

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

FP1906GV 15L 35K XX MF0 XX MWI
Nom 19" diam Cafe series pendant mounted luminaire

Test Number

SP-00978

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	1088
Efficacy	98.87 lm/W

Luminous Dimensions

0° - 180° Size	-1.58
90° - 270° Size	-1.58
Height	0

Spacing Criterion

Two luminaires, plane 0°	1.3
Two luminaires, plane 90°	1.3
Four luminaires	1.49

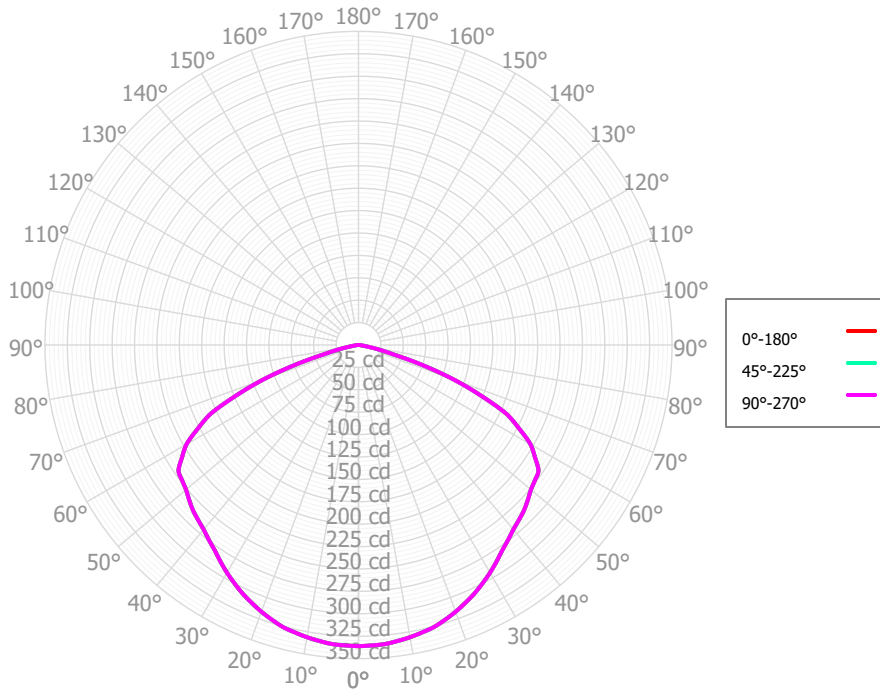
Full Beam Angle

0° - 180°	132°
90° - 270°	132°

IES File Header Contents

Keyword	Value
TEST	SP-00978
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	12/20/2019
ISSUEDATE	3/5/2019
LUMCAT	FP1906GV 15L 35K XX MF0 XX MWI
LUMINAIRE	Nom 19" diam Cafe series pendant mounted luminaire
OTHER	Beam Angle: 132 deg
OTHER	4" 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°	33.18	3.05%	90.00° - 100.00°	0.10	0.01%
10.00° - 20.00°	91.87	8.44%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	141.10	12.96%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	175.83	16.16%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	201.60	18.52%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	215.81	19.83%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	173.18	15.91%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	52.22	4.80%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	3.48	0.32%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	1,088.26	99.99%	0.00° - 180.00°	1,088.36	100.00%

Candela Distribution

	0.00°	45.00°	90.00°
0.00°	336.19	336.19	336.19
2.50°	335.73	335.73	335.73
5.00°	335.17	335.17	335.17
7.50°	333.36	333.36	333.36
10.00°	331.26	331.26	331.26
12.50°	328.64	328.64	328.64
15.00°	325.92	325.92	325.92
17.50°	321.57	321.57	321.57
20.00°	316.91	316.91	316.91
22.50°	311.59	311.59	311.59
25.00°	306.16	306.16	306.16
27.50°	299.93	299.93	299.93
30.00°	293.58	293.58	293.58
32.50°	286.74	286.74	286.74
35.00°	279.84	279.84	279.84
37.50°	274.32	274.32	274.32
40.00°	268.95	268.95	268.95
42.50°	265.00	265.00	265.00
45.00°	261.18	261.18	261.18
47.50°	256.31	256.31	256.31
50.00°	251.36	251.36	251.36
52.50°	248.26	248.26	248.26
55.00°	245.26	245.26	245.26
57.50°	233.67	233.67	233.67
60.00°	221.73	221.73	221.73
62.50°	202.29	202.29	202.29
65.00°	182.66	182.66	182.66
67.50°	148.45	148.45	148.45
70.00°	114.11	114.11	114.11
72.50°	75.90	75.90	75.90
75.00°	39.43	39.43	39.43
77.50°	22.36	22.36	22.36
80.00°	9.29	9.29	9.29
82.50°	3.40	3.40	3.40
85.00°	2.46	2.46	2.46
87.50°	1.91	1.91	1.91
90.00°	0.74	0.74	0.74
92.50°	0.00	0.00	0.00
95.00°	0.00	0.00	0.00
97.50°	0.00	0.00	0.00
100.00°	0.00	0.00	0.00
102.50°	0.00	0.00	0.00
105.00°	0.00	0.00	0.00
107.50°	0.00	0.00	0.00
110.00°	0.00	0.00	0.00
112.50°	0.00	0.00	0.00

