

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : PRAF16LEDGV-55L35KEX-PR16-AFXFMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]1307050917-001\_M-PRAF-Gen3-55L  
 [TESTLAB]Intertek  
 [ISSUE DATE] 7/25/2013  
 [UPDATE] 1/17/2017  
 [MANUFAC]SPECTRUM LIGHTING  
 [LUMCAT] PRAF16LEDGV-55L-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	4575
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	39
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	3590	3607	3544
55	2497	2527	2522
65	1961	1996	1982
75	1433	1435	1427
85	1100	1102	1105

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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	4209.952	4209.952	4209.952	4209.952	4209.952
2.5	4169.675	4169.675	4166.861	4163.168	4156.660
5.0	4070.919	4072.238	4067.049	4055.353	4048.054
7.5	3947.011	3948.418	3938.393	3920.893	3911.747
10.0	3781.684	3778.518	3768.933	3753.543	3750.201
12.5	3588.480	3585.666	3580.125	3562.449	3559.108
15.0	3359.836	3357.022	3350.514	3337.939	3339.609
17.5	3115.978	3114.395	3113.868	3104.370	3111.669
20.0	2925.324	2926.643	2928.578	2914.859	2919.256
22.5	2819.708	2821.907	2826.480	2813.464	2812.849
25.0	2683.753	2690.436	2702.660	2680.411	2694.658
27.5	2497.496	2504.267	2519.657	2488.702	2514.732
30.0	2279.229	2289.958	2303.940	2259.882	2289.078
32.5	1885.346	1893.436	1887.368	1779.290	1881.652
35.0	1357.970	1363.774	1345.042	1232.391	1341.876
37.5	869.815	876.234	854.777	772.905	853.194
40.0	629.123	638.093	636.158	618.042	618.658
42.5	549.713	557.188	553.846	538.193	540.303
45.0	472.414	476.371	474.612	464.499	466.346
47.5	404.524	404.172	402.853	398.104	403.820
50.0	360.466	360.730	361.697	360.202	362.928
52.5	328.280	329.599	331.358	330.391	331.534
55.0	301.370	302.689	305.064	304.184	304.360
57.5	276.659	278.242	280.441	279.825	279.473
60.0	253.355	255.642	256.961	256.257	255.730
62.5	230.403	233.129	233.832	233.129	232.513
65.0	208.154	211.584	211.847	211.232	210.440
67.5	186.169	189.423	189.159	189.247	187.400
70.0	164.712	166.646	166.646	167.174	164.888
72.5	144.485	144.837	145.805	146.332	144.310
75.0	126.634	125.402	126.809	127.513	126.106
77.5	110.365	108.782	110.453	111.508	110.365
80.0	97.525	95.679	97.438	98.229	97.525
82.5	85.478	84.071	85.566	86.621	85.917
85.0	74.749	73.606	74.837	75.277	75.101
87.5	65.427	64.988	65.427	66.131	66.131
90.0	58.832	58.656	59.184	59.272	59.360
92.5	51.885	52.060	52.148	52.324	52.500
95.0	45.993	45.905	46.169	46.256	46.344
97.5	41.420	41.420	41.684	41.244	41.859
100.0	37.726	38.166	37.814	37.462	38.078
102.5	34.472	35.088	34.648	33.857	35.000
105.0	31.131	32.714	32.274	31.131	31.834
107.5	28.581	29.460	29.020	28.317	28.932
110.0	26.030	26.118	25.766	25.503	26.030
112.5	23.128	22.952	22.864	22.864	23.216
115.0	20.842	20.402	20.490	20.490	20.666
117.5	18.555	18.379	18.292	18.292	18.555
120.0	16.533	16.269	16.533	16.533	16.445
122.5	15.038	14.774	14.686	14.862	14.774
125.0	13.279	13.367	13.279	13.279	13.367
127.5	11.960	11.784	11.784	11.784	11.784
130.0	10.553	10.641	10.465	10.641	10.377
132.5	9.498	9.322	9.585	9.322	9.146

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	8.794	8.530	8.706	8.354	8.354
<b>137.5</b>	8.003	8.003	7.915	7.915	7.739
<b>140.0</b>	7.299	7.563	7.563	7.563	7.211
<b>142.5</b>	7.211	7.123	7.387	7.299	6.947
<b>145.0</b>	6.771	7.211	7.123	7.299	6.859
<b>147.5</b>	6.859	6.947	7.299	6.947	6.683
<b>150.0</b>	6.683	7.211	7.299	7.211	6.508
<b>152.5</b>	6.420	7.035	7.035	7.035	6.156
<b>155.0</b>	5.980	6.771	6.771	6.596	5.892
<b>157.5</b>	5.540	6.156	6.420	6.420	5.804
<b>160.0</b>	5.364	5.892	6.332	5.892	5.364
<b>162.5</b>	4.925	5.276	5.716	5.276	5.101
<b>165.0</b>	4.309	4.485	5.101	4.485	4.309
<b>167.5</b>	3.342	3.606	3.957	3.518	3.342
<b>170.0</b>	2.023	2.462	2.726	2.374	2.286
<b>172.5</b>	0.616	0.704	0.879	0.879	0.791
<b>175.0</b>	0.000	0.000	0.088	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1314.33	N.A.	28.70
0-30	2534.49	N.A.	55.40
0-40	3373.25	N.A.	73.70
0-60	4014.6	N.A.	87.70
0-80	4359.03	N.A.	95.30
0-90	4441.86	N.A.	97.10
10-90	4063.13	N.A.	88.80
20-40	2058.92	N.A.	45.00
20-50	2427.16	N.A.	53.00
40-70	850.13	N.A.	18.60
60-80	344.43	N.A.	7.50
70-80	135.65	N.A.	3.00
80-90	82.83	N.A.	1.80
90-110	85.07	N.A.	1.90
90-120	105.73	N.A.	2.30
90-130	117.76	N.A.	2.60
90-150	129.05	N.A.	2.80
90-180	133.45	N.A.	2.90
110-180	48.39	N.A.	1.10
0-180	4575.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

