

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

AC1007GV 15L 35K XX MF0 XX MWI
Nom 10" diam Cafe series pendant mounted luminaire

Test Number

SP-00975

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	1120
Efficacy	101.8 lm/W

Luminous Dimensions

0° - 180° Size	-0.83
90° - 270° Size	-0.83
Height	0

Spacing Criterion

Two luminaires, plane 0°	1.15
Two luminaires, plane 90°	1.15
Four luminaires	1.38

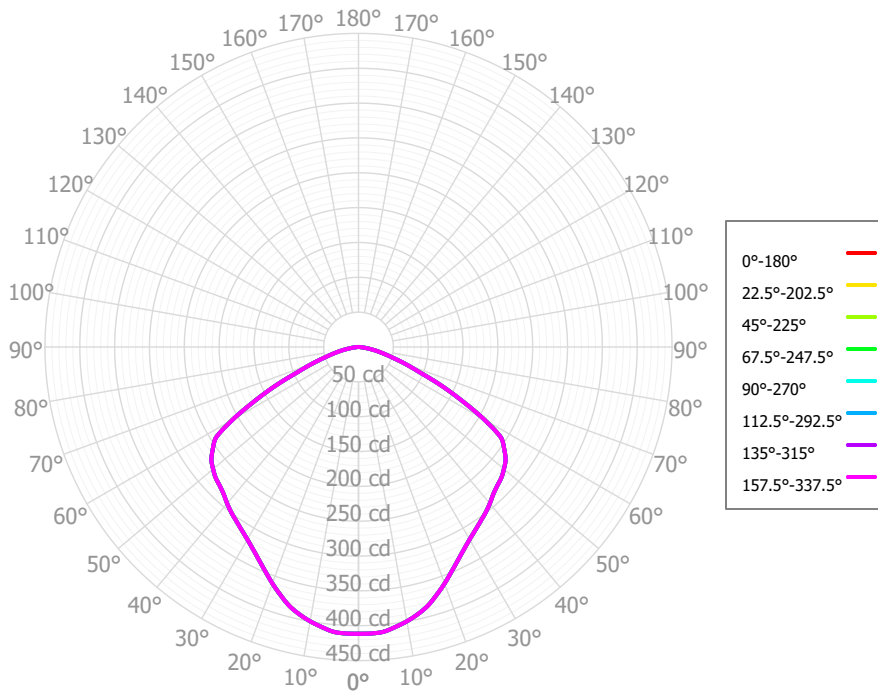
Full Beam Angle

0° - 180°	120°
90° - 270°	120°

IES File Header Contents

Keyword	Value
TEST	SP-00975
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	12/23/2019
ISSUEDATE	3/5/2020
LUMCAT	AC1007GV 15L 35K XX MF0 XX MWI
LUMINAIRE	Nom 10" diam Cafe series pendant mounted luminaire
OTHER	Beam Angle: 118 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°	39.36	3.52%	90.00° - 100.00°	0.20	0.02%
10.00° - 20.00°	107.79	9.63%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	155.99	13.93%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	191.66	17.12%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	218.29	19.49%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	224.78	20.07%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	131.72	11.76%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	42.95	3.84%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	7.05	0.63%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	1,119.59	99.98%	0.00° - 180.00°	1,119.79	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%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	30%
	0	1,333	1,333	1,333	1,333	1,302	1,302	1,302	1,302	1,244	1,244	1,244	1,191	1,191	1,191	1,142	1,142	1,142
	1	1,228	1,178	1,134	1,094	1,198	1,153	1,113	1,076	1,106	1,073	1,042	1,062	1,035	1,011	1,022	1,001	981
	2	1,119	1,031	958	897	1,090	1,010	943	887	971	915	866	934	887	846	901	862	828
	3	1,020	906	817	747	993	888	806	740	855	785	727	824	764	714	796	745	702
	4	933	801	705	631	908	786	696	626	758	680	618	732	664	609	708	650	601
	5	857	714	614	541	833	701	608	538	678	595	532	656	583	526	635	571	520
	6	790	641	541	470	768	630	536	468	610	526	464	591	517	459	574	507	455
	7	731	580	482	413	711	571	478	412	553	470	409	537	462	405	522	454	403
	8	679	528	433	367	662	520	429	366	505	423	364	491	416	361	478	410	359
	9	634	484	392	329	618	477	389	328	464	383	327	452	378	325	441	373	323
	10	594	446	357	298	580	440	355	297	429	350	296	418	346	294	408	341	293

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	13.6 fc	19.2 ft
6.5 ft	9.7 fc	22.7 ft
7.5 ft	7.3 fc	26.2 ft
8.0 ft	6.4 fc	27.9 ft
10.0 ft	4.1 fc	34.9 ft
12.0 ft	2.9 fc	41.9 ft
14.0 ft	2.1 fc	48.8 ft
16.0 ft	1.6 fc	55.8 ft
20.0 ft	1.0 fc	69.8 ft
24.0 ft	0.7 fc	83.7 ft
28.0 ft	0.5 fc	97.7 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	8,188	8,188	8,188
45.00°	7,924	7,924	7,924
55.00°	8,857	8,857	8,857
65.00°	6,182	6,182	6,182
75.00°	2,955	2,955	2,955
85.00°	1,005	1,005	1,005

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	19.9	21.5	20.3	21.8	22.1	19.9	21.5	20.3	21.8	22.1
	3H	20.5	22.0	20.9	22.3	22.7	20.5	22.0	20.9	22.3	22.7
	4H	20.7	22.0	21.1	22.4	22.8	20.7	22.0	21.1	22.4	22.8
	6H	20.7	22.0	21.1	22.4	22.7	20.7	22.0	21.1	22.4	22.7
	8H	20.7	21.9	21.1	22.3	22.7	20.7	21.9	21.1	22.3	22.7
	12H	20.7	21.9	21.1	22.2	22.7	20.7	21.9	21.1	22.2	22.7
4H	2H	20.2	21.6	20.6	21.9	22.3	20.2	21.6	20.6	21.9	22.3
	3H	21.0	22.1	21.4	22.5	22.9	21.0	22.1	21.4	22.5	22.9
	4H	21.1	22.2	21.6	22.6	23.0	21.1	22.2	21.6	22.6	23.0
	6H	21.3	22.1	21.7	22.6	23.0	21.3	22.1	21.7	22.6	23.0
	8H	21.3	22.1	21.7	22.5	23.0	21.3	22.1	21.7	22.5	23.0
	12H	21.2	22.0	21.7	22.5	22.9	21.2	22.0	21.7	22.5	22.9
8H	4H	21.2	22.0	21.7	22.5	22.9	21.2	22.0	21.7	22.5	22.9
	6H	21.3	22.0	21.8	22.5	23.0	21.3	22.0	21.8	22.5	23.0
	8H	21.3	21.9	21.8	22.4	22.9	21.3	21.9	21.8	22.4	22.9
	12H	21.3	21.9	21.8	22.4	22.9	21.3	21.9	21.8	22.4	22.9
12H	4H	21.2	21.9	21.7	22.4	22.9	21.2	21.9	21.7	22.4	22.9
	6H	21.3	21.9	21.8	22.4	22.9	21.3	21.9	21.8	22.4	22.9
	8H	21.3	21.9	21.8	22.4	22.9	21.3	21.9	21.8	22.4	22.9

Corrected UGR values based on total output lumens

SHR = 1.0