

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

ME1314DGV 37L 35K EX TF2

Espresso Downlight Pendant with regressed 3 inch domed diffuser

### **Test Number**

SP-00255\_53\_M-37L

### **Test Date**

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

### Summary of Results

#### Power

Input Watts	26 W
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#### Lumen Output

Output Lumens	2859
Efficacy	109.98 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

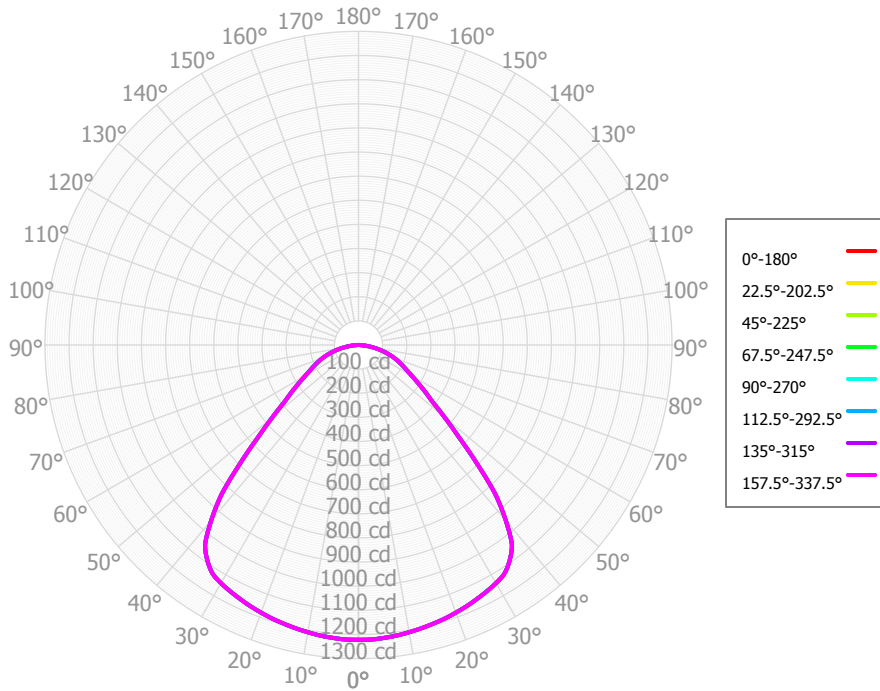
#### Full Beam Angle

0° - 180°	93°
90° - 270°	93°

### IES File Header Contents

Keyword	Value
TEST	SP-00255_53_M-37L
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
ISSUEDATE	4/1/2019
UPDATE	5/31/2019
LUMCAT	ME1314DGV 37L 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, scaled from 55L

### Candela Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	117.84	4.12%	90.00° - 100.00°	0.90	0.03%
10.00° - 20.00°	338.49	11.84%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	536.88	18.78%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	673.74	23.56%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	536.30	18.76%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	305.89	10.70%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	201.03	7.03%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	118.29	4.14%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	30.12	1.05%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	2,858.58	99.97%	0.00° - 180.00°	2,859.48	100.00%



### Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

	<b>pfc</b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%
	<b>pcc</b>	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	0%
	<b>pw</b>	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	30%
<b>RCR</b>	<b>0</b>	3,404	3,404	3,404	3,404	3,325	3,325	3,325	3,325	3,177	3,177	3,177	3,041	3,041	3,041	2,917	2,917	2,859
	<b>1</b>	3,155	3,037	2,932	2,837	3,079	2,973	2,878	2,791	2,853	2,775	2,703	2,743	2,680	2,621	2,642	2,591	2,537
	<b>2</b>	2,908	2,703	2,533	2,390	2,836	2,650	2,494	2,362	2,551	2,420	2,307	2,459	2,351	2,255	2,375	2,286	2,206
	<b>3</b>	2,682	2,416	2,209	2,045	2,615	2,372	2,181	2,027	2,290	2,126	1,992	2,213	2,075	1,958	2,142	2,026	1,926
	<b>4</b>	2,479	2,172	1,947	1,775	2,417	2,135	1,925	1,763	2,066	1,884	1,739	2,002	1,844	1,717	1,942	1,807	1,695
	<b>5</b>	2,297	1,963	1,730	1,558	2,240	1,932	1,714	1,550	1,874	1,681	1,534	1,820	1,651	1,518	1,769	1,621	1,503
	<b>6</b>	2,133	1,784	1,550	1,381	2,082	1,758	1,537	1,375	1,708	1,511	1,364	1,662	1,487	1,353	1,619	1,463	1,342
	<b>7</b>	1,987	1,629	1,397	1,235	1,940	1,607	1,387	1,231	1,565	1,366	1,222	1,525	1,347	1,214	1,488	1,328	1,206
	<b>8</b>	1,856	1,495	1,268	1,112	1,813	1,476	1,259	1,109	1,439	1,243	1,102	1,405	1,227	1,096	1,373	1,211	1,090
	<b>9</b>	1,738	1,377	1,157	1,008	1,699	1,361	1,150	1,005	1,329	1,136	1,000	1,300	1,123	996	1,272	1,110	991
	<b>10</b>	1,632	1,274	1,061	918	1,596	1,260	1,055	916	1,233	1,043	913	1,207	1,032	909	1,182	1,022	905

### Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	40.4 fc	11.6 ft
6.5 ft	28.9 fc	13.7 ft
7.5 ft	21.7 fc	15.8 ft
8.0 ft	19.1 fc	16.9 ft
10.0 ft	12.2 fc	21.1 ft
12.0 ft	8.5 fc	25.3 ft
14.0 ft	6.2 fc	29.6 ft
16.0 ft	4.8 fc	33.8 ft
20.0 ft	3.1 fc	42.2 ft
24.0 ft	2.1 fc	50.7 ft
28.0 ft	1.6 fc	59.1 ft

### Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
<b>0.00°</b>	12,452	12,452	12,452
<b>45.00°</b>	9,983	9,983	9,983
<b>55.00°</b>	5,965	5,965	5,965
<b>65.00°</b>	4,866	4,866	4,866
<b>75.00°</b>	4,415	4,415	4,415
<b>85.00°</b>	2,760	2,760	2,760

### UGR CIE 190:2010

<b>Ceiling reflectance</b>		<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>
<b>Wall reflectance</b>		<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>
<b>Plane reflectance</b>		<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>Room dimensions</b>		<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>2H</b>	<b>2H</b>	15.8	17.3	16.2	17.6	17.9	15.8	17.3	16.2	17.6	17.9
	<b>3H</b>	17.4	18.7	17.8	19.1	19.4	17.4	18.7	17.8	19.1	19.4
	<b>4H</b>	18.1	19.3	18.5	19.7	20.0	18.1	19.3	18.5	19.7	20.0
	<b>6H</b>	18.6	19.7	19.0	20.1	20.4	18.6	19.7	19.0	20.1	20.4
	<b>8H</b>	18.7	19.8	19.1	20.2	20.6	18.7	19.8	19.1	20.2	20.6
	<b>12H</b>	18.8	19.8	19.2	20.2	20.6	18.8	19.8	19.2	20.2	20.6
<b>4H</b>	<b>2H</b>	16.3	17.5	16.7	17.9	18.3	16.3	17.5	16.7	17.9	18.3
	<b>3H</b>	18.2	19.2	18.6	19.6	20.0	18.2	19.2	18.6	19.6	20.0
	<b>4H</b>	19.0	19.9	19.4	20.3	20.8	19.0	19.9	19.4	20.3	20.8
	<b>6H</b>	19.6	20.4	20.1	20.8	21.3	19.6	20.4	20.1	20.8	21.3
	<b>8H</b>	19.8	20.5	20.2	20.9	21.4	19.8	20.5	20.2	20.9	21.4
	<b>12H</b>	19.9	20.5	20.3	21.0	21.5	19.9	20.5	20.3	21.0	21.5
<b>8H</b>	<b>4H</b>	19.3	20.0	19.8	20.5	20.9	19.3	20.0	19.8	20.5	20.9
	<b>6H</b>	20.0	20.6	20.5	21.1	21.6	20.0	20.6	20.5	21.1	21.6
	<b>8H</b>	20.2	20.8	20.7	21.3	21.8	20.2	20.8	20.7	21.3	21.8
	<b>12H</b>	20.4	20.9	20.9	21.4	21.9	20.4	20.9	20.9	21.4	21.9
<b>12H</b>	<b>4H</b>	19.3	20.0	19.8	20.4	20.9	19.3	20.0	19.8	20.4	20.9
	<b>6H</b>	20.0	20.6	20.6	21.1	21.6	20.0	20.6	20.6	21.1	21.6
	<b>8H</b>	20.3	20.8	20.8	21.3	21.9	20.3	20.8	20.8	21.3	21.9

Corrected UGR values based on total output lumens

SHR = 1.0