

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00569_4 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16PPMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00569_4_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-PP-MW

[OTHER] Acrylic Refractor / Prismatic Polycarbonate Lens

[OTHER] 56.1 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	2297
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.94
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00569_4 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16PPMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2067	2028	2135
55	2701	2810	2706
65	2319	2538	2380
75	757	799	731
85	259	224	243

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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	853.343	853.343	853.343	853.343	853.343
5	906.829	915.106	906.281	904.024	910.920
10	995.656	1000.844	1004.556	1004.456	1003.577
15	966.567	963.619	973.984	982.797	978.643
20	848.789	841.561	863.949	877.449	876.696
25	691.092	684.186	706.134	715.323	715.750
30	474.646	471.662	477.447	484.605	489.866
35	321.410	322.599	318.124	319.440	320.831
40	262.859	274.611	253.194	242.397	249.838
45	328.229	340.790	322.077	305.515	339.053
50	413.527	408.154	422.805	405.358	412.903
55	407.319	397.493	423.751	408.990	408.180
60	403.144	392.463	427.798	413.518	422.233
65	320.594	308.121	350.815	335.942	328.999
70	174.256	169.505	189.387	175.612	165.312
75	91.890	89.131	97.004	88.609	88.816
80	49.910	47.073	46.060	41.101	43.562
85	26.188	24.270	22.633	21.441	24.538
90	17.970	18.100	17.926	17.846	15.981
95	20.575	21.269	21.180	21.616	20.472
100	26.870	27.707	27.705	27.699	28.478
105	34.294	34.468	34.383	34.317	35.899
110	41.734	41.596	42.587	44.301	45.093
115	50.070	49.915	52.877	57.454	57.159
120	62.318	62.076	66.192	73.684	73.416
125	75.275	76.276	82.961	91.470	89.651
130	86.140	87.085	99.789	109.381	107.120
135	93.105	97.231	114.477	123.435	122.705
140	83.052	96.199	118.161	125.716	124.759
145	44.706	65.393	100.466	114.184	105.435
150	12.045	22.967	60.681	82.714	77.800
155	4.630	6.133	23.943	42.230	41.683
160	4.043	3.661	7.659	16.025	18.637
165	3.911	4.025	4.031	6.072	7.783
170	4.307	3.927	3.847	4.263	4.124
175	4.248	4.790	3.841	3.786	4.195
180	4.157	4.157	4.157	4.157	4.157

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Zone	Lumens	%Lamp	%Fixt
0-20	357.82	N.A.	15.60
0-30	671.31	N.A.	29.20
0-40	885.28	N.A.	38.50
0-60	1510.67	N.A.	65.80
0-80	1925.46	N.A.	83.80
0-90	1955.39	N.A.	85.10
10-90	1865.96	N.A.	81.20
20-40	527.46	N.A.	23.00
20-50	784.35	N.A.	34.10
40-70	933.78	N.A.	40.60
60-80	414.80	N.A.	18.10
70-80	106.41	N.A.	4.60
80-90	29.92	N.A.	1.30
90-110	60.84	N.A.	2.60
90-120	114.65	N.A.	5.00
90-130	188.97	N.A.	8.20
90-150	326.44	N.A.	14.20
90-180	341.80	N.A.	14.90
110-180	280.96	N.A.	12.20
0-180	2297.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.42
10-20	268.40
20-30	313.49
30-40	213.97
40-50	256.89
50-60	368.50
60-70	308.39
70-80	106.41
80-90	29.92
90-100	23.91
100-110	36.93
110-120	53.81
120-130	74.31
130-140	83.29
140-150	54.18
150-160	13.22
160-170	1.75
170-180	0.39

