

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

SD1208GV 15L 35K XX MF0 XX MWI  
Nom 12" diam Cafe series pendant mounted luminaire

### **Test Number**

SP-00981

### **Test Date**

12/20/2019

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

### Summary of Results

#### Power

Input Watts	11 W
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#### Lumen Output

Output Lumens	1002
Efficacy	91.12 lm/W

#### Luminous Dimensions

0° - 180° Size	-1
90° - 270° Size	-1
Height	0

#### Spacing Criterion

Two luminaires, plane 0°	1.35
Two luminaires, plane 90°	1.35
Four luminaires	1.43

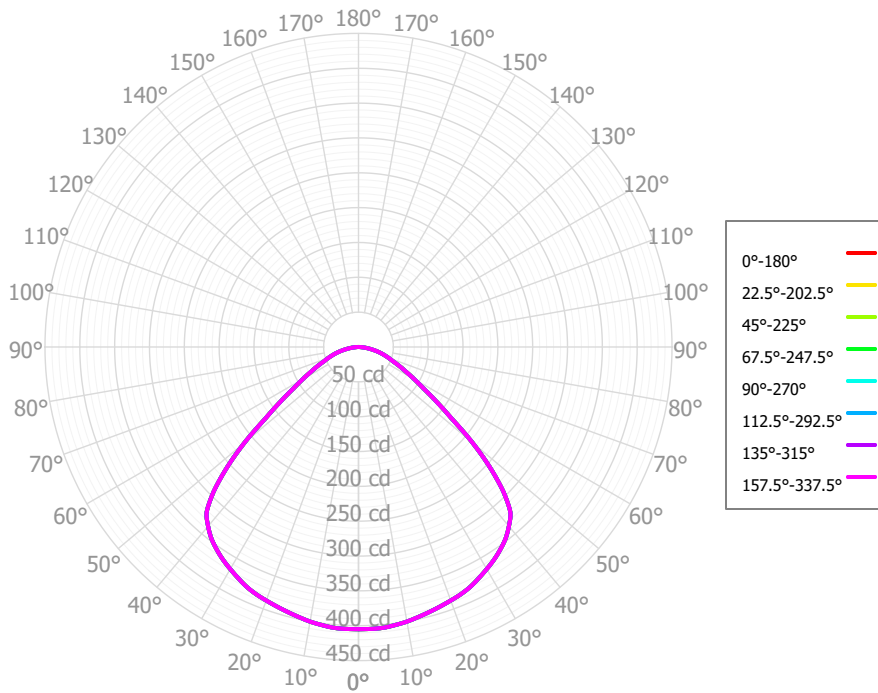
#### Full Beam Angle

0° - 180°	101°
90° - 270°	101°

### IES File Header Contents

Keyword	Value
TEST	SP-00981
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	12/20/2019
ISSUEDATE	3/5/2020
LUMCAT	SD1208GV 15L 35K XX MF0 XX MWI
LUMINAIRE	Nom 12" diam Cafe series pendant mounted luminaire
OTHER	Beam Angle: 102 deg
OTHER	3" long, small frosted glass jar
LAMPCAT	N/A
LAMP	N/A GV
OTHER	CCT Output Multipliers: 27K x 0.97, 30K x 0.99, 40K x 1.03
OTHER	Total luminaire wattage is approximate
OTHER	This report prepared by Spectrum Lighting
_CRI	80
_CCTMULT	27K x 0.97, 30K x 0.99, 40K x 1.03
_LAMPMULT	N/A

### Candela Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	39.05	3.90%	90.00° - 100.00°	0.14	0.01%
10.00° - 20.00°	111.35	11.11%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	175.01	17.46%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	221.80	22.13%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	220.65	22.01%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	126.13	12.58%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	65.30	6.51%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	34.08	3.40%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	8.79	0.88%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	1,002.15	99.99%	0.00° - 180.00°	1,002.28	100.00%



