512	2,222	2,006	2,444	2,186	1,989	2,380	2,152	1,973
	7	2,922	2,396	2,055	1,816	2,853	2,363	2,039	1,810	2,301	2,010	1,797	2,242	1,981	1,785	2,188	1,953	1,773
	8	2,729	2,198	1,864	1,635	2,666	2,170	1,852	1,630	2,117	1,827	1,621	2,066	1,804	1,612	2,019	1,781	1,603
	9	2,555	2,026	1,701	1,482	2,499	2,001	1,691	1,478	1,955	1,671	1,471	1,911	1,651	1,464	1,870	1,632	1,457
	10	2,399	1,874	1,560	1,351	2,348	1,853	1,551	1,348	1,813	1,534	1,342	1,775	1,518	1,337	1,739	1,502	1,332

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	59.4 fc	11.6 ft
6.5 ft	42.6 fc	13.7 ft
7.5 ft	32.0 fc	15.8 ft
8.0 ft	28.1 fc	16.9 ft
10.0 ft	18.0 fc	21.1 ft
12.0 ft	12.5 fc	25.3 ft
14.0 ft	9.2 fc	29.6 ft
16.0 ft	7.0 fc	33.8 ft
20.0 ft	4.5 fc	42.2 ft
24.0 ft	3.1 fc	50.7 ft
28.0 ft	2.3 fc	59.1 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	17.1	18.6	17.5	18.9	19.2	17.1	18.6	17.5	18.9	19.2
	3H	18.8	20.1	19.2	20.4	20.8	18.8	20.1	19.2	20.4	20.8
	4H	19.4	20.7	19.8	21.0	21.4	19.4	20.7	19.8	21.0	21.4
	6H	19.9	21.0	20.3	21.4	21.8	19.9	21.0	20.3	21.4	21.8
	8H	20.0	21.1	20.5	21.5	21.9	20.0	21.1	20.5	21.5	21.9
	12H	20.1	21.1	20.5	21.5	21.9	20.1	21.1	20.5	21.5	21.9
4H	2H	17.7	18.9	18.1	19.2	19.6	17.7	18.9	18.1	19.2	19.6
	3H	19.6	20.6	20.0	21.0	21.4	19.6	20.6	20.0	21.0	21.4
	4H	20.3	21.3	20.8	21.7	22.1	20.3	21.3	20.8	21.7	22.1
	6H	20.9	21.7	21.4	22.2	22.6	20.9	21.7	21.4	22.2	22.6
	8H	21.1	21.8	21.6	22.3	22.8	21.1	21.8	21.6	22.3	22.8
	12H	21.2	21.9	21.7	22.3	22.8	21.2	21.9	21.7	22.3	22.8
8H	4H	20.6	21.4	21.1	21.8	22.3	20.6	21.4	21.1	21.8	22.3
	6H	21.3	21.9	21.8	22.4	22.9	21.3	21.9	21.8	22.4	22.9
	8H	21.6	22.1	22.1	22.6	23.1	21.6	22.1	22.1	22.6	23.1
	12H	21.7	22.2	22.2	22.7	23.3	21.7	22.2	22.2	22.7	23.3
12H	4H	20.6	21.3	21.1	21.8	22.3	20.6	21.3	21.1	21.8	22.3
	6H	21.4	21.9	21.9	22.4	22.9	21.4	21.9	21.9	22.4	22.9
	8H	21.7	22.1	22.2	22.6	23.2	21.7	22.1	22.2	22.6	23.2

Corrected UGR values based on total output lumens

SHR = 1.0