

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

PAC0624GV 15L 35K xx FG6

Nom. 6" diam x 24" H tubular luminaire with wrap around slotted cover

Test Number

SP-00970_M-15L

Test Date

12/19/2019

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

Summary of Results

Power

Input Watts	19 W
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Lumen Output

Output Lumens	1330
Efficacy	69.99 lm/W

Luminous Dimensions

0° - 180° Size	-0.5
90° - 270° Size	-0.5
Height	1.83

Spacing Criterion

Two luminaires, plane 0°	0.57
Two luminaires, plane 90°	0.57
Four luminaires	0.71

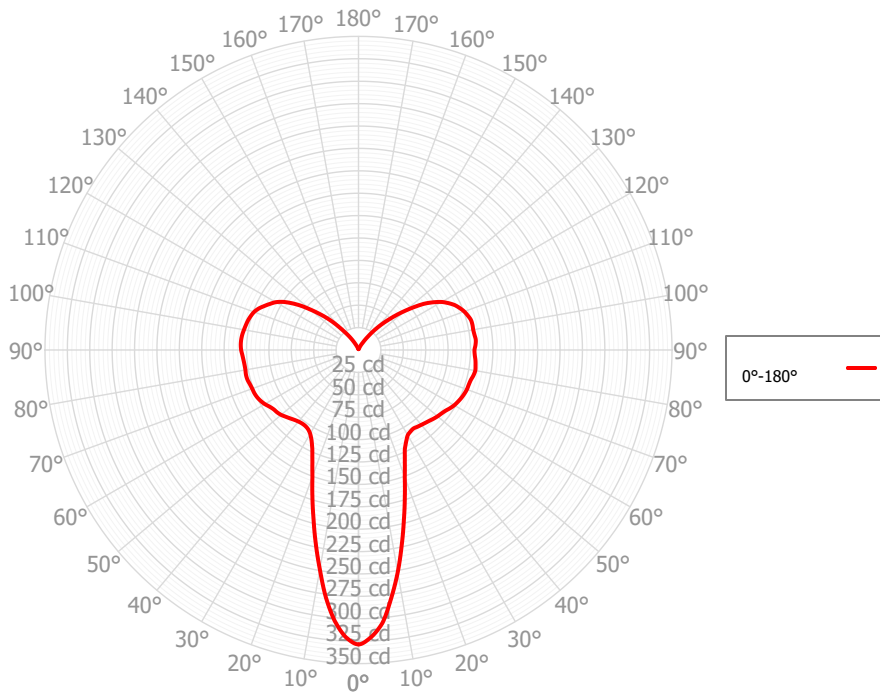
Full Beam Angle

0° - 180°	37°
90° - 270°	0°

IES File Header Contents

Keyword	Value
TEST	SP-00970_M-15L
TESTLAB	Spectrum Lighting Photometric Lab VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	12/19/2019
ISSUEDATE	1/7/2020
LUMCAT	PAC0624GV 15L 35K xx FG6
LUMINAIRE	Nom. 6" diam x 24" H tubular luminaire with wrap around slotted cover
OTHER	Beam Angle (downlight): 37 degrees
OTHER	Uplight: 39.8%
OTHER	Downlight: 60.2%
LAMP	N/A
LAMPCAT	N/A
OTHER	CCT Multipliers: 27K x 0.97, 30K x 0.99, 40K x 1.03
OTHER	Total luminaire watts is approximate
OTHER	This report generated by Spectrum Lighting, scaled from 27L

Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	27.56	2.07%	90.00° - 100.00°	142.75	10.74%
10.00° - 20.00°	54.17	4.07%	100.00° - 110.00°	135.59	10.20%
20.00° - 30.00°	57.30	4.31%	100.00° - 120.00°	251.62	18.92%
30.00° - 40.00°	66.73	5.02%	120.00° - 130.00°	80.80	6.08%
40.00° - 50.00°	85.30	6.42%	130.00° - 140.00°	39.37	2.96%
50.00° - 60.00°	105.44	7.93%	140.00° - 150.00°	12.75	0.96%
60.00° - 70.00°	124.46	9.36%	150.00° - 160.00°	2.65	0.20%
70.00° - 80.00°	136.46	10.26%	160.00° - 170.00°	0.40	0.03%
80.00° - 90.00°	141.85	10.67%	170.00° - 180.00°	0.12	0.01%
0.00° - 90.00°	799.28	60.11%	0.00° - 180.00°	1,329.72	100.00%

