

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00569_1 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16CNFRMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00569_1_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-CNFR-MW
 [OTHER] Acrylic Refractor / Conical Frosted Lens
 [OTHER] 130.9 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	2367
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.78
Spacing Criterion (90-270)	1.76
Spacing Criterion (Diagonal)	1.88
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.36 ft (Diameter)
Luminous Width (90-270)	1.36 ft (Diameter)
Luminous Height	0.75 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2999	3049	3242
55	2928	2932	2894
65	2711	2539	1956
75	804	724	529
85	188	184	165

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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	426.554	426.554	426.554	426.554	426.554
5	439.176	437.240	442.783	451.184	468.882
10	500.237	497.896	509.576	522.876	556.075
15	598.167	591.781	615.277	622.821	655.617
20	688.459	683.769	696.529	717.530	730.777
25	750.312	739.933	751.384	743.793	747.195
30	733.226	725.916	720.890	702.773	681.370
35	635.225	638.058	619.298	607.596	568.696
40	523.235	530.707	511.416	512.730	492.228
45	487.608	497.414	495.789	505.447	527.177
50	519.625	510.529	527.117	503.411	492.144
55	454.329	471.026	454.941	458.894	449.075
60	437.181	440.743	439.516	435.616	439.040
65	387.822	370.034	363.247	324.146	279.777
70	193.740	209.468	174.837	169.768	129.698
75	101.825	105.383	91.649	82.215	67.021
80	46.853	49.100	40.763	37.078	27.099
85	19.970	22.988	19.581	19.323	17.498
90	16.199	15.973	16.026	15.911	15.624
95	16.778	17.702	17.196	17.730	18.080
100	18.917	19.590	20.635	21.837	23.064
105	24.098	25.976	27.630	29.649	30.801
110	32.302	32.951	34.558	35.975	36.527
115	37.148	37.933	37.267	37.914	36.911
120	36.539	37.735	37.406	38.316	36.360
125	33.942	34.932	35.632	36.036	34.433
130	29.719	31.403	32.832	32.808	33.121
135	23.264	25.622	29.612	30.338	30.824
140	16.781	20.422	24.216	23.908	26.426
145	9.928	13.921	19.177	19.696	22.215
150	4.714	8.750	15.164	18.909	20.438
155	3.127	5.806	12.147	18.009	18.567
160	3.255	3.527	8.334	13.642	14.485
165	3.861	3.711	4.651	7.217	7.347
170	4.280	3.963	4.275	4.697	4.830
175	4.246	4.313	4.748	5.061	5.401
180	4.999	4.999	4.999	4.999	4.999

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Zone	Lumens	%Lamp	%Fixt
0-20	220.23	N.A.	9.30
0-30	556.87	N.A.	23.50
0-40	941.79	N.A.	39.80
0-60	1753.45	N.A.	74.10
0-80	2183.81	N.A.	92.20
0-90	2210.31	N.A.	93.40
10-90	2165.5	N.A.	91.50
20-40	721.56	N.A.	30.50
20-50	1114.63	N.A.	47.10
40-70	1136.19	N.A.	48.00
60-80	430.36	N.A.	18.20
70-80	105.83	N.A.	4.50
80-90	26.50	N.A.	1.10
90-110	48.77	N.A.	2.10
90-120	85.24	N.A.	3.60
90-130	116.67	N.A.	4.90
90-150	149.45	N.A.	6.30
90-180	156.97	N.A.	6.60
110-180	108.20	N.A.	4.60
0-180	2367.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.81
10-20	175.42
20-30	336.64
30-40	384.92
40-50	393.08
50-60	418.59
60-70	324.53
70-80	105.83
80-90	26.50
90-100	19.57
100-110	29.21
110-120	36.47
120-130	31.43
130-140	21.56
140-150	11.21
150-160	5.36
160-170	1.72
170-180	0.44

