

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00569_3 ~ PRDCH16SLEDGV-15L35K-EXXX-SR16FOMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00569_3_M-15L
 [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-15L35K-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	1293
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	10
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	1461	1455	1553
55	1971	1959	1994
65	1715	1783	1699
75	636	634	612
85	209	208	195

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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	229.332	229.332	229.332	229.332	229.332
5	228.439	227.486	228.491	227.679	227.995
10	224.274	224.288	224.151	223.759	223.206
15	217.366	217.691	217.618	216.290	216.256
20	209.050	208.809	208.418	206.674	206.574
25	198.046	197.707	197.389	195.999	195.477
30	185.753	185.404	185.528	183.665	183.647
35	173.891	173.697	173.305	172.901	172.589
40	177.100	173.558	168.905	181.735	179.059
45	232.131	237.892	231.085	242.368	246.726
50	298.273	297.256	304.740	295.295	298.106
55	297.266	296.773	295.534	298.898	300.813
60	290.680	296.499	295.735	294.325	299.793
65	237.052	239.652	246.538	230.080	234.821
70	137.393	130.931	133.212	134.766	133.526
75	77.292	77.535	76.992	73.623	74.310
80	41.029	38.985	39.843	37.698	36.215
85	21.080	20.560	20.960	19.300	19.652
90	14.490	13.451	13.998	14.246	13.962
95	16.462	16.670	16.498	17.373	16.996
100	22.402	22.271	22.436	23.454	23.255
105	29.646	29.968	29.779	30.741	30.364
110	37.937	38.176	38.578	38.896	38.561
115	45.996	46.011	46.482	46.880	46.684
120	51.860	52.610	53.005	53.371	53.520
125	53.768	55.928	57.337	58.675	57.937
130	48.954	53.439	57.651	59.312	58.794
135	41.479	46.976	56.800	59.670	59.608
140	33.653	40.724	55.588	61.511	62.783
145	17.044	27.348	46.560	57.892	56.597
150	3.950	9.041	28.431	45.347	45.211
155	1.781	2.498	11.739	21.293	25.527
160	1.594	1.698	4.315	9.195	12.183
165	1.972	1.897	2.071	3.507	5.354
170	1.905	1.854	2.053	2.182	2.624
175	2.158	2.401	2.303	2.204	1.989
180	2.369	2.369	2.369	2.369	2.369

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Zone	Lumens	%Lamp	%Fixt
0-20	82.83	N.A.	6.40
0-30	173.61	N.A.	13.40
0-40	284.55	N.A.	22.00
0-60	736.24	N.A.	56.90
0-80	1045.53	N.A.	80.80
0-90	1070.97	N.A.	82.80
10-90	1049.34	N.A.	81.10
20-40	201.72	N.A.	15.60
20-50	386.66	N.A.	29.90
40-70	675.49	N.A.	52.20
60-80	309.29	N.A.	23.90
70-80	85.49	N.A.	6.60
80-90	25.44	N.A.	2.00
90-110	51.26	N.A.	4.00
90-120	96.91	N.A.	7.50
90-130	146.88	N.A.	11.40
90-150	214.25	N.A.	16.60
90-180	222.26	N.A.	17.20
110-180	171.00	N.A.	13.20
0-180	1293.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.63
10-20	61.19
20-30	90.78
30-40	110.94
40-50	184.94
50-60	266.76
60-70	223.80
70-80	85.49
80-90	25.44
90-100	19.18
100-110	32.08
110-120	45.65
120-130	49.97
130-140	41.58
140-150	25.79
150-160	6.82
160-170	0.97
170-180	0.21

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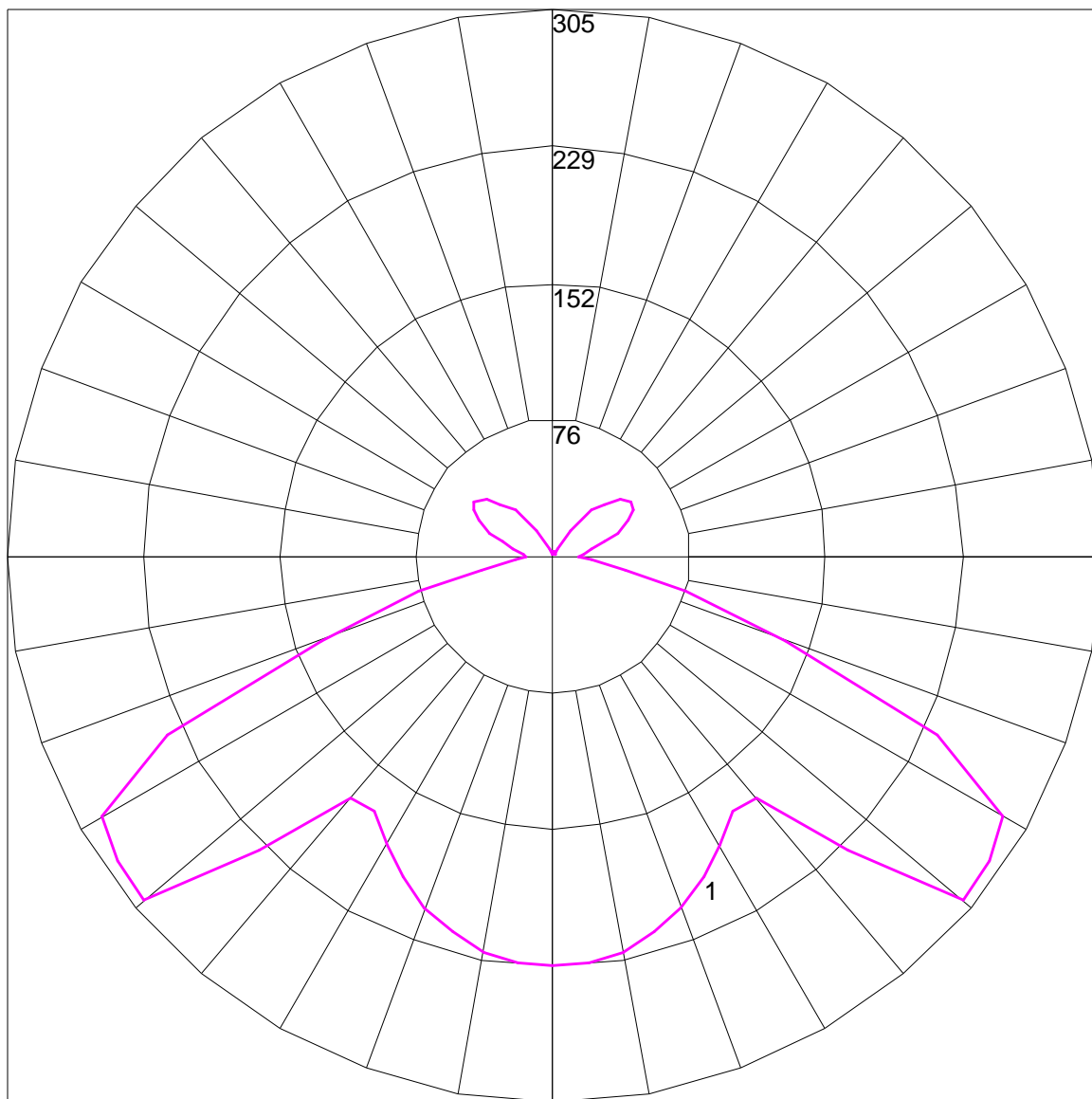
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	27	20	16	25	19	15	13

POLAR GRAPH



Maximum Candela = 304.74 Located At Horizontal Angle = 45, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180)