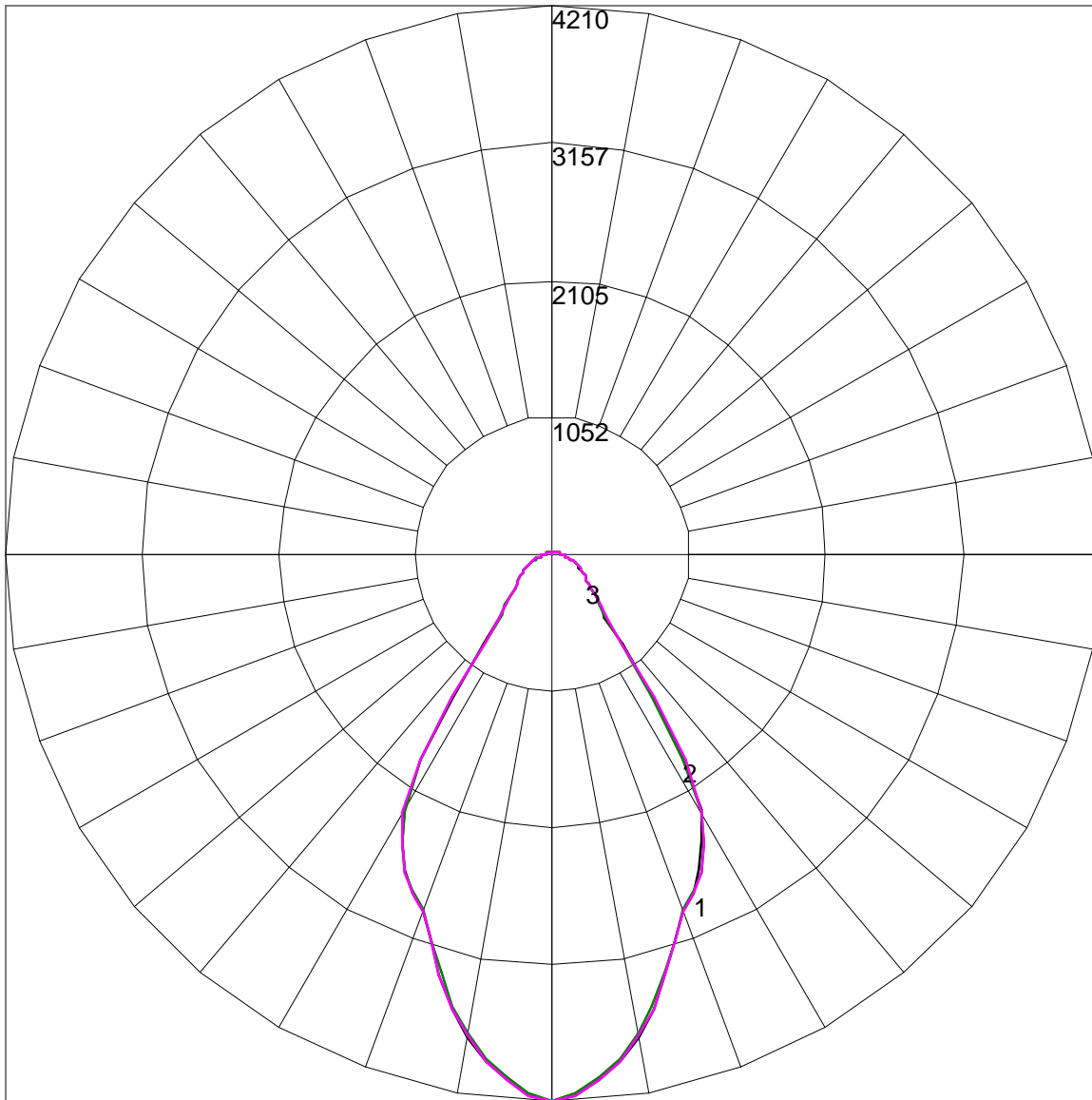
Zone	Lumens
0-10	378.73
10-20	935.59
20-30	1220.16
30-40	838.75
40-50	368.25
50-60	273.11
60-70	208.78
70-80	135.65
80-90	82.83
90-100	51.37
100-110	33.69
110-120	20.66
120-130	12.03
130-140	6.78
140-150	4.50
150-160	3.03
160-170	1.30
170-180	0.08

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	84	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 = 4209.952 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)