

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00569_2 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16NLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00569_2_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-NL-MW

[OTHER] Acrylic Refractor / No Lens

[OTHER] 79.9 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	2510
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.32
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	3033	3019	3105
55	2345	2371	2377
65	2050	2067	2223
75	536	535	563
85	102	108	104

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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	889.568	889.568	889.568	889.568	889.568
5	888.095	887.933	890.420	890.092	890.092
10	883.488	885.580	887.557	887.204	886.248
15	877.956	877.293	883.717	884.959	883.338
20	987.143	972.156	997.817	1006.030	973.720
25	1195.727	1231.634	1199.336	1210.096	1200.732
30	1056.967	1046.402	1070.459	1096.234	1096.736
35	809.519	799.683	815.613	812.066	800.302
40	660.708	665.415	658.515	659.823	677.907
45	481.697	466.244	479.543	483.199	493.212
50	370.842	370.106	370.923	367.545	369.282
55	353.633	353.636	357.617	358.240	358.553
60	368.155	373.777	370.631	371.465	369.767
65	283.328	283.653	285.674	293.709	307.316
70	145.454	133.359	146.676	149.968	148.100
75	65.082	64.482	64.988	66.466	68.360
80	25.500	23.142	25.769	26.029	25.579
85	10.322	9.841	10.863	10.364	10.517
90	7.973	7.831	8.673	8.283	8.267
95	7.978	8.236	8.811	8.876	7.682
100	9.914	10.331	10.833	10.832	10.304
105	12.634	11.702	12.758	12.437	13.407
110	10.103	10.500	10.307	10.816	9.983
115	7.726	8.232	8.066	8.860	8.461
120	7.418	7.192	8.025	8.211	8.196
125	7.487	6.897	8.079	7.702	8.032
130	6.943	6.690	8.463	8.310	8.787
135	6.807	6.776	8.197	8.812	9.335
140	6.806	6.682	7.492	7.744	9.148
145	5.053	4.688	5.980	5.911	7.250
150	3.642	4.480	4.538	5.151	5.493
155	3.213	3.802	4.021	5.124	5.364
160	3.651	4.066	4.050	4.803	4.896
165	3.862	4.071	4.156	4.004	4.637
170	4.224	4.230	4.423	4.549	4.518
175	5.016	4.721	4.950	4.308	4.819
180	5.096	5.096	5.096	5.096	5.096

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Zone	Lumens	%Lamp	%Fixt
0-20	343.84	N.A.	13.70
0-30	863.30	N.A.	34.40
0-40	1385.7	N.A.	55.20
0-60	2094.78	N.A.	83.50
0-80	2444.4	N.A.	97.40
0-90	2459.14	N.A.	98.00
10-90	2374.35	N.A.	94.60
20-40	1041.86	N.A.	41.50
20-50	1424.89	N.A.	56.80
40-70	979.56	N.A.	39.00
60-80	349.62	N.A.	13.90
70-80	79.15	N.A.	3.20
80-90	14.74	N.A.	0.60
90-110	21.86	N.A.	0.90
90-120	30.52	N.A.	1.20
90-130	37.44	N.A.	1.50
90-150	47.21	N.A.	1.90
90-180	50.89	N.A.	2.00
110-180	29.04	N.A.	1.20
0-180	2510.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.79
10-20	259.05
20-30	519.46
30-40	522.41
40-50	383.03
50-60	326.05
60-70	270.48
70-80	79.15
80-90	14.74
90-100	9.72
100-110	12.14
110-120	8.66
120-130	6.92
130-140	6.05
140-150	3.72
150-160	2.04
160-170	1.20
170-180	0.44

