

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRAF16LEDGV-15L35KEX-PR16-AFXFMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1307050917-001_M-PRAF-Gen3-15L
 [TESTLAB]Intertek
 [ISSUE DATE] 7/25/2013
 [UPDATE] 1/17/2017
 [MANUFAC]SPECTRUM LIGHTING
 [LUMCAT] PRAF16LEDGV-15L-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	1213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	10
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	952	957	940
55	662	670	669
65	520	529	526
75	380	380	378
85	292	292	293

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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	1116.398	1116.398	1116.398	1116.398	1116.398
2.5	1105.718	1105.718	1104.972	1103.992	1102.266
5.0	1079.529	1079.879	1078.503	1075.402	1073.466
7.5	1046.672	1047.045	1044.386	1039.746	1037.320
10.0	1002.830	1001.990	999.449	995.368	994.481
12.5	951.596	950.850	949.381	944.693	943.807
15.0	890.964	890.218	888.492	885.157	885.600
17.5	826.298	825.878	825.738	823.219	825.155
20.0	775.740	776.090	776.603	772.965	774.131
22.5	747.732	748.315	749.528	746.077	745.914
25.0	711.680	713.452	716.694	710.794	714.571
27.5	662.288	664.084	668.165	659.956	666.859
30.0	604.408	607.253	610.961	599.277	607.020
32.5	499.957	502.103	500.494	471.834	498.978
35.0	360.107	361.647	356.679	326.806	355.840
37.5	230.658	232.360	226.670	204.959	226.251
40.0	166.831	169.210	168.697	163.893	164.056
42.5	145.773	147.756	146.869	142.718	143.278
45.0	125.275	126.324	125.858	123.176	123.666
47.5	107.272	107.179	106.829	105.570	107.085
50.0	95.589	95.659	95.915	95.519	96.242
52.5	87.054	87.403	87.870	87.613	87.916
55.0	79.918	80.267	80.897	80.664	80.711
57.5	73.365	73.784	74.367	74.204	74.111
60.0	67.185	67.791	68.141	67.954	67.815
62.5	61.098	61.821	62.008	61.821	61.658
65.0	55.198	56.108	56.178	56.015	55.805
67.5	49.368	50.231	50.161	50.185	49.695
70.0	43.678	44.191	44.191	44.331	43.725
72.5	38.315	38.408	38.665	38.804	38.268
75.0	33.581	33.254	33.627	33.814	33.441
77.5	29.267	28.847	29.290	29.570	29.267
80.0	25.862	25.372	25.839	26.048	25.862
82.5	22.667	22.294	22.690	22.970	22.784
85.0	19.822	19.519	19.845	19.962	19.915
87.5	17.350	17.233	17.350	17.537	17.537
90.0	15.601	15.554	15.694	15.718	15.741
92.5	13.759	13.805	13.829	13.875	13.922
95.0	12.196	12.173	12.243	12.266	12.290
97.5	10.984	10.984	11.054	10.937	11.100
100.0	10.004	10.121	10.028	9.934	10.098
102.5	9.141	9.305	9.188	8.978	9.281
105.0	8.255	8.675	8.558	8.255	8.442
107.5	7.579	7.812	7.696	7.509	7.672
110.0	6.903	6.926	6.833	6.763	6.903
112.5	6.133	6.087	6.063	6.063	6.156
115.0	5.527	5.410	5.434	5.434	5.480
117.5	4.921	4.874	4.851	4.851	4.921
120.0	4.384	4.314	4.384	4.384	4.361
122.5	3.988	3.918	3.894	3.941	3.918
125.0	3.521	3.545	3.521	3.521	3.545
127.5	3.172	3.125	3.125	3.125	3.125
130.0	2.798	2.822	2.775	2.822	2.752
132.5	2.519	2.472	2.542	2.472	2.425

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CANDELA TABULATION - (Cont.)

135.0	2.332	2.262	2.309	2.215	2.215
137.5	2.122	2.122	2.099	2.099	2.052
140.0	1.936	2.006	2.006	2.006	1.912
142.5	1.912	1.889	1.959	1.936	1.842
145.0	1.796	1.912	1.889	1.936	1.819
147.5	1.819	1.842	1.936	1.842	1.772
150.0	1.772	1.912	1.936	1.912	1.726
152.5	1.702	1.866	1.866	1.866	1.632
155.0	1.586	1.796	1.796	1.749	1.562
157.5	1.469	1.632	1.702	1.702	1.539
160.0	1.423	1.562	1.679	1.562	1.423
162.5	1.306	1.399	1.516	1.399	1.353
165.0	1.143	1.189	1.353	1.189	1.143
167.5	0.886	0.956	1.049	0.933	0.886
170.0	0.536	0.653	0.723	0.630	0.606
172.5	0.163	0.187	0.233	0.233	0.210
175.0	0.000	0.000	0.023	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	348.53	N.A.	28.70
0-30	672.10	N.A.	55.40
0-40	894.52	N.A.	73.70
0-60	1064.59	N.A.	87.70
0-80	1155.93	N.A.	95.30
0-90	1177.9	N.A.	97.10
10-90	1077.46	N.A.	88.80
20-40	545.99	N.A.	45.00
20-50	643.64	N.A.	53.00
40-70	225.44	N.A.	18.60
60-80	91.34	N.A.	7.50
70-80	35.97	N.A.	3.00
80-90	21.97	N.A.	1.80
90-110	22.56	N.A.	1.90
90-120	28.04	N.A.	2.30
90-130	31.23	N.A.	2.60
90-150	34.22	N.A.	2.80
90-180	35.39	N.A.	2.90
110-180	12.83	N.A.	1.10
0-180	1213.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.43
10-20	248.10
20-30	323.56
30-40	222.42
40-50	97.65
50-60	72.42
60-70	55.37
70-80	35.97
80-90	21.97
90-100	13.62
100-110	8.93
110-120	5.48
120-130	3.19
130-140	1.80
140-150	1.19
150-160	0.80
160-170	0.35
170-180	0.02

