

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00569_3 ~ PRDCH16SLEDGV-55L35K-EXXX-SR16FOMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00569_3_M-55L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 7/11/2017
 [UPDATE] 7/21/2017
 [LUMINAIRE] Nominal 16" Diameter x 16.5" H Prismatic Low Bay Luminaire
 [LUMCAT] PRDCH16SLEDGV-55L35K-EX-xx-SR16-FO-MW
 [OTHER] Acrylic Refractor / White Optical Acrylic Lens
 [OTHER] 129.8 Degree Beam Angle
 [LAMP] N/A
 [LAMPCAT] N/A, Min. 85 CRI
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] CCT Output Multipliers: 50K x 1.06, 40K x 1.03, 30K x 0.985, 27K x 0.971
 [OTHER] This report prepared by Spectrum Lighting, scaled from 60L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4879
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	2.00
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.36 ft (Diameter)
Luminous Width (90-270)	1.36 ft (Diameter)
Luminous Height	0.71 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5514	5489	5860
55	7435	7392	7524
65	6469	6728	6408
75	2401	2392	2308
85	788	783	734

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	865.171	865.171	865.171	865.171	865.171
5	861.802	858.205	861.999	858.935	860.128
10	846.089	846.142	845.625	844.146	842.062
15	820.027	821.253	820.980	815.969	815.843
20	788.654	787.745	786.271	779.690	779.315
25	747.141	745.865	744.664	739.420	737.452
30	700.766	699.449	699.917	692.887	692.822
35	656.016	655.285	653.805	652.283	651.102
40	668.122	654.760	637.207	685.610	675.513
45	875.729	897.463	871.784	914.352	930.790
50	1125.256	1121.420	1149.652	1114.022	1124.626
55	1121.456	1119.597	1114.922	1127.613	1134.838
60	1096.612	1118.565	1115.680	1110.363	1130.990
65	894.294	904.103	930.083	867.994	885.879
70	518.325	493.947	502.550	508.414	503.735
75	291.591	292.507	290.457	277.749	280.340
80	154.786	147.075	150.310	142.218	136.624
85	79.527	77.562	79.075	72.812	74.138
90	54.666	50.745	52.810	53.745	52.673
95	62.104	62.887	62.241	65.543	64.120
100	84.514	84.019	84.641	88.481	87.731
105	111.842	113.056	112.345	115.971	114.549
110	143.119	144.020	145.539	146.739	145.474
115	173.521	173.580	175.355	176.857	176.117
120	195.647	198.476	199.966	201.346	201.907
125	202.842	210.994	216.306	221.357	218.570
130	184.682	201.601	217.492	223.759	221.805
135	156.483	177.220	214.283	225.109	224.876
140	126.957	153.636	209.708	232.055	236.853
145	64.298	103.173	175.649	218.400	213.514
150	14.903	34.108	107.258	171.075	170.563
155	6.718	9.425	44.286	80.328	96.304
160	6.013	6.405	16.279	34.690	45.963
165	7.441	7.155	7.814	13.230	20.200
170	7.187	6.994	7.746	8.230	9.899
175	8.141	9.057	8.687	8.315	7.504
180	8.936	8.936	8.936	8.936	8.936

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Zone	Lumens	%Lamp	%Fixt
0-20	312.47	N.A.	6.40
0-30	654.95	N.A.	13.40
0-40	1073.48	N.A.	22.00
0-60	2777.53	N.A.	56.90
0-80	3944.35	N.A.	80.80
0-90	4040.32	N.A.	82.80
10-90	3958.7	N.A.	81.10
20-40	761.00	N.A.	15.60
20-50	1458.7	N.A.	29.90
40-70	2548.35	N.A.	52.20
60-80	1166.81	N.A.	23.90
70-80	322.52	N.A.	6.60
80-90	95.97	N.A.	2.00
90-110	193.38	N.A.	4.00
90-120	365.60	N.A.	7.50
90-130	554.11	N.A.	11.40
90-150	808.27	N.A.	16.60
90-180	838.48	N.A.	17.20
110-180	645.10	N.A.	13.20
0-180	4878.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.62
10-20	230.86
20-30	342.48
30-40	418.52
40-50	697.70
50-60	1006.36
60-70	844.29
70-80	322.52
80-90	95.97
90-100	72.37
100-110	121.01
110-120	172.22
120-130	188.51
130-140	156.87
140-150	97.29
150-160	25.74
160-170	3.67
170-180	0.79

