

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

AP8XT 13L 35HK XX MWI
Nom 8.5" diam x 12" H Aluminum reflector pendant

Test Number

SP-00589_3_M-13L

Test Date

10/15/2019

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

Summary of Results

Power

Input Watts	15.6 W
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Lumen Output

Output Lumens	607
Efficacy	38.9 lm/W

Luminous Dimensions

0° - 180° Size	-0.67
90° - 270° Size	-0.67
Height	0

Spacing Criterion

Two luminaires, plane 0°	0.82
Two luminaires, plane 90°	0.82
Four luminaires	0.81

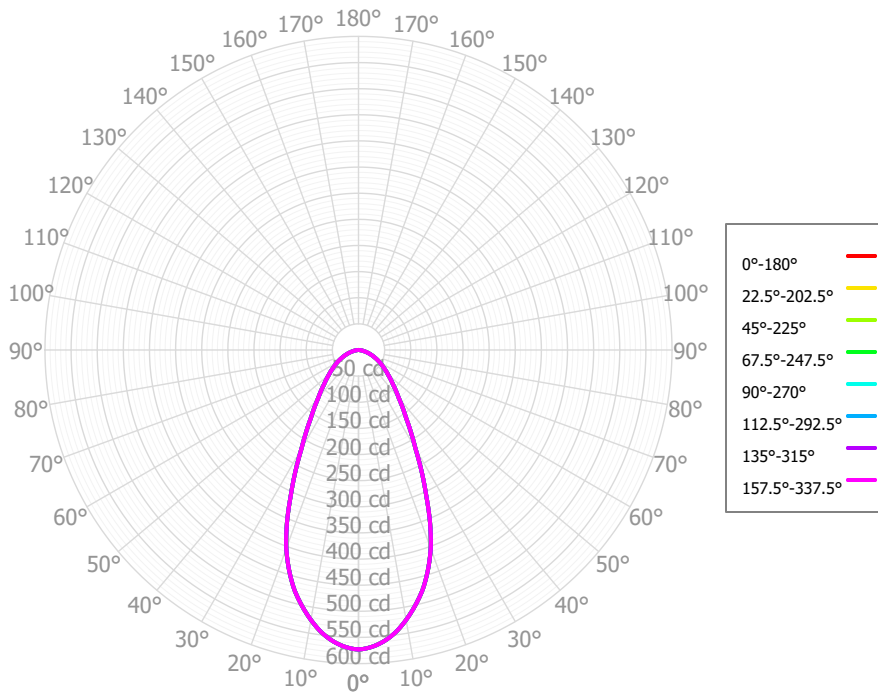
Full Beam Angle

0° - 180°	52°
90° - 270°	52°

IES File Header Contents

Keyword	Value
TEST	SP-00589_3_M-13L
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	10/15/2019
ISSUEDATE	5/15/2020
LUMCAT	AP8XT 13L 35HK XX MWI
LUMINAIRE	Nom 8.5" diam x 12" H Aluminum reflector pendant
OTHER	Matte White finish - Interior, Khatod closed sphere optic, Open aperture
OTHER	Beam Angle: 52.2 degrees
LAMPCAT	N/A
LAMP	N/A, 19mm LES
OTHER	LEDXT lumen output is the same for all available CCT's
OTHER	Total luminaire wattage is approximate
OTHER	This report prepared by Spectrum Lighting, scaled from 30L

Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	53.01	8.73%	90.00° - 100.00°	0.07	0.01%
10.00° - 20.00°	131.25	21.63%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	140.00	23.07%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	101.16	16.67%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	73.10	12.05%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	53.25	8.77%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	34.63	5.71%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	16.73	2.76%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	3.64	0.60%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	606.77	99.99%	0.00° - 180.00°	606.83	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	722	722	722	722	706	706	706	706	674	674	674	646	646	646	619	619	607
	1	677	655	636	618	662	642	624	608	617	603	590	594	582	572	573	564	555
	2	632	594	563	536	618	583	554	530	563	539	518	544	524	507	526	510	496
	3	591	541	503	473	577	532	497	469	515	485	461	500	474	453	485	464	446
	4	553	496	454	422	541	488	450	419	474	441	414	461	433	409	449	425	404
	5	519	457	413	381	508	451	410	380	439	403	376	428	397	372	418	391	369
	6	488	423	379	348	478	418	376	346	408	371	344	399	366	341	390	361	339
	7	460	393	350	320	451	389	348	319	381	344	317	373	340	315	365	336	313
	8	435	367	325	296	427	364	323	295	356	320	293	350	316	292	343	313	291
	9	412	344	303	275	405	341	301	274	335	299	273	329	296	272	324	293	271
	10	391	324	284	257	384	321	282	256	316	280	255	311	278	255	306	276	254

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	18.9 fc	5.4 ft
6.5 ft	13.6 fc	6.4 ft
7.5 ft	10.2 fc	7.3 ft
8.0 ft	9.0 fc	7.8 ft
10.0 ft	5.7 fc	9.8 ft
12.0 ft	4.0 fc	11.8 ft
14.0 ft	2.9 fc	13.7 ft
16.0 ft	2.2 fc	15.7 ft
20.0 ft	1.4 fc	19.6 ft
24.0 ft	1.0 fc	23.5 ft
28.0 ft	0.7 fc	27.4 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	17,494	17,494	17,494
45.00°	4,037	4,037	4,037
55.00°	3,145	3,145	3,145
65.00°	2,510	2,510	2,510
75.00°	1,845	1,845	1,845
85.00°	976	976	976

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	13.3	14.6	13.7	14.9	15.2	13.3	14.6	13.7	14.9	15.2
	3H	14.6	15.8	15.0	16.1	16.5	14.6	15.8	15.0	16.1	16.5
	4H	15.0	16.1	15.4	16.5	16.9	15.0	16.1	15.4	16.5	16.9
	6H	15.3	16.3	15.7	16.7	17.1	15.3	16.3	15.7	16.7	17.1
	8H	15.3	16.3	15.8	16.7	17.1	15.3	16.3	15.8	16.7	17.1
	12H	15.3	16.2	15.8	16.6	17.1	15.3	16.2	15.8	16.6	17.1
4H	2H	13.7	14.8	14.1	15.2	15.6	13.7	14.8	14.1	15.2	15.6
	3H	15.3	16.1	15.7	16.6	17.0	15.3	16.1	15.7	16.6	17.0
	4H	15.8	16.6	16.2	17.0	17.4	15.8	16.6	16.2	17.0	17.4
	6H	16.1	16.8	16.6	17.2	17.7	16.1	16.8	16.6	17.2	17.7
	8H	16.2	16.8	16.6	17.3	17.7	16.2	16.8	16.6	17.3	17.7
	12H	16.2	16.8	16.7	17.3	17.7	16.2	16.8	16.7	17.3	17.7
8H	4H	15.9	16.6	16.4	17.0	17.5	15.9	16.6	16.4	17.0	17.5
	6H	16.3	16.9	16.8	17.4	17.8	16.3	16.9	16.8	17.4	17.8
	8H	16.4	16.9	17.0	17.4	17.9	16.4	16.9	17.0	17.4	17.9
	12H	16.5	16.9	17.0	17.4	18.0	16.5	16.9	17.0	17.4	18.0
12H	4H	15.9	16.5	16.4	17.0	17.4	15.9	16.5	16.4	17.0	17.4
	6H	16.3	16.8	16.9	17.3	17.8	16.3	16.8	16.9	17.3	17.8
	8H	16.5	16.9	17.0	17.4	18.0	16.5	16.9	17.0	17.4	18.0

Corrected UGR values based on total output lumens

SHR = 1.0