

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569\_5 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16DLMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-0056\_5\_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-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	2322
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	18
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-27L35K-EXXX-SR16DLMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2932	2883	2987
55	4101	4129	4184
65	2678	2597	2545
75	675	655	650
85	212	203	197

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569\_5 ~ PRDCH16SLEDGV-27L35K-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>	725.313	725.313	725.313	725.313	725.313
<b>5</b>	691.173	685.015	697.878	695.460	690.502
<b>10</b>	584.823	587.055	604.101	606.347	605.373
<b>15</b>	483.724	492.003	504.225	512.331	512.336
<b>20</b>	429.729	439.731	444.120	450.844	450.078
<b>25</b>	409.360	413.005	417.139	415.944	415.640
<b>30</b>	383.922	382.410	385.201	380.720	376.250
<b>35</b>	353.187	352.495	349.377	347.804	336.410
<b>40</b>	373.107	360.718	352.733	364.171	347.768
<b>45</b>	509.537	511.613	501.022	501.866	519.078
<b>50</b>	658.660	654.042	684.403	656.067	664.823
<b>55</b>	689.421	677.147	694.146	704.692	703.432
<b>60</b>	643.319	653.287	641.555	641.087	655.054
<b>65</b>	421.483	397.784	408.783	408.327	400.476
<b>70</b>	191.765	166.174	179.084	192.911	180.271
<b>75</b>	95.743	93.443	92.889	94.299	92.184
<b>80</b>	47.797	42.425	44.191	45.056	40.961
<b>85</b>	25.912	23.944	24.811	24.553	24.031
<b>90</b>	21.833	19.754	21.018	20.702	20.356
<b>95</b>	22.655	21.872	22.333	21.675	21.388
<b>100</b>	24.383	23.952	24.189	23.543	22.921
<b>105</b>	26.108	24.781	26.738	26.145	25.378
<b>110</b>	28.533	27.937	28.419	28.090	27.378
<b>115</b>	29.872	28.973	29.730	30.147	29.658
<b>120</b>	31.585	31.176	32.092	32.388	32.309
<b>125</b>	34.372	33.723	34.605	36.695	36.248
<b>130</b>	31.912	32.696	35.021	37.896	37.019
<b>135</b>	25.159	26.546	31.174	33.425	34.683
<b>140</b>	17.885	18.195	24.644	28.956	29.578
<b>145</b>	10.101	11.772	18.411	23.432	24.657
<b>150</b>	4.650	6.566	13.101	18.835	19.628
<b>155</b>	3.641	4.327	9.186	14.080	15.473
<b>160</b>	4.658	3.806	6.200	9.280	11.255
<b>165</b>	4.895	4.338	5.123	7.124	7.910
<b>170</b>	5.499	4.911	4.745	5.571	5.711
<b>175</b>	5.728	5.728	5.664	5.684	5.290
<b>180</b>	6.365	6.365	6.365	6.365	6.365

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Zone	Lumens	%Lamp	%Fixt
0-20	206.26	N.A.	8.90
0-30	397.10	N.A.	17.10
0-40	622.86	N.A.	26.80
0-60	1624.69	N.A.	70.00
0-80	2138.02	N.A.	92.10
0-90	2169.03	N.A.	93.40
10-90	2105.92	N.A.	90.70
20-40	416.60	N.A.	17.90
20-50	813.75	N.A.	35.00
40-70	1406.53	N.A.	60.60
60-80	513.32	N.A.	22.10
70-80	108.64	N.A.	4.70
80-90	31.01	N.A.	1.30
90-110	51.51	N.A.	2.20
90-120	81.10	N.A.	3.50
90-130	111.83	N.A.	4.80
90-150	146.47	N.A.	6.30
90-180	153.15	N.A.	6.60
110-180	101.64	N.A.	4.40
0-180	2322.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	63.11
10-20	143.14
20-30	190.85
30-40	225.75
40-50	397.15
50-60	604.69
60-70	404.69
70-80	108.64
80-90	31.01
90-100	24.12
100-110	27.40
110-120	29.59
120-130	30.73
130-140	23.22
140-150	11.42
150-160	4.47
160-170	1.68
170-180	0.53

