

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : PRXXX16LEDGV-27L35KE1-PR16.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]101925754CRT-003\_M-27L  
 [TESTLAB]Intertek  
 [LAB-REF LUMCAT]1412221322-001-001\_M-27L  
 [ISSUEDATE]12/25/2014  
 [UPDATE] 12/02/2015  
 [MANUFAC]SPECTRUM  
 [LUMCAT]PRxxx16LEDGV-27L-35K-E1/PR16  
 [LUMINAIRE]For PRDDH and PREXT Series, 16" Prismatic acrylic refractor, Open Aperture  
 [LAMP]N/A, min. 85 CRI  
 [LAMPCAT]N/A  
 [OTHER]Total Luminaire Watts is approximate  
 [OTHER]Output Multipliers for other CCT's: 50K x 1.07; 40K x 1.03; 30K x 0.98; 27K x 0.97  
 [OTHER]This report updated by Spectrum Lighting, scaled from 55W-35K report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	21.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.46 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1875	1854	1831
55	1388	1394	1404
65	1168	1178	1178
75	917	911	910
85	765	767	767

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1933.261	1933.261	1933.261	1933.261	1933.261
2.5	1913.797	1914.977	1916.111	1919.060	1920.875
5.0	1873.463	1875.187	1876.367	1875.959	1876.004
7.5	1816.887	1819.927	1818.747	1816.569	1813.212
10.0	1752.915	1755.728	1755.365	1753.732	1749.376
12.5	1670.614	1674.198	1675.922	1676.240	1673.336
15.0	1573.976	1575.836	1576.063	1578.740	1578.286
17.5	1467.447	1466.631	1463.682	1466.721	1469.988
20.0	1367.180	1364.412	1362.234	1363.006	1364.639
22.5	1295.540	1295.223	1294.089	1293.363	1294.633
25.0	1213.239	1213.648	1214.555	1214.419	1218.729
27.5	1131.936	1130.847	1129.441	1129.350	1136.156
30.0	1050.678	1053.401	1058.573	1065.197	1068.327
32.5	926.546	927.817	922.463	897.963	902.455
35.0	690.940	685.994	671.113	634.953	636.087
37.5	453.473	445.125	427.839	398.893	394.220
40.0	320.358	319.223	315.412	312.282	306.293
42.5	282.247	283.109	280.387	278.708	273.626
45.0	246.767	246.314	243.909	244.635	240.869
47.5	212.558	211.742	210.018	212.105	210.245
50.0	192.641	192.414	191.779	194.138	192.959
52.5	179.166	179.484	179.348	181.979	180.618
55.0	167.551	168.187	168.232	170.682	169.502
57.5	156.118	157.389	157.797	159.748	158.750
60.0	145.139	146.454	147.044	148.496	147.543
62.5	134.341	135.429	136.110	137.063	136.291
65.0	123.951	124.813	125.085	125.675	125.085
67.5	112.790	113.334	113.380	113.697	113.198
70.0	101.720	102.128	101.810	102.037	101.311
72.5	91.058	91.058	90.831	90.876	90.604
75.0	81.076	80.532	80.532	80.622	80.396
77.5	72.274	71.095	71.049	71.186	71.095
80.0	64.607	63.790	63.926	64.108	63.972
82.5	58.210	57.665	57.847	57.937	57.847
85.0	51.994	51.903	52.085	52.130	52.085
87.5	46.958	47.003	47.276	47.412	47.321
90.0	43.011	43.283	43.646	43.646	43.510
92.5	39.699	40.016	40.379	40.198	40.107
95.0	36.659	37.158	37.294	37.203	37.158
97.5	34.118	34.572	34.799	34.617	34.708
100.0	31.759	32.303	32.303	32.122	32.349
102.5	29.763	30.262	30.080	29.944	30.216
105.0	28.084	28.492	28.175	27.993	28.402
107.5	26.587	26.904	26.587	26.405	26.678
110.0	25.135	25.135	24.908	24.863	24.863
112.5	23.502	23.411	23.411	23.320	23.184
115.0	22.186	22.004	21.959	21.868	21.959
117.5	21.006	20.870	20.870	20.870	20.825
120.0	19.963	19.917	19.963	19.781	19.781
122.5	18.965	19.010	18.965	18.919	18.874
125.0	17.876	17.967	17.921	17.830	17.830
127.5	16.696	16.787	16.832	16.742	16.787
130.0	15.698	15.789	15.698	15.743	15.653
132.5	15.063	15.154	15.154	15.108	15.063

