

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00569\_1 ~ PRDCH16SLEDGV-55L35K-EXXX-SR16CNFRMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00569\_1\_M-55L  
 [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-55L35K-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	5115
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	39
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569\_1 ~ PRDCH16SLEDGV-55L35K-EXXX-SR16CNFRMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6480	6588	7006
55	6326	6334	6253
65	5858	5486	4226
75	1738	1564	1144
85	406	398	356

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	921.619	921.619	921.619	921.619	921.619
<b>5</b>	948.890	944.709	956.685	974.834	1013.073
<b>10</b>	1080.820	1075.761	1100.998	1129.735	1201.464
<b>15</b>	1292.408	1278.612	1329.377	1345.677	1416.536
<b>20</b>	1487.496	1477.362	1504.933	1550.307	1578.929
<b>25</b>	1621.136	1598.711	1623.453	1607.051	1614.401
<b>30</b>	1584.220	1568.427	1557.567	1518.423	1472.180
<b>35</b>	1372.478	1378.599	1338.065	1312.781	1228.734
<b>40</b>	1130.510	1146.655	1104.974	1107.813	1063.516
<b>45</b>	1053.534	1074.721	1071.209	1092.076	1139.028
<b>50</b>	1122.710	1103.058	1138.897	1087.677	1063.335
<b>55</b>	981.631	1017.706	982.953	991.494	970.278
<b>60</b>	944.580	952.276	949.625	941.198	948.597
<b>65</b>	837.934	799.501	784.837	700.356	604.490
<b>70</b>	418.597	452.580	377.755	366.804	280.227
<b>75</b>	220.004	227.692	198.017	177.636	144.808
<b>80</b>	101.230	106.085	88.073	80.112	58.550
<b>85</b>	43.147	49.668	42.307	41.750	37.806
<b>90</b>	34.999	34.511	34.626	34.377	33.757
<b>95</b>	36.251	38.247	37.153	38.308	39.064
<b>100</b>	40.872	42.326	44.585	47.181	49.833
<b>105</b>	52.067	56.124	59.698	64.061	66.549
<b>110</b>	69.793	71.195	74.666	77.727	78.920
<b>115</b>	80.262	81.959	80.519	81.917	79.751
<b>120</b>	78.946	81.531	80.821	82.786	78.559
<b>125</b>	73.335	75.476	76.987	77.860	74.396
<b>130</b>	64.212	67.850	70.937	70.886	71.561
<b>135</b>	50.266	55.358	63.979	65.548	66.598
<b>140</b>	36.257	44.123	52.321	51.655	57.096
<b>145</b>	21.450	30.078	41.435	42.555	47.997
<b>150</b>	10.184	18.904	32.763	40.856	44.158
<b>155</b>	6.755	12.544	26.244	38.911	40.116
<b>160</b>	7.033	7.620	18.007	29.475	31.297
<b>165</b>	8.342	8.017	10.049	15.594	15.875
<b>170</b>	9.247	8.562	9.238	10.149	10.436
<b>175</b>	9.174	9.318	10.259	10.935	11.670
<b>180</b>	10.802	10.802	10.802	10.802	10.802

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Zone	Lumens	%Lamp	%Fixt
0-20	475.84	N.A.	9.30
0-30	1203.18	N.A.	23.50
0-40	2034.85	N.A.	39.80
0-60	3788.54	N.A.	74.10
0-80	4718.38	N.A.	92.20
0-90	4775.64	N.A.	93.40
10-90	4678.82	N.A.	91.50
20-40	1559.01	N.A.	30.50
20-50	2408.3	N.A.	47.10
40-70	2454.88	N.A.	48.00
60-80	929.84	N.A.	18.20
70-80	228.66	N.A.	4.50
80-90	57.26	N.A.	1.10
90-110	105.38	N.A.	2.10
90-120	184.17	N.A.	3.60
90-130	252.09	N.A.	4.90
90-150	322.90	N.A.	6.30
90-180	339.15	N.A.	6.60
110-180	233.77	N.A.	4.60
0-180	5114.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.82
10-20	379.02
20-30	727.35
30-40	831.66
40-50	849.29
50-60	904.41
60-70	701.18
70-80	228.66
80-90	57.26
90-100	42.27
100-110	63.10
110-120	78.80
120-130	67.92
130-140	46.59
140-150	24.21
150-160	11.59
160-170	3.71
170-180	0.96