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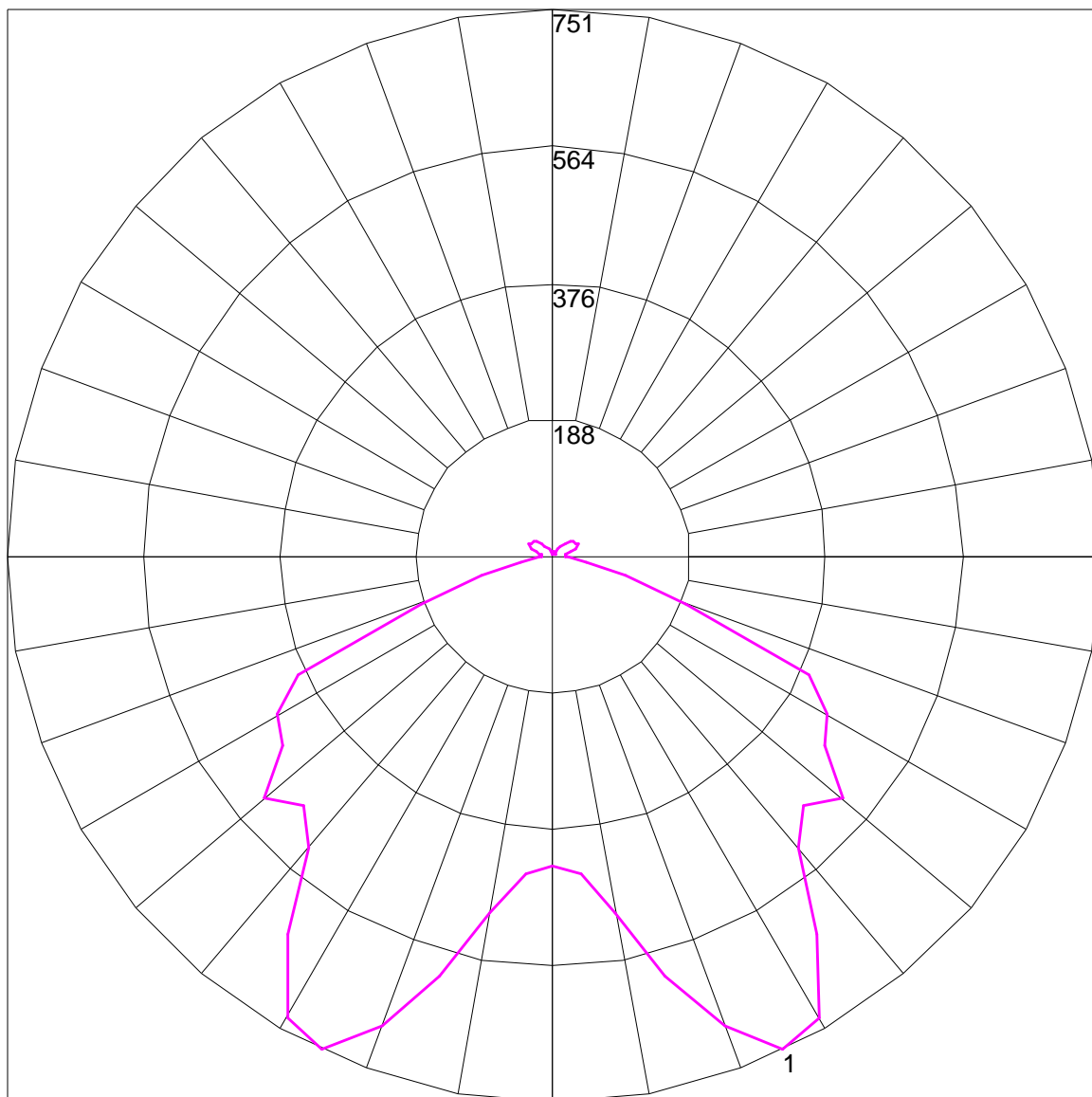
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	79
2	98	89	83	77	94	87	81	76	82	77	73	78	74	70	74	71	68	65
3	89	78	70	63	86	76	68	62	72	66	60	68	63	59	65	61	57	54
4	81	69	60	53	78	67	59	52	64	57	51	60	54	50	58	52	48	46
5	74	61	52	45	71	59	51	45	57	49	44	54	47	42	51	46	41	39
6	68	55	45	39	66	53	45	39	51	43	38	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	29
8	58	45	36	30	56	44	35	30	42	34	29	40	33	29	38	32	28	26
9	54	41	32	27	52	40	32	26	38	31	26	37	30	26	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	27	23	32	27	23	21

POLAR GRAPH



Maximum Candela = 751.384 Located At Horizontal Angle = 45, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)