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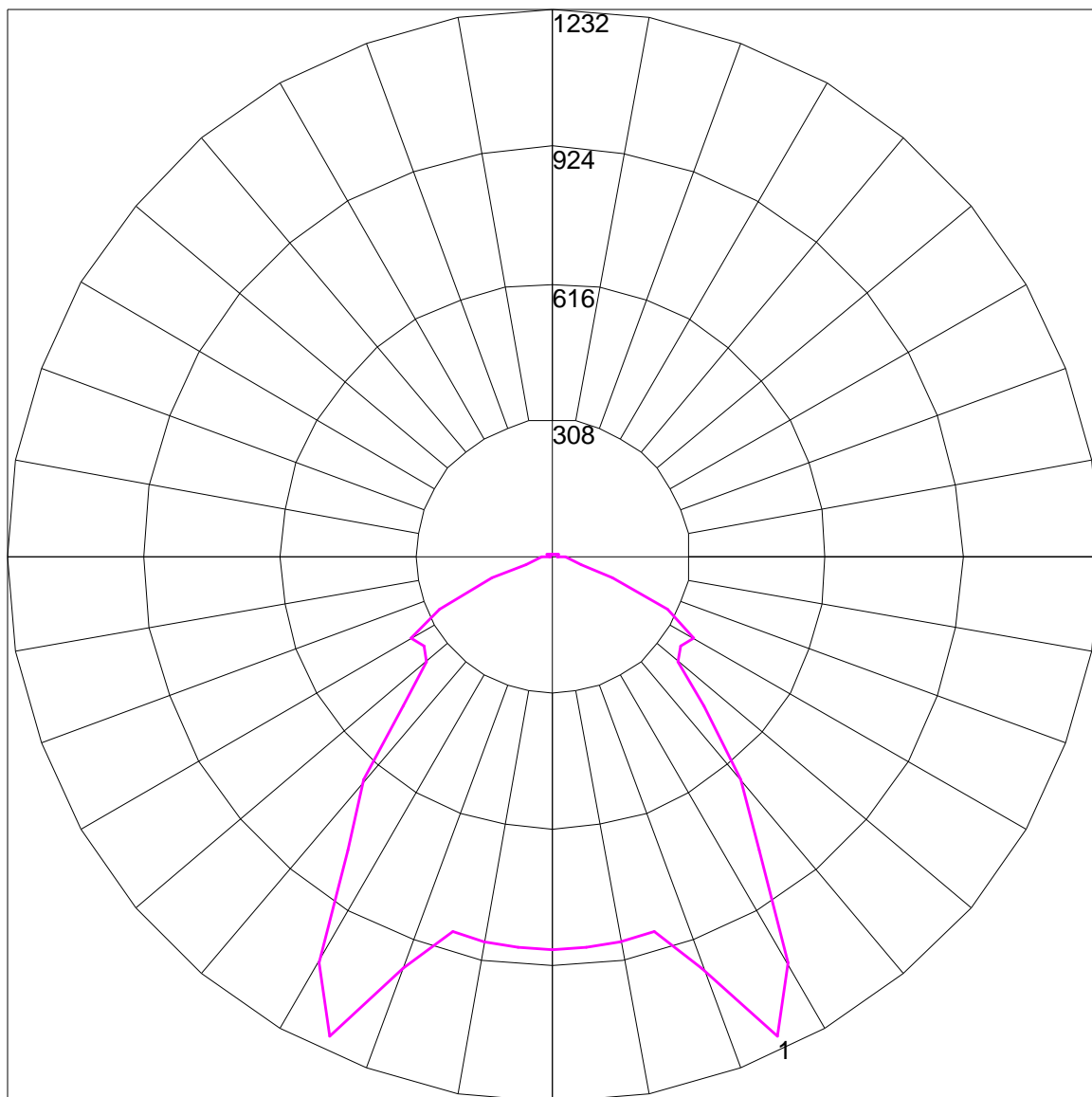
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	110	106	102	99	107	103	100	97	99	96	93	94	92	90	91	89	87	85
2	101	94	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	93	83	76	70	90	81	75	69	78	72	68	75	70	66	73	68	65	63
4	85	74	66	60	83	73	65	60	70	64	59	68	62	58	65	61	57	55
5	79	67	59	52	77	66	58	52	63	57	51	61	55	51	59	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38
8	63	51	43	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	47	39	33	58	46	38	33	45	38	33	43	37	33	42	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	39	34	30	28

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POLAR GRAPH



Maximum Candela = 1231.634 Located At Horizontal Angle = 22.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)