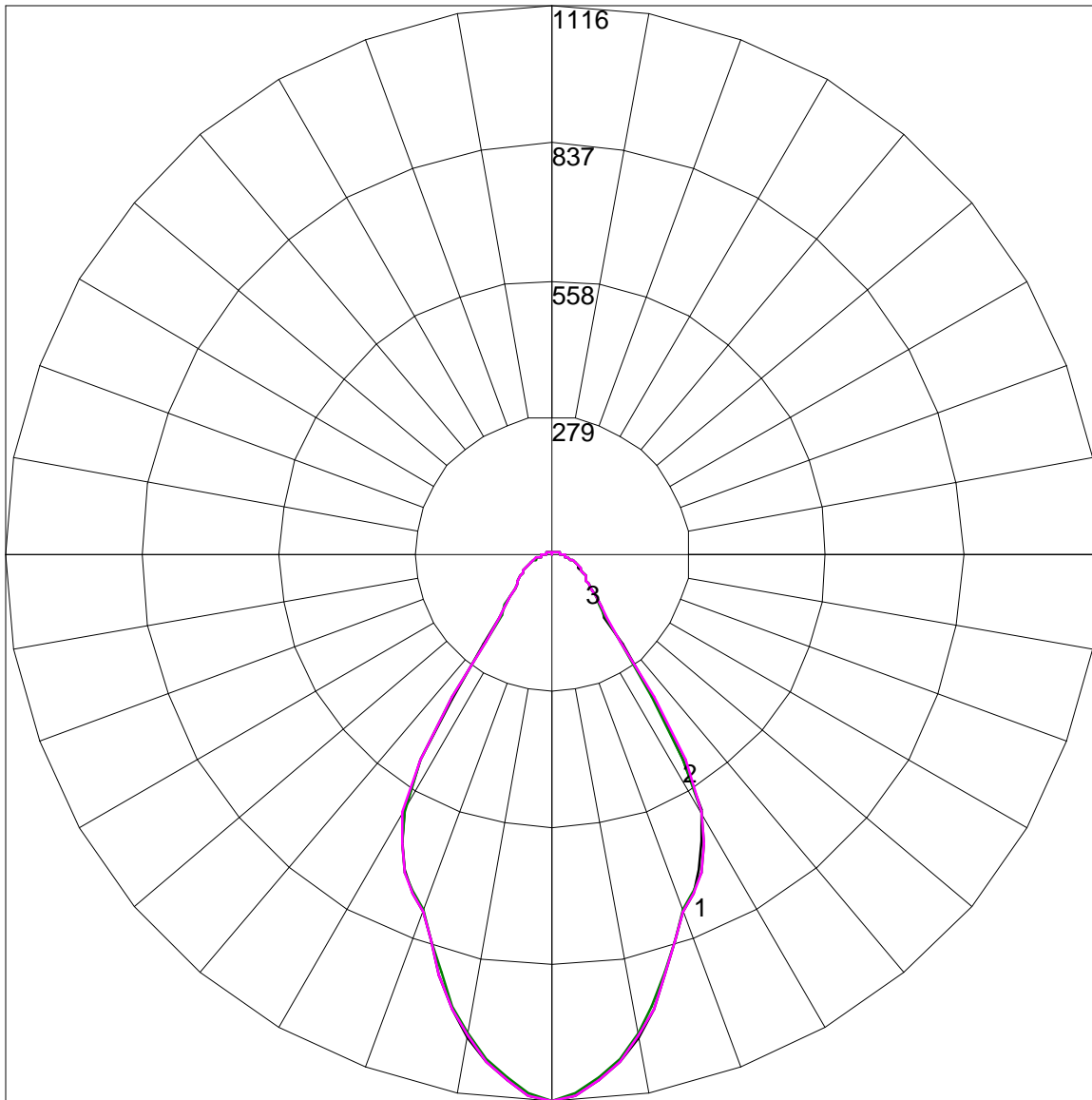
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	99	99	99	97
1	111	107	104	101	108	104	101	99	100	97	95	95	94	92	92	90	89	86
2	103	97	92	88	101	95	90	86	91	87	84	88	85	82	85	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	51	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 = 1116.398 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)