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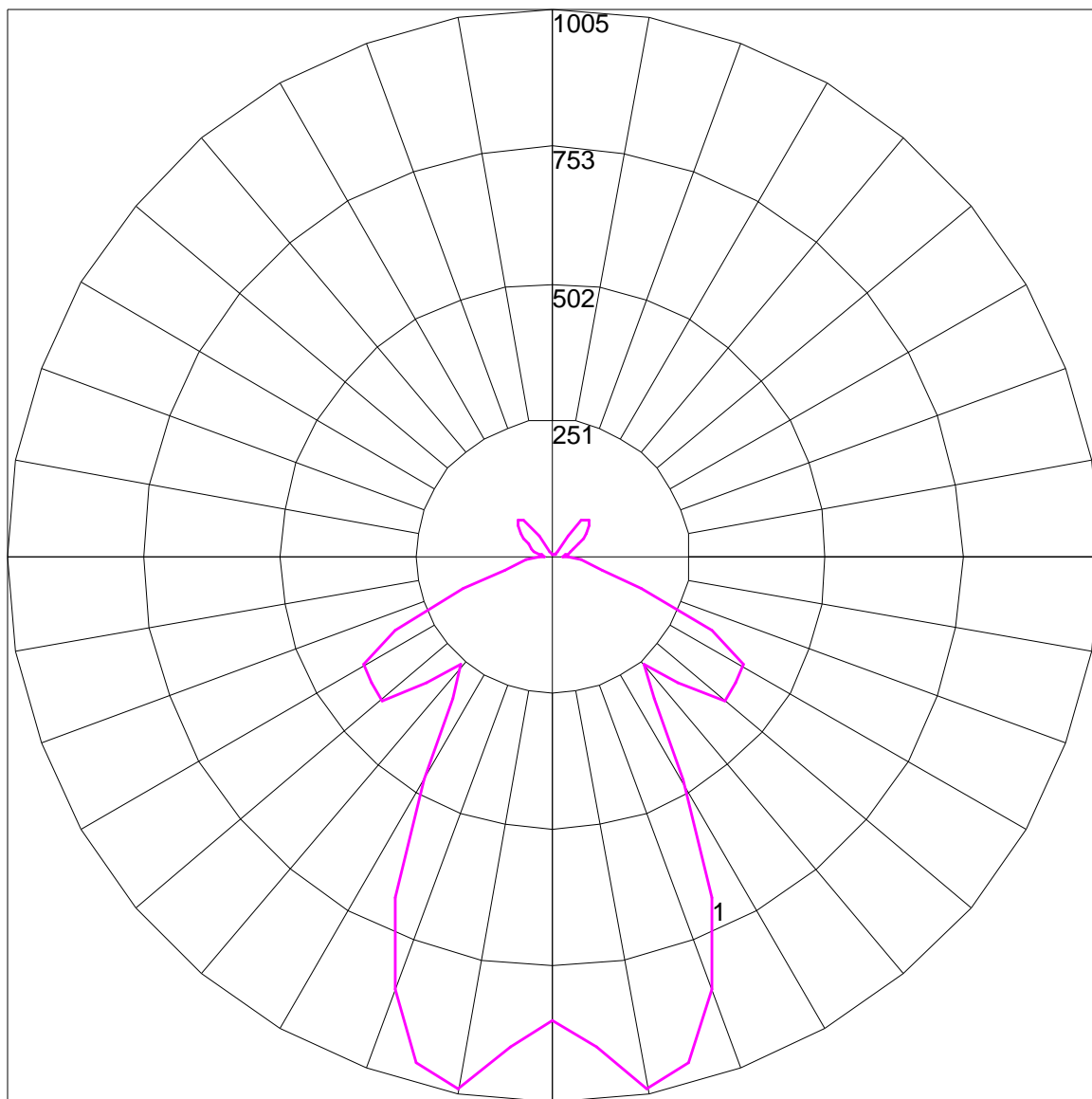
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	106	101	97	93	101	97	94	90	90	88	85	84	82	80	78	76	75	72
2	96	88	82	76	92	85	79	74	79	74	70	74	70	66	69	66	63	60
3	88	77	70	63	84	75	68	62	70	64	59	65	60	56	61	57	53	51
4	80	69	60	54	77	66	59	53	62	56	50	58	53	48	54	50	46	43
5	74	62	53	46	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	33
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	43	36	31	40	34	30	38	33	29	27
9	56	43	35	30	54	42	34	29	39	33	28	37	32	27	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	23

POLAR GRAPH



Maximum Candela = 1004.556 Located At Horizontal Angle = 45, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180)