# IES INDOOR REPORT

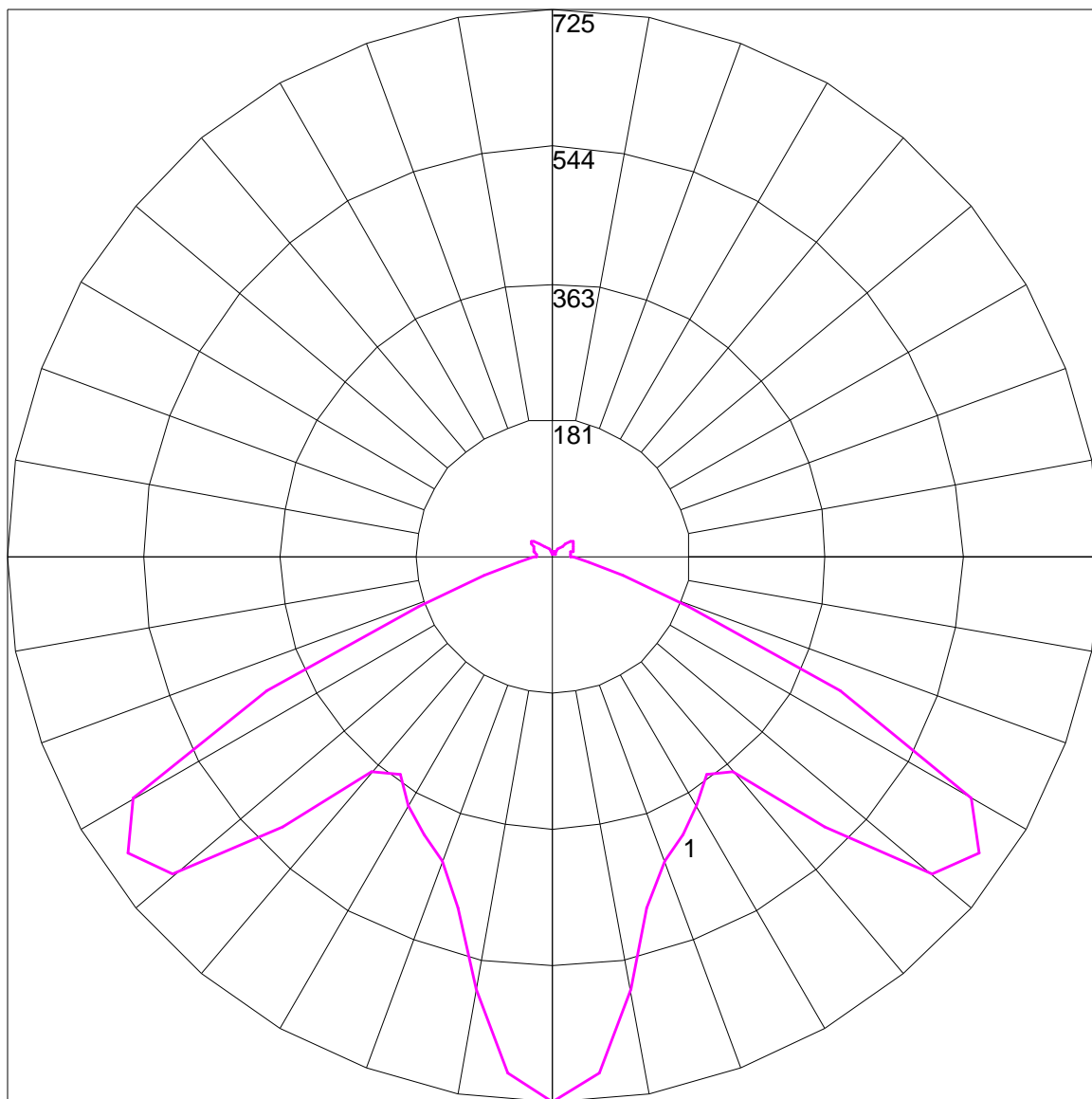
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	92	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

POLAR GRAPH



Maximum Candela = 725.313 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)