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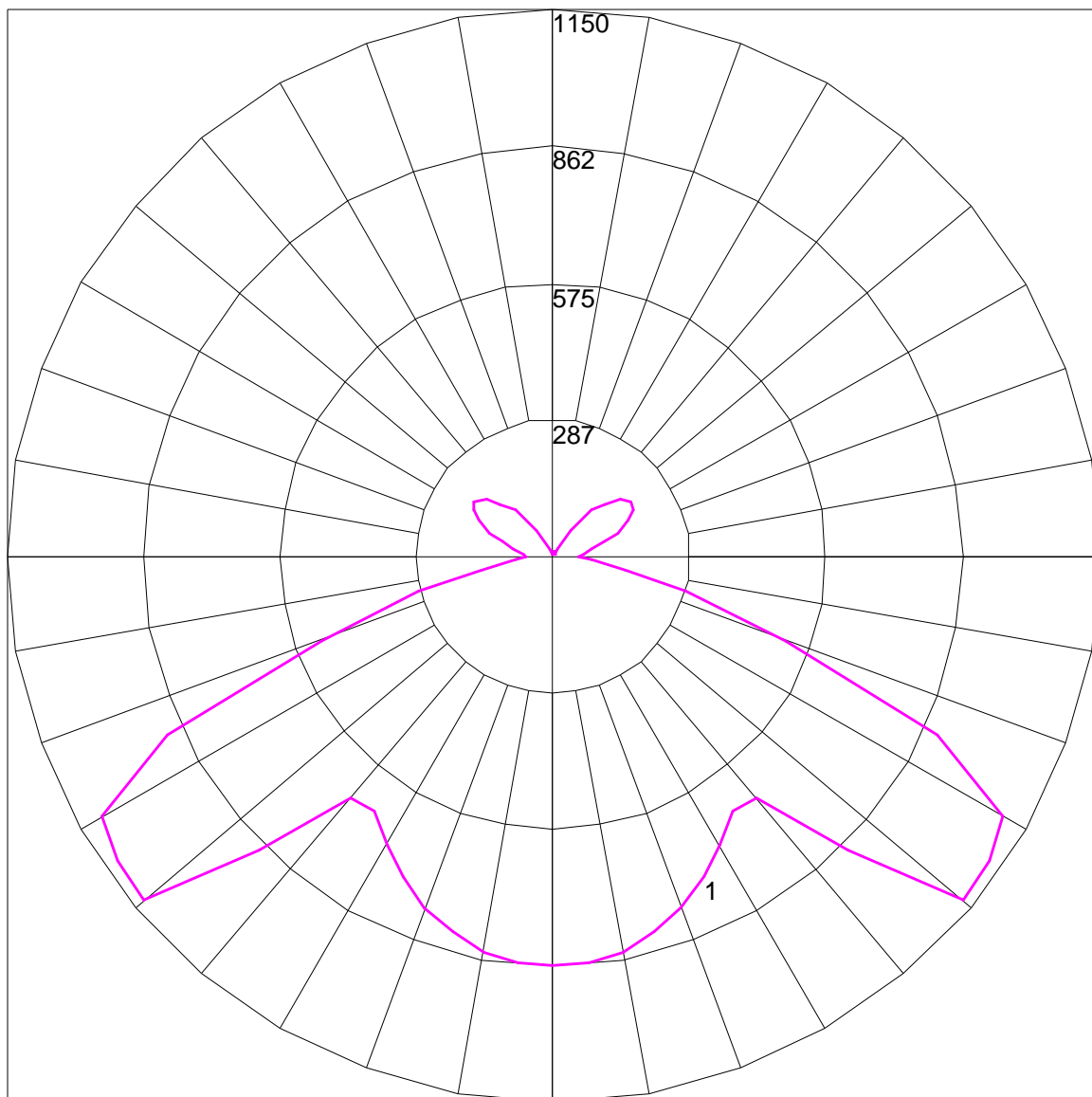
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83
1	104	98	94	89	99	94	90	86	87	83	80	80	77	75	74	72	70	66
2	93	84	76	70	88	80	73	68	74	68	63	68	63	59	62	59	56	52
3	83	72	63	55	79	69	60	54	63	56	51	58	52	48	53	49	45	42
4	75	62	52	45	71	59	51	44	55	47	41	50	44	39	46	41	37	34
5	68	54	44	37	65	52	43	36	48	40	34	44	37	32	40	35	30	28
6	62	48	38	31	59	46	37	31	42	35	29	39	32	27	36	30	26	23
7	57	43	33	27	54	41	32	26	38	30	25	35	28	23	32	26	22	20
8	53	38	29	23	50	37	29	23	34	27	21	32	25	20	29	23	19	17
9	49	35	26	20	47	34	25	20	31	24	19	29	22	18	27	21	17	15
10	46	32	24	18	44	31	23	18	29	22	17	26	20	16	25	19	15	13

POLAR GRAPH



Maximum Candela = 1149.652 Located At Horizontal Angle = 45, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180)