

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00569_1 ~ PRDCH16SLEDGV-37L35K-EXXX-SR16CNFRMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00569_1_M-37L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 7/11/2017
 [UPDATE] 7/21/2017
 [LUMINAIRE] Nominal 16" Diameter x 16.5" H Prismatic Low Bay Luminaire
 [LUMCAT] PRDCH16SLEDGV-37L35K-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	3473
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	26
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	4399	4473	4756
55	4295	4301	4245
65	3977	3725	2869
75	1180	1062	777
85	276	270	242

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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	625.706	625.706	625.706	625.706	625.706
5	644.221	641.382	649.513	661.835	687.796
10	733.791	730.357	747.490	767.000	815.699
15	877.443	868.076	902.541	913.608	961.715
20	1009.892	1003.011	1021.730	1052.535	1071.968
25	1100.622	1085.398	1102.196	1091.060	1096.050
30	1075.560	1064.837	1057.464	1030.889	999.493
35	931.803	935.959	908.440	891.274	834.213
40	767.526	778.488	750.190	752.117	722.043
45	715.266	729.650	727.266	741.433	773.309
50	762.231	748.889	773.221	738.446	721.920
55	666.449	690.941	667.347	673.146	658.742
60	641.295	646.520	644.720	638.999	644.022
65	568.890	542.798	532.842	475.486	410.401
70	284.194	307.266	256.465	249.030	190.252
75	149.365	154.585	134.438	120.601	98.313
80	68.727	72.024	59.794	54.389	39.751
85	29.293	33.720	28.723	28.345	25.667
90	23.762	23.431	23.509	23.339	22.918
95	24.611	25.967	25.224	26.008	26.521
100	27.749	28.736	30.270	32.032	33.832
105	35.349	38.104	40.530	43.492	45.182
110	47.384	48.336	50.693	52.771	53.581
115	54.491	55.643	54.666	55.615	54.145
120	53.598	55.353	54.871	56.205	53.335
125	49.788	51.242	52.268	52.861	50.509
130	43.595	46.065	48.160	48.126	48.584
135	34.126	37.584	43.437	44.502	45.215
140	24.616	29.956	35.522	35.070	38.764
145	14.563	20.420	28.131	28.891	32.586
150	6.914	12.835	22.244	27.738	29.979
155	4.586	8.516	17.818	26.417	27.235
160	4.775	5.174	12.225	20.011	21.248
165	5.664	5.443	6.822	10.587	10.778
170	6.278	5.813	6.272	6.890	7.085
175	6.228	6.326	6.965	7.424	7.923
180	7.334	7.334	7.334	7.334	7.334

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Zone	Lumens	%Lamp	%Fixt
0-20	323.06	N.A.	9.30
0-30	816.87	N.A.	23.50
0-40	1381.5	N.A.	39.80
0-60	2572.12	N.A.	74.10
0-80	3203.41	N.A.	92.20
0-90	3242.28	N.A.	93.40
10-90	3176.55	N.A.	91.50
20-40	1058.44	N.A.	30.50
20-50	1635.04	N.A.	47.10
40-70	1666.67	N.A.	48.00
60-80	631.29	N.A.	18.20
70-80	155.24	N.A.	4.50
80-90	38.87	N.A.	1.10
90-110	71.54	N.A.	2.10
90-120	125.04	N.A.	3.60
90-130	171.15	N.A.	4.90
90-150	219.22	N.A.	6.30
90-180	230.26	N.A.	6.60
110-180	158.71	N.A.	4.60
0-180	3472.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.73
10-20	257.32
20-30	493.81
30-40	564.63
40-50	576.60
50-60	614.02
60-70	476.05
70-80	155.24
80-90	38.87
90-100	28.70
100-110	42.84
110-120	53.50
120-130	46.11
130-140	31.63
140-150	16.44
150-160	7.87
160-170	2.52
170-180	0.65

