

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

BU40GV 15L 35K XX MF0 XX MWI
Nom 6" diam Cafe series pendant mounted luminaire

Test Number

SP-00976

Test Date

12/23/2019

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	744
Efficacy	67.63 lm/W

Luminous Dimensions

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

Spacing Criterion

Two luminaires, plane 0°	1.13
Two luminaires, plane 90°	1.13
Four luminaires	1.07

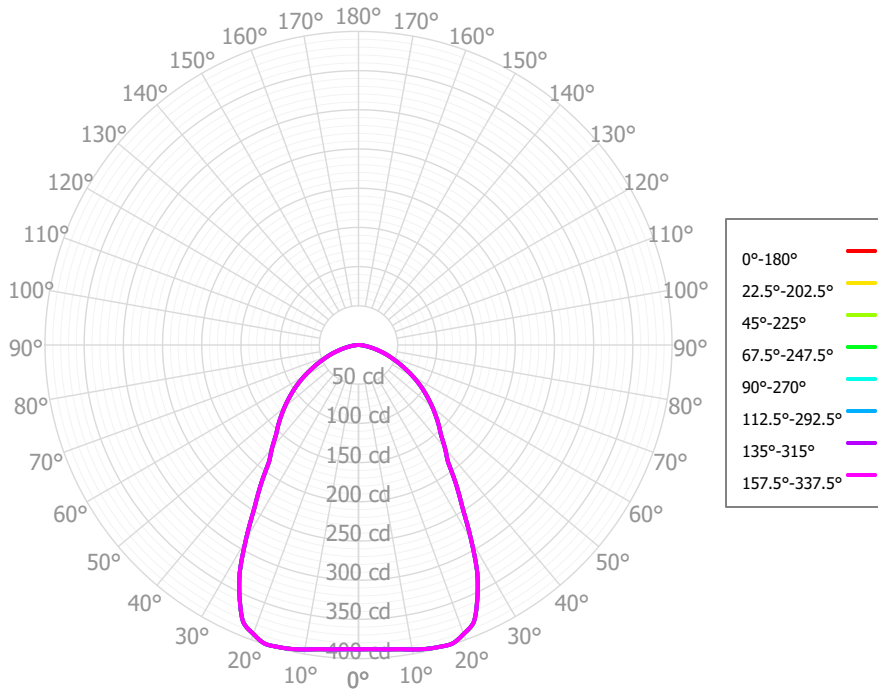
Full Beam Angle

0° - 180°	73°
90° - 270°	73°

IES File Header Contents

Keyword	Value
TEST	SP-00976
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	12/23/2019
ISSUEDATE	3/5/2020
LUMCAT	BU40GV 15L 35K XX MF0 XX MWI
LUMINAIRE	Nom 6" diam Cafe series pendant mounted luminaire
OTHER	Beam Angle: 72 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°	37.94	5.10%	90.00° - 100.00°	0.13	0.02%
10.00° - 20.00°	112.55	15.13%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	161.45	21.70%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	136.68	18.37%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	112.02	15.06%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	90.65	12.18%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	58.87	7.91%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	27.60	3.71%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	6.07	0.82%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	743.82	99.98%	0.00° - 180.00°	743.95	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%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	30%
	0	886	886	886	886	865	865	865	865	827	827	827	791	791	791	759	759	744
	1	823	793	766	742	803	776	752	730	745	726	708	717	701	686	691	678	666
	2	760	708	665	629	742	694	655	621	669	636	607	645	618	593	623	601	588
	3	703	635	583	541	686	624	575	536	603	561	527	583	548	518	565	535	524
	4	652	573	516	473	636	564	511	470	546	500	463	530	490	457	514	480	470
	5	606	521	462	418	591	513	458	416	498	449	412	484	441	408	471	434	425
	6	565	476	417	374	551	469	413	373	457	407	370	445	400	367	434	394	387
	7	528	437	379	338	516	432	376	336	421	371	334	411	366	332	401	361	354
	8	495	404	346	307	484	399	344	306	390	340	304	381	336	303	373	332	326
	9	465	374	319	281	456	370	317	280	362	313	279	355	310	278	347	307	301
	10	439	349	295	259	430	345	293	258	338	290	257	331	287	256	325	285	280

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	12.8 fc	8.1 ft
6.5 ft	9.2 fc	9.6 ft
7.5 ft	6.9 fc	11.1 ft
8.0 ft	6.1 fc	11.8 ft
10.0 ft	3.9 fc	14.8 ft
12.0 ft	2.7 fc	17.7 ft
14.0 ft	2.0 fc	20.7 ft
16.0 ft	1.5 fc	23.6 ft
20.0 ft	1.0 fc	29.6 ft
24.0 ft	0.7 fc	35.5 ft
28.0 ft	0.5 fc	41.4 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	18,251	18,251	18,251
45.00°	9,628	9,628	9,628
55.00°	8,322	8,322	8,322
65.00°	6,588	6,588	6,588
75.00°	4,644	4,644	4,644
85.00°	2,624	2,624	2,624

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	17.7	19.2	18.1	19.5	19.8	17.7	19.2	18.1	19.5	19.8
	3H	19.0	20.3	19.4	20.6	21.0	19.0	20.3	19.4	20.6	21.0
	4H	19.4	20.6	19.8	20.9	21.3	19.4	20.6	19.8	20.9	21.3
	6H	19.6	20.7	20.0	21.1	21.5	19.6	20.7	20.0	21.1	21.5
	8H	19.7	20.7	20.1	21.1	21.5	19.7	20.7	20.1	21.1	21.5
	12H	19.7	20.7	20.1	21.1	21.5	19.7	20.7	20.1	21.1	21.5
4H	2H	18.2	19.4	18.6	19.7	20.1	18.2	19.4	18.6	19.7	20.1
	3H	19.6	20.6	20.0	21.0	21.4	19.6	20.6	20.0	21.0	21.4
	4H	20.1	21.0	20.6	21.4	21.9	20.1	21.0	20.6	21.4	21.9
	6H	20.4	21.2	20.9	21.7	22.1	20.4	21.2	20.9	21.7	22.1
	8H	20.5	21.2	21.0	21.7	22.1	20.5	21.2	21.0	21.7	22.1
	12H	20.5	21.2	21.0	21.7	22.1	20.5	21.2	21.0	21.7	22.1
8H	4H	20.3	21.0	20.7	21.4	21.9	20.3	21.0	20.7	21.4	21.9
	6H	20.7	21.2	21.2	21.7	22.2	20.7	21.2	21.2	21.7	22.2
	8H	20.8	21.3	21.3	21.8	22.3	20.8	21.3	21.3	21.8	22.3
	12H	20.8	21.3	21.3	21.8	22.4	20.8	21.3	21.3	21.8	22.4
12H	4H	20.3	20.9	20.8	21.4	21.9	20.3	20.9	20.8	21.4	21.9
	6H	20.7	21.2	21.2	21.7	22.2	20.7	21.2	21.2	21.7	22.2
	8H	20.8	21.3	21.3	21.8	22.3	20.8	21.3	21.3	21.8	22.3

Corrected UGR values based on total output lumens

SHR = 1.0