

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PRX16LEDGV-27L35KE1-PR16-CFG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Mon Jul 25 2016

[UPDATE] Fri Aug 4 2017

[TEST] SP-00392\_36\_M-27L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] PRX16LEDGV-27L-35K-E1-PR16-CFG

[LUMINAIRE] LED Prismatic Tech Pendant with Center Frosted Glass Disc

[OTHER] 16" Diam. clear acrylic refractor

[OTHER] 22" Diam. Sodalime Glass disc, with 16" Diam. Frosted Center Pattern

[LAMP] N/A, Gen3

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 5000K x 1.06, 4000K X 1.03, 3000K X 0.985, 2700K X 0.971

[OTHER] This report prepared by Spectrum Lighting, scaled from 55L Gen2

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	1.03 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1759	1785	1764
55	1000	998	987
65	579	585	568
75	306	316	311
85	202	205	209

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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>
<b>0</b>	1256.196	1256.196	1256.196	1256.196	1256.196
<b>5</b>	1254.853	1246.998	1225.808	1229.949	1213.530
<b>10</b>	1189.523	1200.016	1186.051	1178.132	1182.492
<b>15</b>	1100.481	1099.360	1096.262	1093.867	1096.616
<b>20</b>	986.563	990.292	992.702	990.268	988.284
<b>25</b>	866.623	875.555	872.398	875.899	870.696
<b>30</b>	727.355	725.827	734.784	736.679	729.236
<b>35</b>	572.904	583.737	582.258	581.754	585.493
<b>40</b>	436.890	433.724	435.838	434.689	432.279
<b>45</b>	319.612	321.207	324.340	322.822	320.524
<b>50</b>	236.820	239.376	236.646	238.469	237.679
<b>55</b>	178.729	179.452	178.458	176.198	176.378
<b>60</b>	135.602	134.865	133.187	134.046	133.474
<b>65</b>	98.648	98.343	99.598	97.732	96.767
<b>70</b>	71.280	70.587	72.032	70.427	70.228
<b>75</b>	47.981	49.169	49.591	50.274	48.829
<b>80</b>	33.065	34.103	33.691	34.219	32.338
<b>85</b>	27.930	27.799	28.367	27.504	29.016
<b>90</b>	9.252	9.795	8.990	9.344	8.922
<b>95</b>	15.526	15.255	15.837	15.236	14.295
<b>100</b>	13.083	12.806	13.024	12.801	12.816
<b>105</b>	10.067	10.081	10.062	9.936	10.037
<b>110</b>	7.516	7.787	8.074	7.792	7.749
<b>115</b>	6.512	6.750	6.469	6.226	6.027
<b>120</b>	4.970	4.994	5.353	5.087	5.271
<b>125</b>	4.514	4.199	4.146	4.388	4.165
<b>130</b>	3.739	3.802	3.966	3.574	3.690
<b>135</b>	3.622	3.511	3.239	3.288	3.423
<b>140</b>	3.516	3.865	3.530	3.719	3.574
<b>145</b>	3.937	4.194	4.505	4.204	4.985
<b>150</b>	5.159	4.631	4.408	4.951	3.680
<b>155</b>	3.899	4.156	3.845	3.389	3.923
<b>160</b>	3.263	3.322	3.806	3.336	3.564
<b>165</b>	2.046	2.410	2.652	2.454	1.906
<b>170</b>	1.872	1.537	1.571	1.304	1.275
<b>175</b>	0.596	0.446	0.596	0.369	0.747
<b>180</b>	0.145	0.145	0.145	0.145	0.145

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	423.94	N.A.	23.20
0-30	822.42	N.A.	45.10
0-40	1185.37	N.A.	65.00
0-60	1601.22	N.A.	87.70
0-80	1754.28	N.A.	96.10
0-90	1781.27	N.A.	97.60
10-90	1664.86	N.A.	91.20
20-40	761.43	N.A.	41.70
20-50	1014.73	N.A.	55.60
40-70	515.24	N.A.	28.20
60-80	153.05	N.A.	8.40
70-80	53.67	N.A.	2.90
80-90	26.99	N.A.	1.50
90-110	25.20	N.A.	1.40
90-120	31.63	N.A.	1.70
90-130	35.55	N.A.	1.90
90-150	40.95	N.A.	2.20
90-180	43.57	N.A.	2.40
110-180	18.37	N.A.	1.00
0-180	1824.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	116.41
10-20	307.53
20-30	398.48
30-40	362.95
40-50	253.30
50-60	162.55
60-70	99.39
70-80	53.67
80-90	26.99
90-100	14.40
100-110	10.80
110-120	6.42
120-130	3.92
130-140	2.75
140-150	2.65
150-160	1.83
160-170	0.71
170-180	0.08