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	14.881	14.972	14.927	14.836	14.836
<b>137.5</b>	14.655	14.700	14.745	14.655	14.700
<b>140.0</b>	14.518	14.564	14.518	14.473	14.428
<b>142.5</b>	14.337	14.382	14.337	14.292	14.337
<b>145.0</b>	14.201	14.201	14.246	14.246	14.201
<b>147.5</b>	14.110	14.155	14.155	14.155	14.155
<b>150.0</b>	14.292	14.292	14.382	14.292	14.337
<b>152.5</b>	14.428	14.518	14.564	14.473	14.518
<b>155.0</b>	14.428	14.428	14.745	14.518	14.473
<b>157.5</b>	14.246	14.564	14.836	14.564	14.246
<b>160.0</b>	14.155	14.564	14.745	14.609	14.110
<b>162.5</b>	13.929	14.382	14.473	14.382	13.974
<b>165.0</b>	13.520	13.883	14.019	13.974	13.520
<b>167.5</b>	13.021	13.157	13.430	13.339	13.021
<b>170.0</b>	12.386	12.477	12.840	12.704	12.386
<b>172.5</b>	11.524	11.569	11.660	11.569	11.343
<b>175.0</b>	10.390	10.526	10.526	10.435	10.208
<b>177.5</b>	9.800	9.981	10.027	9.936	9.573
<b>180.0</b>	9.709	9.709	9.709	9.709	9.709

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	614.12	N.A.	26.30
0-30	1171.27	N.A.	50.20
0-40	1583.55	N.A.	67.90
0-60	1925.34	N.A.	82.50
0-80	2134.83	N.A.	91.50
0-90	2192.32	N.A.	93.90
10-90	2017.23	N.A.	86.40
20-40	969.43	N.A.	41.50
20-50	1159.74	N.A.	49.70
40-70	465.29	N.A.	19.90
60-80	209.50	N.A.	9.00
70-80	85.99	N.A.	3.70
80-90	57.49	N.A.	2.50
90-110	70.89	N.A.	3.00
90-120	92.93	N.A.	4.00
90-130	108.98	N.A.	4.70
90-150	129.55	N.A.	5.60
90-180	141.26	N.A.	6.10
110-180	70.36	N.A.	3.00
0-180	2333.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	175.09
10-20	439.03
20-30	557.15
30-40	412.28
40-50	190.31
50-60	151.48
60-70	123.50
70-80	85.99
80-90	57.49
90-100	40.85
100-110	30.05
110-120	22.03
120-130	16.06
130-140	11.59
140-150	8.97
150-160	6.71
160-170	3.92
170-180	1.07

