

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00569_6 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16PCMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00569_6_M-27L

[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-27L35K-EX-xx-SR16-PC-MW

[OTHER] Acrylic Refractor / Clear Polycarbonate Lens

[OTHER] 69.6 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	2294
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.28
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	2506	2396	2446
55	2422	2417	2430
65	2149	2233	2192
75	604	590	559
85	128	126	117

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	755.828	755.828	755.828	755.828	755.828
5	756.248	755.994	757.071	756.140	757.265
10	753.945	755.215	758.618	757.256	755.193
15	754.916	757.362	757.789	759.704	753.797
20	821.396	824.847	816.239	822.453	837.165
25	958.250	957.283	1001.093	1002.992	989.540
30	883.678	880.006	875.009	873.185	817.154
35	655.005	655.033	639.989	638.955	637.725
40	512.796	514.401	520.307	521.293	515.378
45	398.017	397.318	380.548	387.647	388.531
50	362.251	362.999	367.349	365.340	376.546
55	365.242	367.362	364.504	364.396	366.545
60	372.154	373.190	375.868	377.333	393.292
65	297.006	297.313	308.676	309.392	303.072
70	156.208	156.884	144.614	147.884	131.418
75	73.311	73.746	71.601	71.173	67.893
80	31.261	32.119	28.525	28.210	24.099
85	12.880	13.367	12.772	12.283	11.785
90	10.484	10.074	9.860	9.335	9.364
95	10.838	11.100	10.878	10.704	10.600
100	12.456	12.449	12.770	12.548	12.402
105	14.366	14.120	14.540	14.094	14.482
110	15.189	15.246	15.159	15.870	15.663
115	16.620	17.052	17.541	17.696	16.772
120	19.211	20.196	20.348	20.718	20.174
125	20.775	21.799	23.095	23.615	22.830
130	25.042	26.930	29.680	29.655	29.797
135	35.326	38.799	42.414	40.755	43.640
140	35.661	43.383	50.941	49.620	51.518
145	17.361	28.793	46.326	53.297	48.864
150	5.333	10.120	26.801	39.992	37.260
155	3.350	4.171	9.371	17.601	16.397
160	3.754	3.493	5.135	7.207	7.871
165	3.871	3.603	3.521	5.652	5.443
170	3.796	4.046	4.028	4.374	4.216
175	4.319	4.871	4.391	4.313	4.365
180	4.547	4.547	4.547	4.547	4.547

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Zone	Lumens	%Lamp	%Fixt
0-20	292.25	N.A.	12.70
0-30	716.33	N.A.	31.20
0-40	1133.36	N.A.	49.40
0-60	1784.91	N.A.	77.80
0-80	2149.51	N.A.	93.70
0-90	2167.03	N.A.	94.50
10-90	2094.83	N.A.	91.30
20-40	841.11	N.A.	36.70
20-50	1161.84	N.A.	50.60
40-70	931.63	N.A.	40.60
60-80	364.60	N.A.	15.90
70-80	84.53	N.A.	3.70
80-90	17.52	N.A.	0.80
90-110	26.96	N.A.	1.20
90-120	44.35	N.A.	1.90
90-130	65.33	N.A.	2.80
90-150	119.51	N.A.	5.20
90-180	127.28	N.A.	5.50
110-180	100.32	N.A.	4.40
0-180	2294.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.20
10-20	220.05
20-30	424.08
30-40	417.03
40-50	320.73
50-60	330.82
60-70	280.07
70-80	84.53
80-90	17.52
90-100	12.01
100-110	14.95
110-120	17.39
120-130	20.99
130-140	30.05
140-150	24.12
150-160	6.05
160-170	1.31
170-180	0.42