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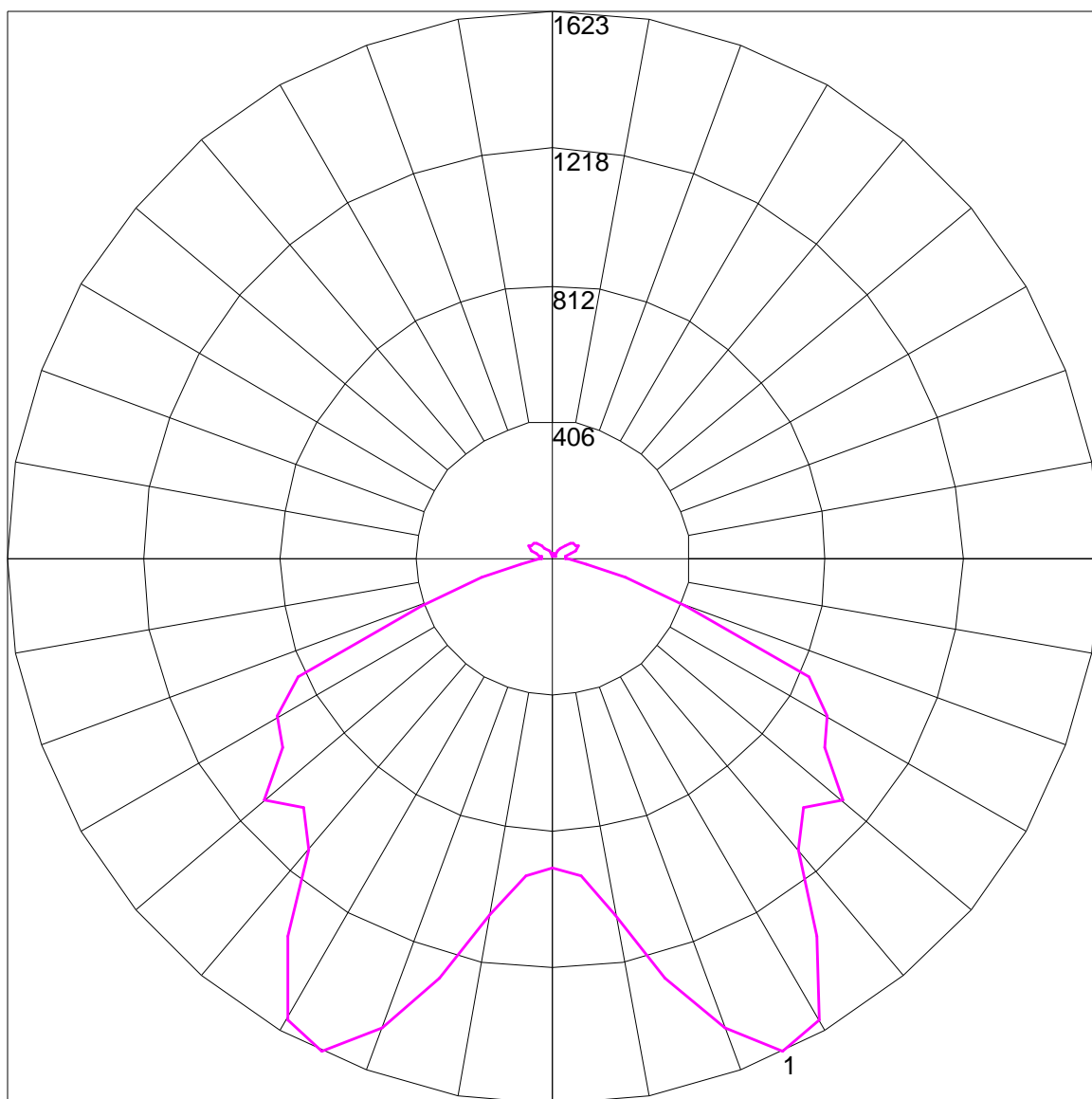
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1623.453 Located At Horizontal Angle = 45, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)