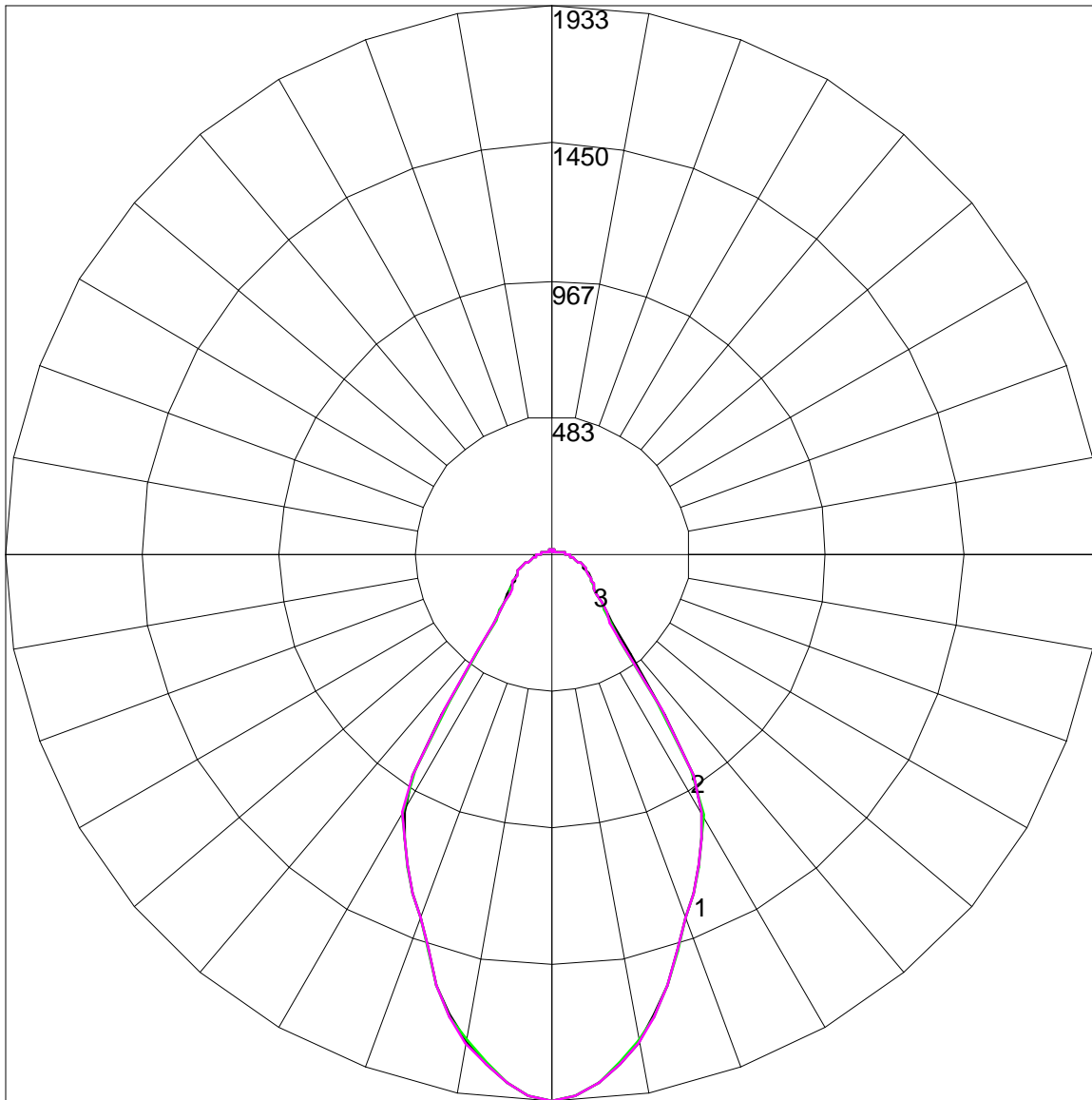
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	109	105	102	98	106	102	99	96	97	95	92	92	90	88	88	86	85	82
2	102	95	90	85	99	93	88	83	88	84	81	84	81	78	81	78	75	73
3	95	86	80	75	92	85	78	74	81	76	72	77	73	70	74	71	68	66
4	89	79	72	67	86	78	71	66	74	69	64	72	67	63	69	65	62	60
5	83	73	66	60	81	71	65	60	69	63	58	66	61	57	64	60	56	54
6	78	67	60	55	76	66	59	54	64	58	53	62	57	53	60	55	52	50
7	74	63	55	50	72	62	55	50	60	54	49	58	53	49	56	51	48	46
8	70	58	51	46	68	57	51	46	56	50	46	54	49	45	53	48	44	43
9	66	55	48	43	64	54	47	43	52	46	42	51	46	42	50	45	41	40
10	62	51	45	40	61	51	44	40	49	44	40	48	43	39	47	42	39	37

POLAR GRAPH



Maximum Candela = 1933.261 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)