### 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%	10%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	30%
	0	1,193	1,193	1,193	1,193	1,165	1,165	1,165	1,165	1,114	1,114	1,114	1,066	1,066	1,066	1,023	1,023	1,023	1,002
	1	1,107	1,066	1,029	996	1,080	1,043	1,010	980	1,001	974	949	963	941	920	927	910	893	891
	2	1,019	947	888	838	994	929	874	828	894	848	809	862	824	791	833	801	773	784
	3	939	845	772	714	915	829	762	708	801	743	696	774	725	684	749	708	673	693
	4	866	757	678	617	844	744	670	613	720	656	604	697	642	597	676	629	589	615
	5	800	682	600	539	780	671	594	536	651	583	530	632	572	525	614	561	519	550
	6	742	618	535	475	724	609	530	473	591	521	469	575	513	465	560	504	461	494
	7	690	563	480	422	673	555	476	421	540	469	418	526	462	415	513	456	412	447
	8	643	515	434	379	628	508	431	377	495	425	375	483	420	373	472	414	371	406
	9	601	473	395	342	587	467	392	341	456	387	339	446	383	338	436	378	336	371
	10	563	437	361	310	551	432	359	310	422	355	308	413	351	307	404	347	306	341

### Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	13.4 fc	13.4 ft
6.5 ft	9.6 fc	15.8 ft
7.5 ft	7.2 fc	18.3 ft
8.0 ft	6.3 fc	19.5 ft
10.0 ft	4.1 fc	24.3 ft
12.0 ft	2.8 fc	29.2 ft
14.0 ft	2.1 fc	34.1 ft
16.0 ft	1.6 fc	39.0 ft
20.0 ft	1.0 fc	48.7 ft
24.0 ft	0.7 fc	58.4 ft
28.0 ft	0.5 fc	68.2 ft

### Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
<b>0.00°</b>	5,551	5,551	5,551
<b>45.00°</b>	5,707	5,707	5,707
<b>55.00°</b>	3,262	3,262	3,262
<b>65.00°</b>	2,103	2,103	2,103
<b>75.00°</b>	1,718	1,718	1,718
<b>85.00°</b>	1,081	1,081	1,081

### 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>	13.7	15.2	14.0	15.5	15.8	13.7	15.2	14.0	15.5	15.8
	<b>3H</b>	14.7	16.1	15.1	16.4	16.8	14.7	16.1	15.1	16.4	16.8
	<b>4H</b>	15.2	16.4	15.6	16.8	17.2	15.2	16.4	15.6	16.8	17.2
	<b>6H</b>	15.5	16.7	15.9	17.0	17.4	15.5	16.7	15.9	17.0	17.4
	<b>8H</b>	15.6	16.7	16.0	17.1	17.5	15.6	16.7	16.0	17.1	17.5
	<b>12H</b>	15.6	16.7	16.1	17.1	17.5	15.6	16.7	16.1	17.1	17.5
<b>4H</b>	<b>2H</b>	14.0	15.3	14.4	15.6	16.0	14.0	15.3	14.4	15.6	16.0
	<b>3H</b>	15.3	16.3	15.7	16.8	17.2	15.3	16.3	15.7	16.8	17.2
	<b>4H</b>	15.9	16.8	16.3	17.2	17.7	15.9	16.8	16.3	17.2	17.7
	<b>6H</b>	16.3	17.1	16.8	17.6	18.0	16.3	17.1	16.8	17.6	18.0
	<b>8H</b>	16.5	17.2	16.9	17.7	18.1	16.5	17.2	16.9	17.7	18.1
	<b>12H</b>	16.5	17.2	17.0	17.7	18.2	16.5	17.2	17.0	17.7	18.2
<b>8H</b>	<b>4H</b>	16.1	16.8	16.6	17.3	17.8	16.1	16.8	16.6	17.3	17.8
	<b>6H</b>	16.6	17.3	17.1	17.7	18.2	16.6	17.3	17.1	17.7	18.2
	<b>8H</b>	16.8	17.4	17.3	17.9	18.4	16.8	17.4	17.3	17.9	18.4
	<b>12H</b>	16.9	17.4	17.4	17.9	18.5	16.9	17.4	17.4	17.9	18.5
<b>12H</b>	<b>4H</b>	16.1	16.8	16.6	17.3	17.7	16.1	16.8	16.6	17.3	17.7
	<b>6H</b>	16.7	17.2	17.2	17.7	18.2	16.7	17.2	17.2	17.7	18.2
	<b>8H</b>	16.9	17.4	17.4	17.9	18.4	16.9	17.4	17.4	17.9	18.4

Corrected UGR values based on total output lumens

SHR = 1.0