

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PRAF16LEDGV-27L35KEX-PR16-AFXFMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST]1307050917-001\_M-PRAF-Gen3-27L

[TESTLAB]Intertek

[ISSUE DATE] 7/25/2013

[UPDATE] 1/17/2017

[MANUFAC]SPECTRUM LIGHTING

[LUMCAT] PRAF16LEDGV-27L-35K-E1-PR16-AFPF (or AFSF)-MW

[LUMINAIRE] LED Prismatic Arc Pendant w/ Formed Metal Arms and Bottom Tier (ring)

[OTHER] 16" Diam. clear acrylic refractor

[OTHER] 16.2" Outside Diam. Decorative Tier Ring, Matte White Finish

[LAMP] N/A

[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 Intertek Test 101234560CRT-001

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2118
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.92
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	1662	1670	1641
55	1156	1170	1167
65	908	924	918
75	663	664	660
85	509	510	512

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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	1948.910	1948.910	1948.910	1948.910	1948.910
2.5	1930.265	1930.265	1928.962	1927.252	1924.240
5.0	1884.547	1885.158	1882.756	1877.342	1873.963
7.5	1827.187	1827.838	1823.197	1815.096	1810.862
10.0	1750.652	1749.187	1744.749	1737.625	1736.078
12.5	1661.212	1659.910	1657.345	1649.162	1647.615
15.0	1555.366	1554.064	1551.051	1545.229	1546.003
17.5	1442.477	1441.745	1441.500	1437.104	1440.483
20.0	1354.218	1354.829	1355.724	1349.374	1351.409
22.5	1305.325	1306.343	1308.460	1302.435	1302.150
25.0	1242.388	1245.482	1251.140	1240.841	1247.436
27.5	1156.164	1159.299	1166.423	1152.093	1164.143
30.0	1055.122	1060.088	1066.561	1046.166	1059.681
32.5	872.782	876.527	873.718	823.685	871.072
35.0	628.644	631.331	622.659	570.510	621.194
37.5	402.663	405.634	395.701	357.800	394.968
40.0	291.239	295.392	294.496	286.110	286.395
42.5	254.478	257.939	256.392	249.145	250.122
45.0	218.694	220.526	219.712	215.030	215.885
47.5	187.266	187.103	186.493	184.294	186.940
50.0	166.870	166.992	167.440	166.748	168.010
52.5	151.970	152.581	153.395	152.947	153.477
55.0	139.513	140.124	141.223	140.816	140.897
57.5	128.074	128.806	129.824	129.539	129.376
60.0	117.286	118.344	118.955	118.629	118.385
62.5	106.660	107.922	108.248	107.922	107.637
65.0	96.361	97.948	98.070	97.785	97.419
67.5	86.183	87.689	87.567	87.608	86.753
70.0	76.250	77.145	77.145	77.390	76.331
72.5	66.887	67.049	67.497	67.741	66.805
75.0	58.622	58.052	58.704	59.029	58.378
77.5	51.091	50.358	51.132	51.620	51.091
80.0	45.147	44.292	45.107	45.473	45.147
82.5	39.570	38.919	39.611	40.099	39.774
85.0	34.603	34.074	34.644	34.848	34.766
87.5	30.288	30.085	30.288	30.614	30.614
90.0	27.235	27.154	27.398	27.439	27.479
92.5	24.019	24.100	24.141	24.222	24.304
95.0	21.291	21.251	21.373	21.413	21.454
97.5	19.174	19.174	19.297	19.093	19.378
100.0	17.465	17.668	17.505	17.342	17.627
102.5	15.958	16.243	16.040	15.673	16.203
105.0	14.411	15.144	14.941	14.411	14.737
107.5	13.231	13.638	13.434	13.109	13.394
110.0	12.050	12.091	11.928	11.806	12.050
112.5	10.707	10.625	10.585	10.585	10.747
115.0	9.648	9.445	9.485	9.485	9.567
117.5	8.590	8.508	8.468	8.468	8.590
120.0	7.653	7.531	7.653	7.653	7.613
122.5	6.961	6.839	6.799	6.880	6.839
125.0	6.147	6.188	6.147	6.147	6.188
127.5	5.537	5.455	5.455	5.455	5.455
130.0	4.885	4.926	4.844	4.926	4.804
132.5	4.397	4.315	4.437	4.315	4.234

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CANDELA TABULATION - (Cont.)

135.0	4.071	3.949	4.030	3.867	3.867
137.5	3.705	3.705	3.664	3.664	3.582
140.0	3.379	3.501	3.501	3.501	3.338
142.5	3.338	3.298	3.420	3.379	3.216
145.0	3.135	3.338	3.298	3.379	3.175
147.5	3.175	3.216	3.379	3.216	3.094
150.0	3.094	3.338	3.379	3.338	3.013
152.5	2.972	3.257	3.257	3.257	2.850
155.0	2.768	3.135	3.135	3.053	2.728
157.5	2.565	2.850	2.972	2.972	2.687
160.0	2.483	2.728	2.931	2.728	2.483
162.5	2.280	2.443	2.646	2.443	2.361
165.0	1.995	2.076	2.361	2.076	1.995
167.5	1.547	1.669	1.832	1.628	1.547
170.0	0.936	1.140	1.262	1.099	1.058
172.5	0.285	0.326	0.407	0.407	0.366
175.0	0.000	0.000	0.041	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	608.44	N.A.	28.70
0-30	1173.29	N.A.	55.40
0-40	1561.57	N.A.	73.70
0-60	1858.47	N.A.	87.70
0-80	2017.92	N.A.	95.30
0-90	2056.27	N.A.	97.10
10-90	1880.94	N.A.	88.80
20-40	953.13	N.A.	45.00
20-50	1123.61	N.A.	53.00
40-70	393.55	N.A.	18.60
60-80	159.45	N.A.	7.50
70-80	62.80	N.A.	3.00
80-90	38.35	N.A.	1.80
90-110	39.38	N.A.	1.90
90-120	48.94	N.A.	2.30
90-130	54.52	N.A.	2.60
90-150	59.74	N.A.	2.80
90-180	61.78	N.A.	2.90
110-180	22.40	N.A.	1.10
0-180	2118.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	175.33
10-20	433.11
20-30	564.85
30-40	388.28
40-50	170.47
50-60	126.43
60-70	96.65
70-80	62.80
80-90	38.35
90-100	23.78
100-110	15.60
110-120	9.57
120-130	5.57
130-140	3.14
140-150	2.08
150-160	1.40
160-170	0.60
170-180	0.04