Candela Distribution

	0.00°	180.00°
0.00°	328.66	328.66
2.50°	320.94	321.07
5.00°	306.03	303.76
7.50°	279.55	278.70
10.00°	252.09	248.58
12.50°	223.01	220.67
15.00°	195.87	194.22
17.50°	171.97	171.16
20.00°	151.01	150.40
22.50°	135.10	134.52
25.00°	122.37	121.98
27.50°	115.23	113.52
30.00°	109.93	107.93
32.50°	107.94	104.83
35.00°	107.00	103.53
37.50°	108.02	103.46
40.00°	109.11	104.28
42.50°	110.37	105.84
45.00°	111.79	107.96
47.50°	113.56	110.26
50.00°	115.20	112.71
52.50°	116.59	114.42
55.00°	118.39	115.54
57.50°	121.05	117.72
60.00°	123.40	120.76
62.50°	125.11	123.08
65.00°	126.66	124.82
67.50°	127.86	125.85
70.00°	128.78	126.27
72.50°	129.06	127.10
75.00°	129.76	128.30
77.50°	131.41	128.62
80.00°	132.38	128.19
82.50°	131.80	128.29
85.00°	131.06	128.87
87.50°	129.94	129.79
90.00°	129.51	131.03
92.50°	130.75	131.57
95.00°	131.40	131.48
97.50°	130.59	130.89
100.00°	130.06	129.84
102.50°	130.28	128.76
105.00°	129.90	127.67
107.50°	127.93	126.09
110.00°	125.61	124.04
112.50°	122.35	120.72

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	1,457	1,457	1,457	1,457	1,361	1,361	1,361	1,361	1,183	1,183	1,183	1,020	1,020	1,020	870	870	870	799
	1	1,263	1,176	1,098	1,028	1,170	1,093	1,024	961	938	883	833	795	753	714	663	631	601	571
	2	1,127	995	886	794	1,040	924	826	743	789	712	645	665	605	552	550	504	463	452
	3	1,017	859	736	639	937	797	687	598	680	593	520	573	503	445	473	419	373	374
	4	925	752	625	528	852	698	584	496	597	505	432	503	430	370	416	358	310	320
	5	847	666	540	447	780	619	505	420	531	438	367	449	374	315	372	312	265	279
	6	779	596	473	384	718	555	443	362	477	386	317	405	330	273	337	277	231	248
	7	721	537	418	335	665	501	393	316	433	343	278	369	295	241	308	249	204	224
	8	669	488	374	296	619	456	352	279	395	309	247	338	267	214	285	226	183	204
	9	624	446	337	264	578	418	318	249	364	280	221	312	243	193	264	207	165	187
	10	585	411	306	237	542	385	289	224	336	255	200	290	223	175	247	191	151	174

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	10.9 fc	3.7 ft
6.5 ft	7.8 fc	4.3 ft
7.5 ft	5.8 fc	5.0 ft
8.0 ft	5.1 fc	5.3 ft
10.0 ft	3.3 fc	6.6 ft
12.0 ft	2.3 fc	8.0 ft
14.0 ft	1.7 fc	9.3 ft
16.0 ft	1.3 fc	10.6 ft
20.0 ft	0.8 fc	13.3 ft
24.0 ft	0.6 fc	15.9 ft
28.0 ft	0.4 fc	18.6 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	18,017	18,017	18,017
45.00°	1,531	1,518	1,505
55.00°	1,478	1,469	1,460
65.00°	1,495	1,489	1,484
75.00°	1,494	1,490	1,486
85.00°	1,519	1,513	1,506

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	-	-	-	-	-	-	-	-	-	-
	3H	-	-	-	-	-	-	-	-	-	-
	4H	-	-	-	-	-	-	-	-	-	-
	6H	-	-	-	-	-	-	-	-	-	-
	8H	-	-	-	-	-	-	-	-	-	-
	12H	-	-	-	-	-	-	-	-	-	-
4H	2H	-	-	-	-	-	-	-	-	-	-
	3H	-	-	-	-	-	-	-	-	-	-
	4H	-	-	-	-	-	-	-	-	-	-
	6H	-	-	-	-	-	-	-	-	-	-
	8H	-	-	-	-	-	-	-	-	-	-
	12H	-	-	-	-	-	-	-	-	-	-
8H	4H	-	-	-	-	-	-	-	-	-	-
	6H	-	-	-	-	-	-	-	-	-	-
	8H	-	-	-	-	-	-	-	-	-	-
	12H	-	-	-	-	-	-	-	-	-	-
12H	4H	-	-	-	-	-	-	-	-	-	-
	6H	-	-	-	-	-	-	-	-	-	-
	8H	-	-	-	-	-	-	-	-	-	-

Corrected UGR values based on total output lumens

SHR = 1.0