

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00569_3 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16FOMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00569_3_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-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	2258
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	18
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	2552	2540	2712
55	3441	3421	3482
65	2994	3114	2966
75	1111	1107	1068
85	365	362	340

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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	400.428	400.428	400.428	400.428	400.428
5	398.869	397.204	398.960	397.542	398.094
10	391.596	391.621	391.381	390.697	389.732
15	379.534	380.102	379.975	377.656	377.597
20	365.013	364.593	363.910	360.865	360.691
25	345.800	345.210	344.654	342.227	341.315
30	324.336	323.727	323.943	320.690	320.659
35	303.625	303.286	302.601	301.897	301.350
40	309.228	303.043	294.919	317.321	312.648
45	405.314	415.373	403.489	423.190	430.798
50	520.803	519.028	532.095	515.604	520.512
55	519.044	518.184	516.020	521.894	525.238
60	507.546	517.706	516.371	513.910	523.457
65	413.907	418.447	430.471	401.734	410.012
70	239.897	228.614	232.596	235.310	233.144
75	134.957	135.381	134.432	128.551	129.750
80	71.640	68.071	69.568	65.823	63.234
85	36.808	35.898	36.598	33.700	34.313
90	25.301	23.486	24.442	24.875	24.379
95	28.743	29.106	28.807	30.335	29.677
100	39.116	38.887	39.174	40.952	40.605
105	51.764	52.326	51.997	53.675	53.017
110	66.240	66.657	67.360	67.915	67.330
115	80.311	80.338	81.160	81.855	81.512
120	90.551	91.861	92.550	93.189	93.449
125	93.882	97.654	100.113	102.451	101.161
130	85.476	93.307	100.662	103.562	102.658
135	72.425	82.023	99.177	104.187	104.080
140	58.760	71.107	97.059	107.402	109.623
145	29.759	47.752	81.296	101.082	98.821
150	6.897	15.786	49.642	79.179	78.942
155	3.109	4.362	20.497	37.178	44.572
160	2.783	2.964	7.534	16.056	21.273
165	3.444	3.311	3.616	6.123	9.349
170	3.326	3.237	3.585	3.809	4.581
175	3.768	4.192	4.021	3.848	3.473
180	4.136	4.136	4.136	4.136	4.136

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Zone	Lumens	%Lamp	%Fixt
0-20	144.62	N.A.	6.40
0-30	303.13	N.A.	13.40
0-40	496.84	N.A.	22.00
0-60	1285.53	N.A.	56.90
0-80	1825.56	N.A.	80.80
0-90	1869.98	N.A.	82.80
10-90	1832.21	N.A.	81.10
20-40	352.21	N.A.	15.60
20-50	675.13	N.A.	29.90
40-70	1179.45	N.A.	52.20
60-80	540.04	N.A.	23.90
70-80	149.27	N.A.	6.60
80-90	44.42	N.A.	2.00
90-110	89.50	N.A.	4.00
90-120	169.21	N.A.	7.50
90-130	256.46	N.A.	11.40
90-150	374.09	N.A.	16.60
90-180	388.07	N.A.	17.20
110-180	298.57	N.A.	13.20
0-180	2258.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.78
10-20	106.85
20-30	158.51
30-40	193.70
40-50	322.92
50-60	465.77
60-70	390.76
70-80	149.27
80-90	44.42
90-100	33.50
100-110	56.01
110-120	79.71
120-130	87.25
130-140	72.61
140-150	45.03
150-160	11.91
160-170	1.70
170-180	0.37

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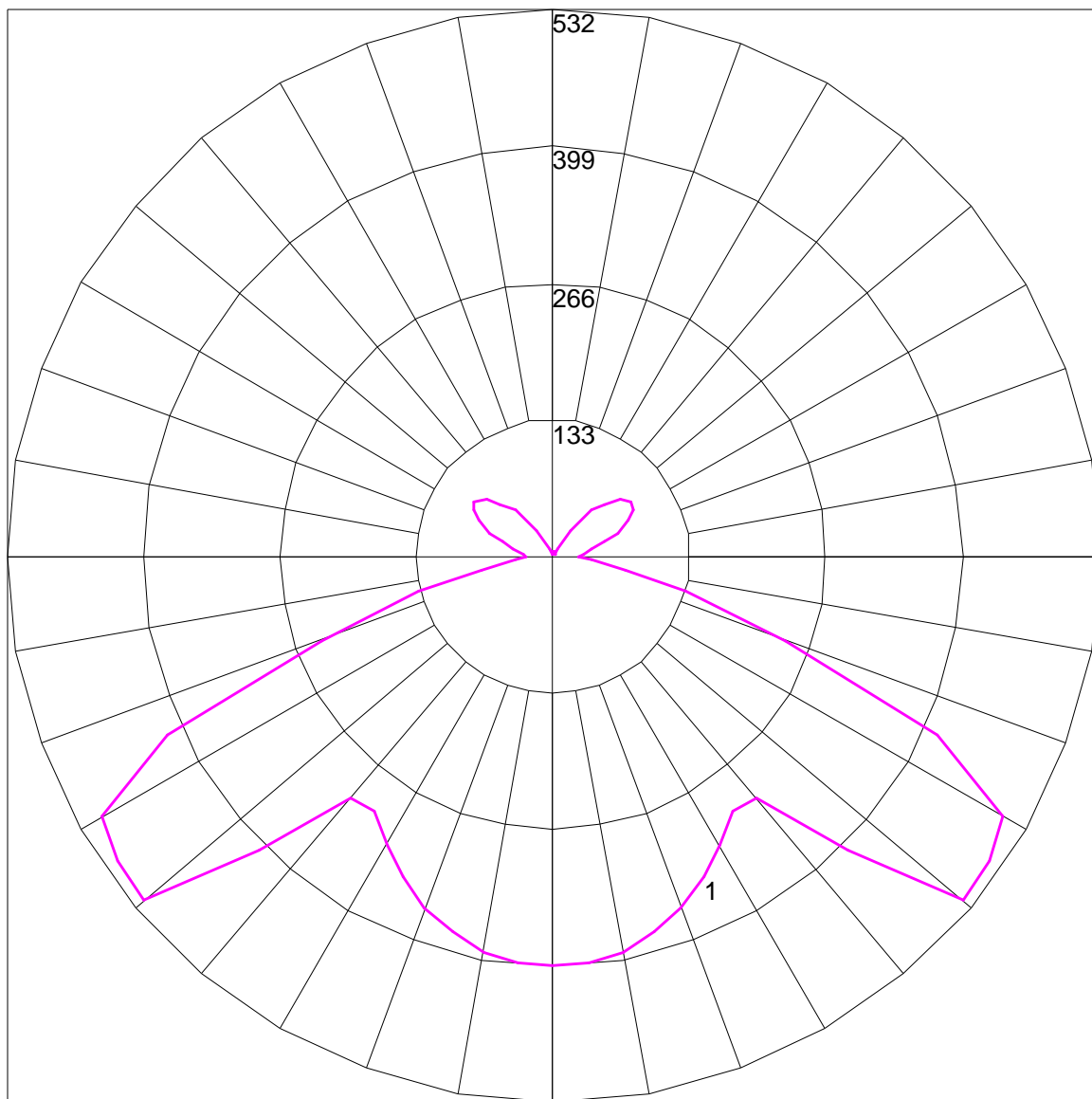
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 532.095 Located At Horizontal Angle = 45, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180)