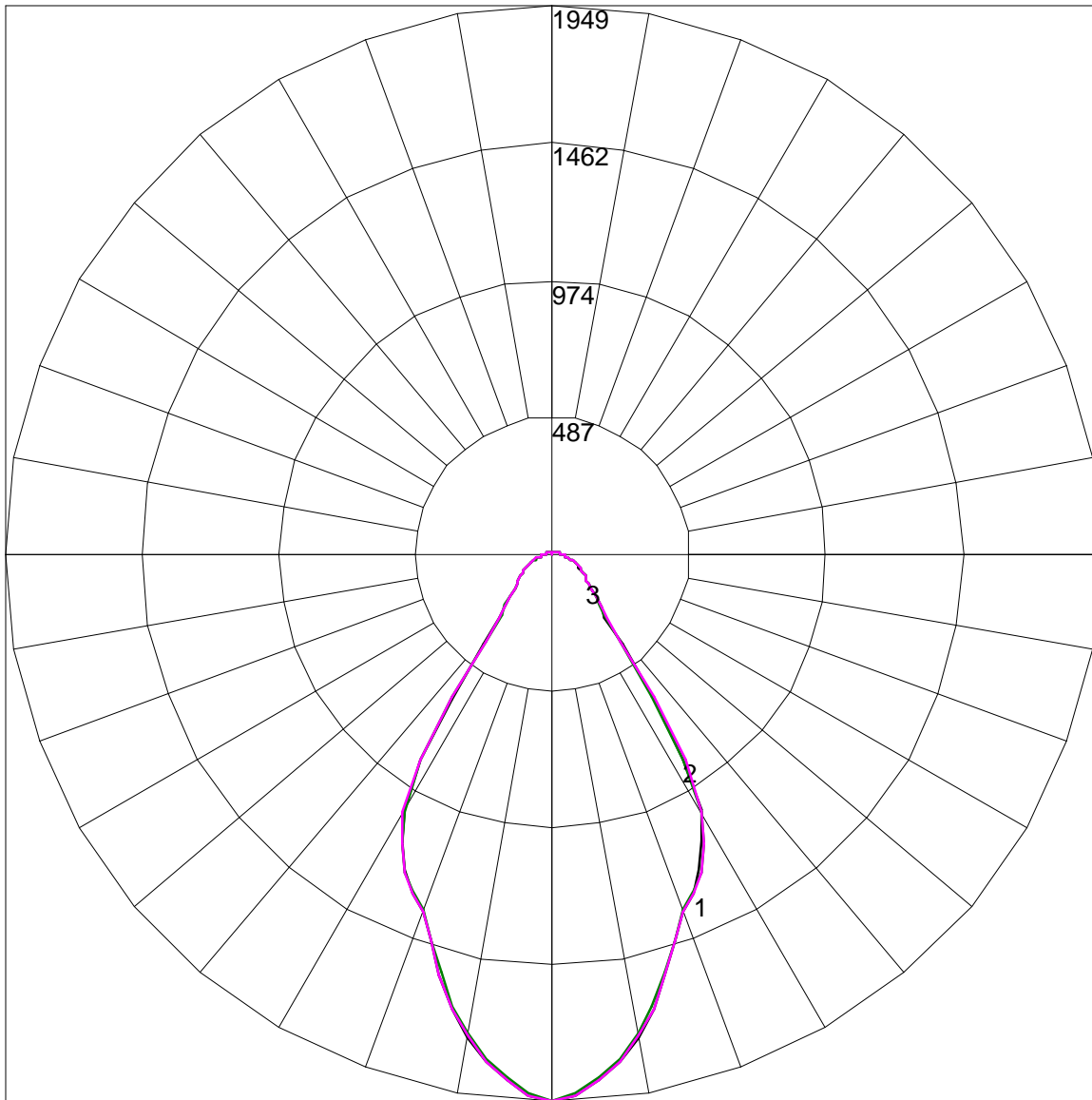
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	109	109	104	104	104	99	99	99	97
1	111	107	104	101	108	104	101	99	100	97	95	95	94	92	91	90	89	86
2	103	97	92	88	101	95	90	86	91	87	84	88	85	82	84	82	80	78
3	97	89	83	78	94	87	81	77	84	79	75	81	77	74	78	75	72	70
4	91	82	75	70	89	80	74	69	78	72	68	75	71	67	73	69	66	64
5	86	75	68	63	83	74	68	63	72	66	62	70	65	61	68	64	60	59
6	81	70	63	58	79	69	62	58	67	61	57	65	60	56	64	59	56	54
7	76	65	58	53	74	64	58	53	63	57	53	61	56	52	60	55	52	50
8	72	61	54	49	70	60	54	49	59	53	49	58	52	48	56	52	48	46
9	68	57	50	46	67	57	50	46	55	50	45	54	49	45	53	48	45	43
10	65	54	47	43	63	53	47	43	52	46	43	51	46	42	50	45	42	41

POLAR GRAPH



Maximum Candela = 1948.91 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)