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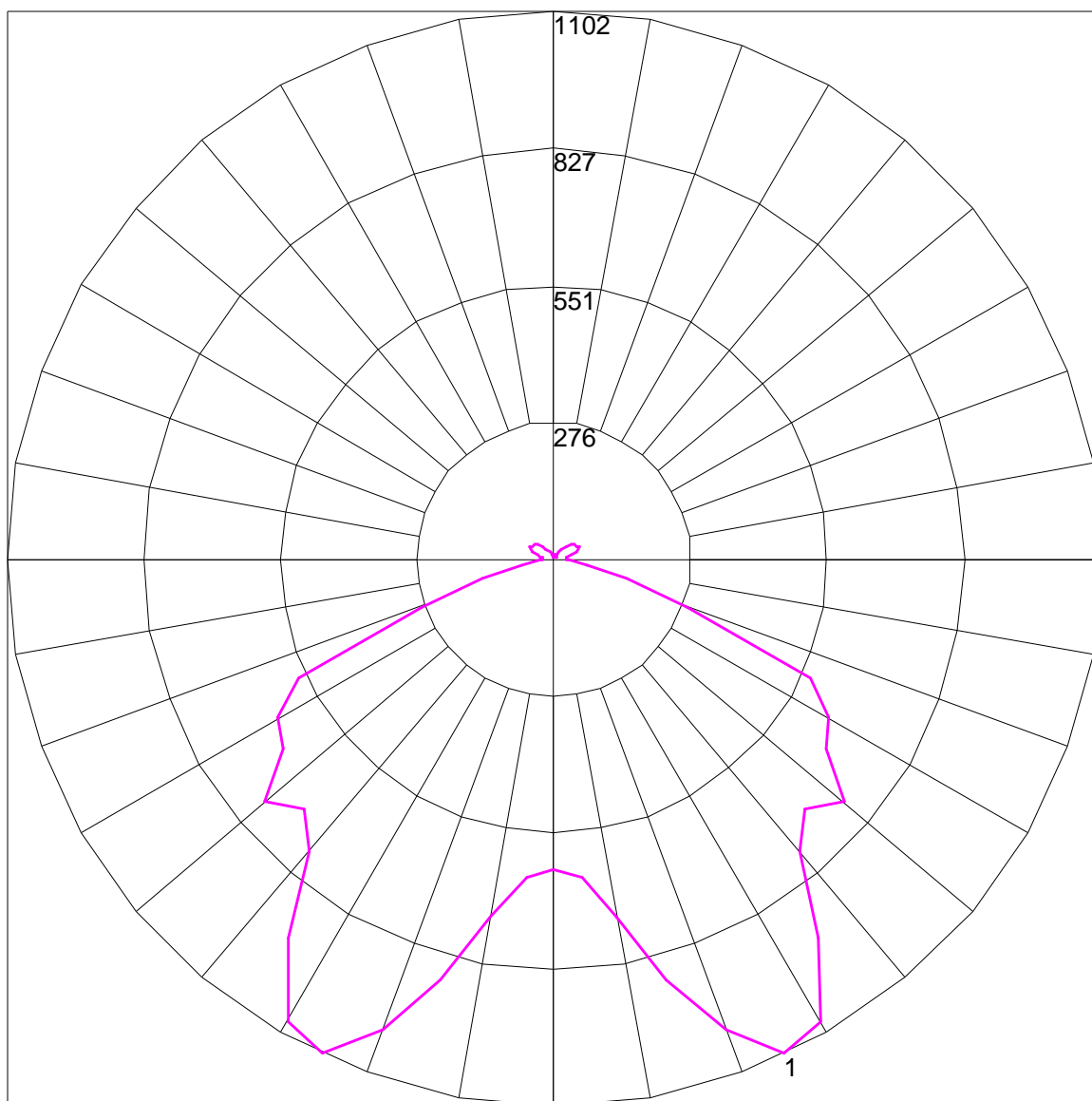
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	75	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	56	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	54	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	25	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 = 1102.196 Located At Horizontal Angle = 45, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)