

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

RB70GV 15L 35K XX MF0 XX MWI  
Nom 6" diam Cafe series pendant mounted luminaire

### **Test Number**

SP-00980

### **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	680
Efficacy	61.82 lm/W

#### Luminous Dimensions

0° - 180° Size	-0.54
90° - 270° Size	-0.54
Height	0

#### Spacing Criterion

Two luminaires, plane 0°	1.21
Two luminaires, plane 90°	1.21
Four luminaires	1.12

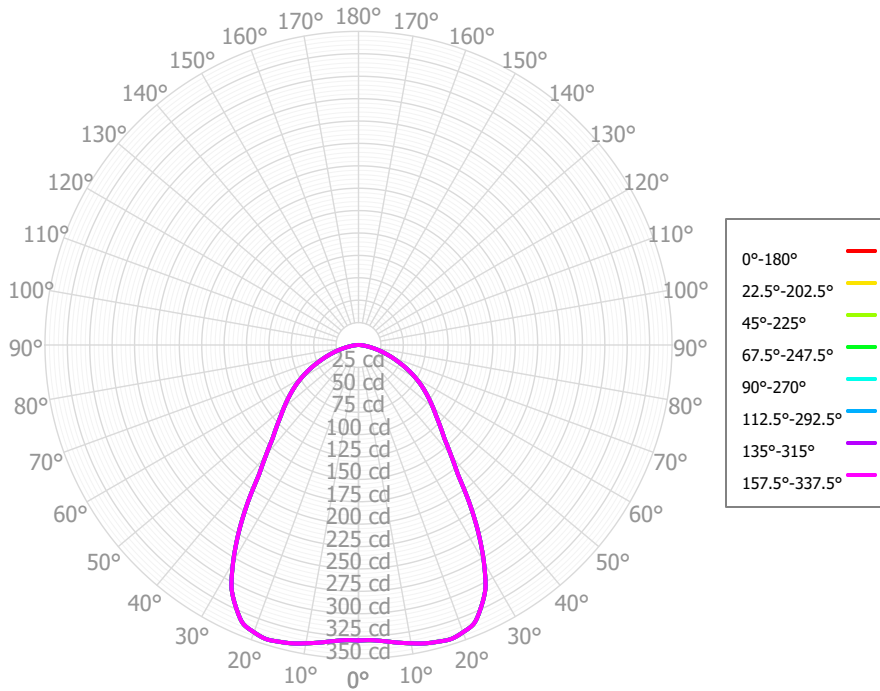
#### Full Beam Angle

0° - 180°	77°
90° - 270°	77°

### IES File Header Contents

Keyword	Value
TEST	SP-00980
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	12/20/2019
ISSUEDATE	3/5/2020
LUMCAT	RB70GV 15L 35K XX MF0 XX MWI
LUMINAIRE	Nom 6" diam Cafe series pendant mounted luminaire
OTHER	Beam Angle: 76 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°	32.41	4.77%	90.00° - 100.00°	0.10	0.01%
10.00° - 20.00°	96.99	14.26%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	146.83	21.59%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	134.59	19.79%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	100.80	14.82%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	81.34	11.96%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	55.21	8.12%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	26.06	3.83%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	5.72	0.84%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	679.95	99.99%	0.00° - 180.00°	680.05	100.00%



### Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

<b>RCR</b>	<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>0</b>	810	810	810	810	791	791	791	791	756	756	756	723	723	723	694	694	680
	<b>1</b>	752	724	700	678	734	709	687	667	681	662	646	654	640	626	630	619	606
	<b>2</b>	694	646	606	573	677	633	597	566	610	579	553	588	563	541	568	547	536
	<b>3</b>	641	579	530	492	625	568	524	488	549	511	479	531	498	471	514	487	477
	<b>4</b>	594	522	469	429	579	513	464	426	497	454	421	482	445	415	468	436	427
	<b>5</b>	552	474	419	379	538	466	415	377	453	408	373	440	400	370	428	393	386
	<b>6</b>	514	432	378	338	502	426	375	337	415	369	334	404	363	332	393	357	350
	<b>7</b>	480	397	343	305	469	391	340	304	382	335	302	372	331	300	363	326	320
	<b>8</b>	450	366	313	277	440	361	311	276	353	307	274	345	303	273	337	300	294
	<b>9</b>	423	339	287	253	414	335	286	252	328	283	251	321	279	250	314	276	272
	<b>10</b>	398	315	265	232	390	312	264	232	305	261	231	299	259	230	293	256	252

### Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	10.9 fc	8.8 ft
6.5 ft	7.8 fc	10.4 ft
7.5 ft	5.9 fc	12.0 ft
8.0 ft	5.2 fc	12.8 ft
10.0 ft	3.3 fc	16.0 ft
12.0 ft	2.3 fc	19.2 ft
14.0 ft	1.7 fc	22.4 ft
16.0 ft	1.3 fc	25.6 ft
20.0 ft	0.8 fc	32.0 ft
24.0 ft	0.6 fc	38.5 ft
28.0 ft	0.4 fc	44.9 ft

### Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
<b>0.00°</b>	15,504	15,504	15,504
<b>45.00°</b>	8,598	8,598	8,598
<b>55.00°</b>	7,460	7,460	7,460
<b>65.00°</b>	6,203	6,203	6,203
<b>75.00°</b>	4,433	4,433	4,433
<b>85.00°</b>	2,368	2,368	2,368

### 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>	17.4	18.8	17.7	19.1	19.4	17.4	18.8	17.7	19.1	19.4
	<b>3H</b>	18.7	20.0	19.1	20.3	20.7	18.7	20.0	19.1	20.3	20.7
	<b>4H</b>	19.1	20.4	19.6	20.7	21.1	19.1	20.4	19.6	20.7	21.1
	<b>6H</b>	19.4	20.5	19.8	20.9	21.3	19.4	20.5	19.8	20.9	21.3
	<b>8H</b>	19.4	20.5	19.9	20.9	21.3	19.4	20.5	19.9	20.9	21.3
	<b>12H</b>	19.4	20.5	19.9	20.8	21.3	19.4	20.5	19.9	20.8	21.3
<b>4H</b>	<b>2H</b>	17.9	19.1	18.3	19.4	19.8	17.9	19.1	18.3	19.4	19.8
	<b>3H</b>	19.4	20.4	19.8	20.8	21.2	19.4	20.4	19.8	20.8	21.2
	<b>4H</b>	19.9	20.8	20.4	21.2	21.7	19.9	20.8	20.4	21.2	21.7
	<b>6H</b>	20.2	21.0	20.7	21.5	21.9	20.2	21.0	20.7	21.5	21.9
	<b>8H</b>	20.3	21.0	20.8	21.5	22.0	20.3	21.0	20.8	21.5	22.0
	<b>12H</b>	20.3	21.0	20.8	21.5	21.9	20.3	21.0	20.8	21.5	21.9
<b>8H</b>	<b>4H</b>	20.1	20.8	20.5	21.3	21.7	20.1	20.8	20.5	21.3	21.7
	<b>6H</b>	20.5	21.1	21.0	21.6	22.0	20.5	21.1	21.0	21.6	22.0
	<b>8H</b>	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
	<b>12H</b>	20.7	21.1	21.2	21.6	22.2	20.7	21.1	21.2	21.6	22.2
<b>12H</b>	<b>4H</b>	20.1	20.7	20.6	21.2	21.7	20.1	20.7	20.6	21.2	21.7
	<b>6H</b>	20.5	21.0	21.0	21.5	22.0	20.5	21.0	21.0	21.5	22.0
	<b>8H</b>	20.6	21.1	21.1	21.6	22.2	20.6	21.1	21.1	21.6	22.2

Corrected UGR values based on total output lumens

SHR = 1.0