

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569\_5 ~ PRDCH16SLEDGV-37L35K-EXXX-SR16DLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-0056\_5\_M-37L

[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-37L35K-EX-xx-SR16-DL-MW

[OTHER] Acrylic Refractor / Drop Lens

[OTHER] 133.6 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	3406
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
Spacing Criterion (90-270)	0.78
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.36 ft (Diameter)
Luminous Width (90-270)	1.36 ft (Diameter)
Luminous Height	0.88 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569\_5 ~ PRDCH16SLEDGV-37L35K-EXXX-SR16DLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4301	4229	4382
55	6015	6056	6137
65	3929	3810	3733
75	990	961	953
85	312	298	289

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569\_5 ~ PRDCH16SLEDGV-37L35K-EXXX-SR16DLMW.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1063.953	1063.953	1063.953	1063.953	1063.953
<b>5</b>	1013.873	1004.840	1023.708	1020.162	1012.889
<b>10</b>	857.869	861.144	886.148	889.442	888.013
<b>15</b>	709.569	721.712	739.642	751.532	751.540
<b>20</b>	630.364	645.035	651.473	661.337	660.214
<b>25</b>	600.484	605.832	611.895	610.143	609.696
<b>30</b>	563.170	560.952	565.047	558.473	551.916
<b>35</b>	518.086	517.071	512.496	510.189	493.476
<b>40</b>	547.306	529.132	517.419	534.197	510.137
<b>45</b>	747.433	750.478	734.942	736.181	761.429
<b>50</b>	966.180	959.406	1003.942	962.375	975.221
<b>55</b>	1011.302	993.298	1018.233	1033.703	1031.855
<b>60</b>	943.676	958.298	941.088	940.402	960.891
<b>65</b>	618.268	583.505	599.638	598.969	587.453
<b>70</b>	281.297	243.759	262.696	282.979	264.437
<b>75</b>	140.444	137.071	136.257	138.326	135.223
<b>80</b>	70.114	62.233	64.824	66.092	60.085
<b>85</b>	38.011	35.122	36.395	36.017	35.250
<b>90</b>	32.026	28.977	30.831	30.368	29.859
<b>95</b>	33.232	32.084	32.760	31.794	31.374
<b>100</b>	35.766	35.135	35.482	34.534	33.622
<b>105</b>	38.298	36.351	39.222	38.351	37.227
<b>110</b>	41.854	40.980	41.687	41.205	40.161
<b>115</b>	43.820	42.499	43.611	44.223	43.506
<b>120</b>	46.331	45.732	47.076	47.510	47.394
<b>125</b>	50.421	49.468	50.761	53.827	53.171
<b>130</b>	46.812	47.962	51.371	55.589	54.303
<b>135</b>	36.906	38.940	45.729	49.030	50.877
<b>140</b>	26.235	26.691	36.150	42.475	43.388
<b>145</b>	14.817	17.268	27.007	34.372	36.169
<b>150</b>	6.821	9.631	19.217	27.629	28.793
<b>155</b>	5.342	6.347	13.475	20.654	22.697
<b>160</b>	6.833	5.583	9.095	13.613	16.510
<b>165</b>	7.181	6.363	7.514	10.450	11.603
<b>170</b>	8.066	7.204	6.960	8.172	8.378
<b>175</b>	8.402	8.402	8.309	8.338	7.760
<b>180</b>	9.337	9.337	9.337	9.337	9.337

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Zone	Lumens	%Lamp	%Fixt
0-20	302.55	N.A.	8.90
0-30	582.51	N.A.	17.10
0-40	913.66	N.A.	26.80
0-60	2383.24	N.A.	70.00
0-80	3136.23	N.A.	92.10
0-90	3181.72	N.A.	93.40
10-90	3089.15	N.A.	90.70
20-40	611.10	N.A.	17.90
20-50	1193.68	N.A.	35.00
40-70	2063.21	N.A.	60.60
60-80	752.99	N.A.	22.10
70-80	159.36	N.A.	4.70
80-90	45.50	N.A.	1.30
90-110	75.56	N.A.	2.20
90-120	118.97	N.A.	3.50
90-130	164.04	N.A.	4.80
90-150	214.85	N.A.	6.30
90-180	224.66	N.A.	6.60
110-180	149.09	N.A.	4.40
0-180	3406.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.58
10-20	209.98
20-30	279.95
30-40	331.15
40-50	582.58
50-60	887.01
60-70	593.63
70-80	159.36
80-90	45.50
90-100	35.38
100-110	40.19
110-120	43.40
120-130	45.07
130-140	34.06
140-150	16.76
150-160	6.55
160-170	2.47
170-180	0.78