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%	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	1,296	1,296	1,296	1,296	1,266	1,266	1,266	1,266	1,209	1,209	1,209	1,158	1,158	1,158	1,110	1,110	1,110	1,088
	1	1,188	1,138	1,093	1,053	1,159	1,113	1,073	1,036	1,067	1,034	1,003	1,025	998	972	986	964	943	943
	2	1,077	987	913	851	1,048	967	899	841	928	871	821	892	844	802	859	820	784	802
	3	977	861	771	699	950	843	760	693	811	739	680	781	720	668	753	701	657	685
	4	890	757	659	584	865	742	651	580	714	635	572	689	620	564	665	605	556	592
	5	815	671	571	497	791	659	564	494	635	552	488	613	540	483	593	529	477	517
	6	749	600	500	429	728	590	495	426	570	485	422	551	476	419	534	467	415	457
	7	692	541	443	375	673	532	439	373	515	431	370	499	424	367	484	416	365	408
	8	643	492	397	331	625	484	393	330	469	387	328	456	381	326	443	375	324	367
	9	599	450	358	296	584	443	355	295	430	350	294	419	345	292	407	340	290	333
	10	561	414	326	267	547	408	323	266	397	319	265	387	315	264	377	310	262	305

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	11.1 fc	24.8 ft
6.5 ft	8.0 fc	29.3 ft
7.5 ft	6.0 fc	33.8 ft
8.0 ft	5.3 fc	36.0 ft
10.0 ft	3.4 fc	45.1 ft
12.0 ft	2.3 fc	54.1 ft
14.0 ft	1.7 fc	63.1 ft
16.0 ft	1.3 fc	72.1 ft
20.0 ft	0.8 fc	90.1 ft
24.0 ft	0.6 fc	108.1 ft
28.0 ft	0.4 fc	126.2 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	1,846	1,846	1,846
45.00°	2,028	2,028	2,028
55.00°	2,347	2,347	2,347
65.00°	2,373	2,373	2,373
75.00°	836	836	836
85.00°	155	155	155

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	15.2	16.9	15.6	17.2	17.5	15.2	16.9	15.6	17.2	17.5
	3H	16.8	18.3	17.2	18.7	19.0	16.8	18.3	17.2	18.7	19.0
	4H	17.0	18.4	17.4	18.8	19.1	17.0	18.4	17.4	18.8	19.1
	6H	17.0	18.3	17.4	18.7	19.1	17.0	18.3	17.4	18.7	19.1
	8H	16.9	18.2	17.4	18.6	19.0	16.9	18.2	17.4	18.6	19.0
	12H	16.9	18.1	17.4	18.5	18.9	16.9	18.1	17.4	18.5	18.9
4H	2H	16.0	17.4	16.3	17.7	18.1	16.0	17.4	16.3	17.7	18.1
	3H	17.6	18.8	18.0	19.2	19.6	17.6	18.8	18.0	19.2	19.6
	4H	17.8	18.8	18.2	19.3	19.7	17.8	18.8	18.2	19.3	19.7
	6H	17.8	18.7	18.2	19.2	19.6	17.8	18.7	18.2	19.2	19.6
	8H	17.8	18.6	18.2	19.1	19.5	17.8	18.6	18.2	19.1	19.5
	12H	17.7	18.5	18.2	19.0	19.5	17.7	18.5	18.2	19.0	19.5
8H	4H	17.8	18.7	18.3	19.1	19.6	17.8	18.7	18.3	19.1	19.6
	6H	17.8	18.5	18.3	19.0	19.5	17.8	18.5	18.3	19.0	19.5
	8H	17.8	18.4	18.3	18.9	19.4	17.8	18.4	18.3	18.9	19.4
	12H	17.8	18.3	18.3	18.8	19.4	17.8	18.3	18.3	18.8	19.4
12H	4H	17.8	18.6	18.3	19.1	19.5	17.8	18.6	18.3	19.1	19.5
	6H	17.8	18.5	18.3	18.9	19.4	17.8	18.5	18.3	18.9	19.4
	8H	17.8	18.3	18.3	18.8	19.4	17.8	18.3	18.3	18.8	19.4

Corrected UGR values based on total output lumens

SHR = 1.0