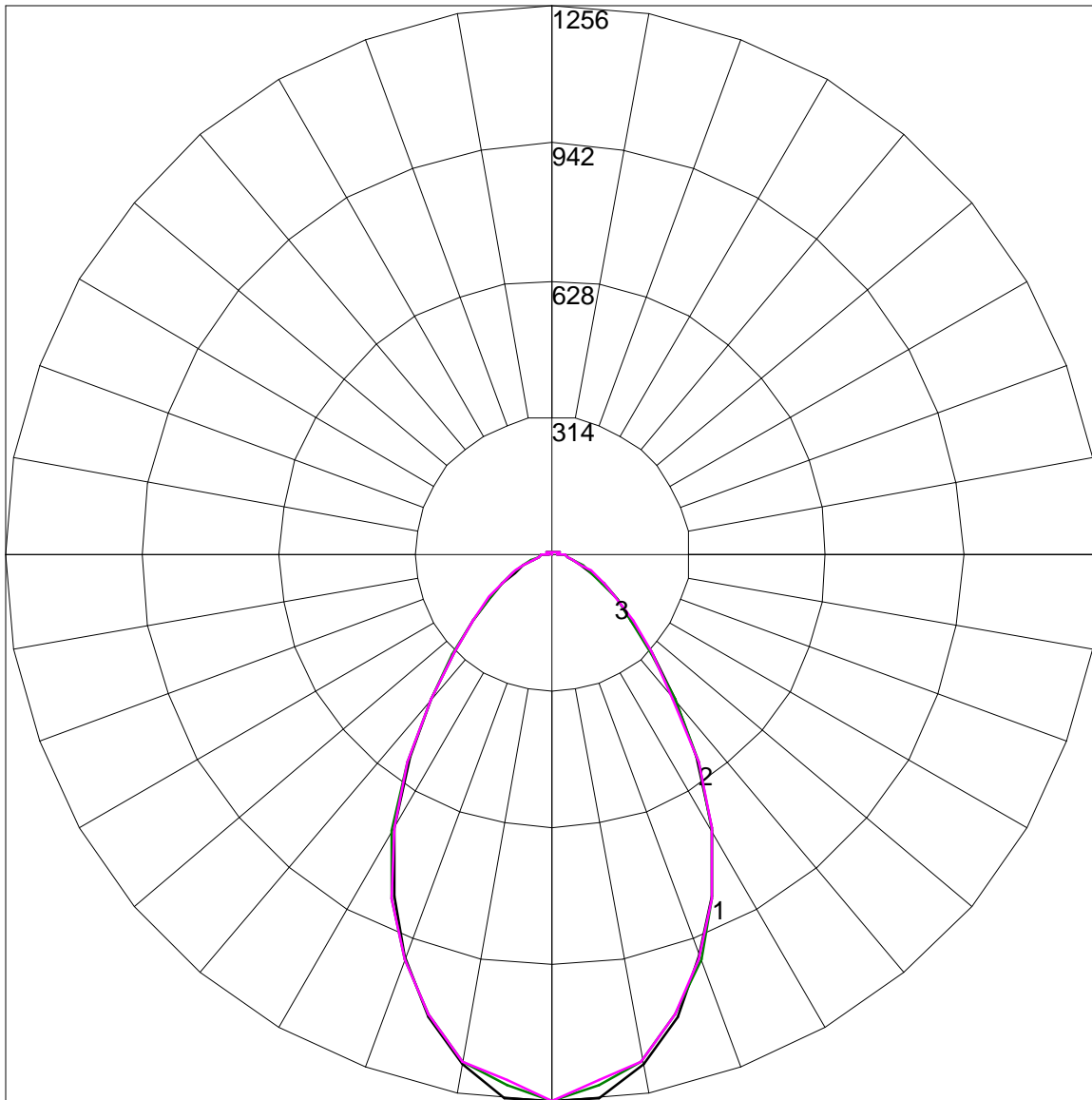
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	110	106	103	100	107	104	101	98	99	97	95	95	93	91	91	90	88	86
2	103	96	90	86	100	94	89	85	90	86	82	87	83	80	83	81	78	76
3	95	87	80	75	93	85	79	74	82	77	72	79	75	71	76	73	69	67
4	89	79	72	66	87	78	71	66	75	69	64	72	67	63	70	66	62	60
5	83	72	65	59	81	71	64	59	69	63	58	67	61	57	65	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52	62	56	52	60	55	51	49
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	35

POLAR GRAPH



Maximum Candela = 1256.196 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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

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