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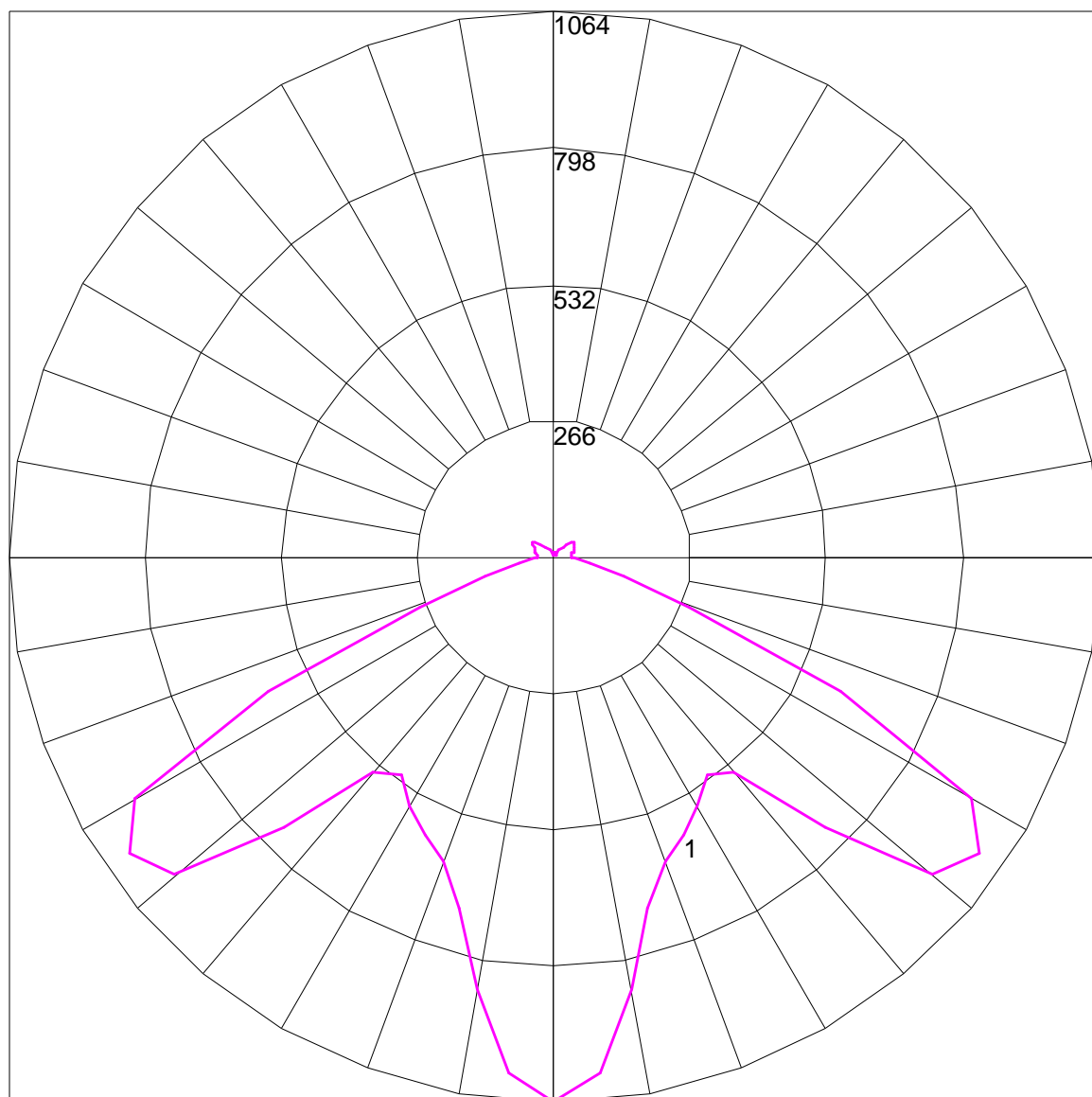
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	97	93	103	99	95	91	93	90	87	88	86	83	84	81	79	77
2	96	87	80	74	93	85	78	72	80	74	69	76	71	67	72	68	64	62
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	62	57	52	50
4	78	65	55	48	75	63	54	47	60	52	46	56	50	45	53	48	43	41
5	71	57	47	40	68	55	46	39	52	44	38	50	43	37	47	41	36	34
6	65	50	41	34	62	49	40	33	46	38	32	44	37	32	42	36	31	28
7	59	45	36	29	57	44	35	29	42	34	28	39	32	27	38	31	27	24
8	55	41	31	25	53	40	31	25	38	30	24	36	29	24	34	28	23	21
9	51	37	28	22	49	36	28	22	34	27	22	33	26	21	31	25	21	19
10	48	34	25	20	46	33	25	20	32	24	19	30	24	19	29	23	18	17

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POLAR GRAPH



Maximum Candela = 1063.953 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)