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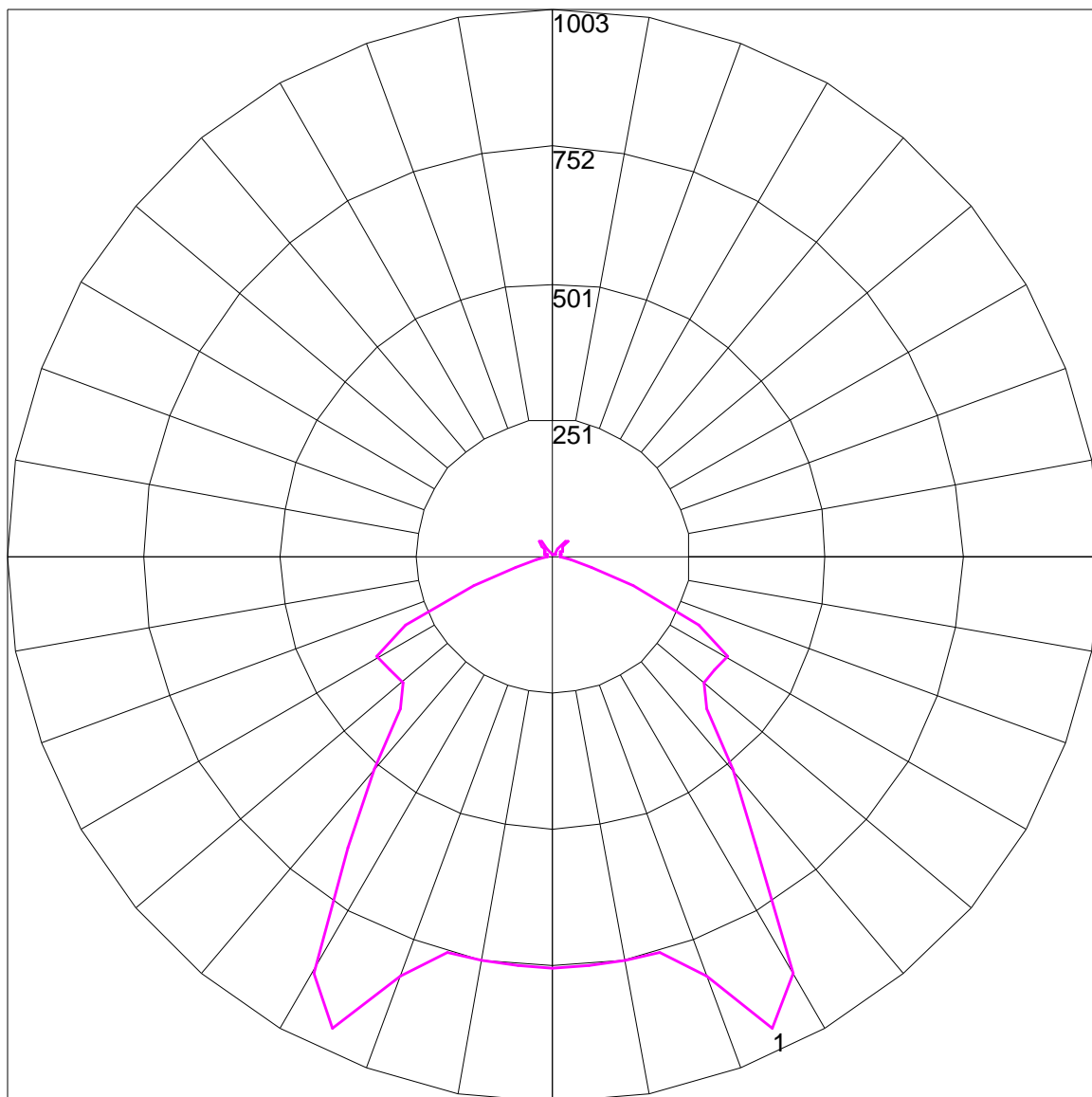
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	109	104	100	97	105	101	98	95	96	93	91	91	89	87	87	85	84	81
2	99	92	85	80	96	89	84	79	85	80	76	81	77	73	77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59
4	83	72	64	57	81	70	63	57	67	61	55	64	59	54	62	57	53	51
5	77	65	56	50	74	63	55	49	61	54	48	58	52	47	56	50	46	44
6	71	58	50	44	69	57	49	43	55	48	42	53	46	42	51	45	41	39
7	66	53	45	39	64	52	44	38	50	43	38	48	42	37	46	41	37	35
8	62	49	40	35	60	48	40	34	46	39	34	44	38	33	43	37	33	31
9	58	45	37	31	56	44	36	31	42	35	31	41	35	30	39	34	30	28
10	54	41	34	28	52	40	33	28	39	32	28	38	32	28	37	31	27	25

POLAR GRAPH



Maximum Candela = 1002.992 Located At Horizontal Angle = 67.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)