

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRAF16LEDGV-37L35KEX-PR16-AFXFMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1307050917-001_M-PRAF-Gen3-37L
 [TESTLAB]Intertek
 [ISSUE DATE] 7/25/2013
 [UPDATE] 1/17/2017
 [MANUFAC]SPECTRUM LIGHTING
 [LUMCAT] PRAF16LEDGV-37L-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	3107
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	26
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	2438	2449	2406
55	1695	1716	1712
65	1331	1355	1346
75	973	974	969
85	747	748	751

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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	2858.497	2858.497	2858.497	2858.497	2858.497
2.5	2831.150	2831.150	2829.239	2826.731	2822.313
5.0	2764.095	2764.991	2761.468	2753.527	2748.571
7.5	2679.964	2680.919	2674.112	2662.230	2656.020
10.0	2567.709	2565.560	2559.051	2548.602	2546.333
12.5	2436.526	2434.616	2430.854	2418.852	2416.583
15.0	2281.280	2279.370	2274.951	2266.413	2267.547
17.5	2115.704	2114.630	2114.271	2107.823	2112.779
20.0	1986.253	1987.149	1988.462	1979.148	1982.133
22.5	1914.542	1916.034	1919.139	1910.302	1909.884
25.0	1822.230	1826.768	1835.067	1819.961	1829.634
27.5	1695.764	1700.362	1710.811	1689.793	1707.467
30.0	1547.564	1554.848	1564.342	1534.428	1554.251
32.5	1280.123	1285.616	1281.496	1208.112	1277.615
35.0	922.042	925.983	913.264	836.776	911.115
37.5	590.592	594.950	580.381	524.791	579.306
40.0	427.165	433.256	431.942	419.642	420.060
42.5	373.247	378.323	376.054	365.425	366.858
45.0	320.762	323.449	322.255	315.388	316.642
47.5	274.666	274.427	273.532	270.307	274.188
50.0	244.751	244.930	245.587	244.572	246.423
52.5	222.897	223.793	224.987	224.330	225.107
55.0	204.626	205.522	207.134	206.537	206.656
57.5	187.848	188.922	190.415	189.997	189.758
60.0	172.025	173.577	174.473	173.995	173.637
62.5	156.440	158.291	158.769	158.291	157.873
65.0	141.334	143.662	143.841	143.423	142.886
67.5	126.406	128.615	128.436	128.496	127.242
70.0	111.837	113.150	113.150	113.509	111.956
72.5	98.104	98.342	98.999	99.357	97.984
75.0	85.982	85.146	86.102	86.580	85.624
77.5	74.936	73.861	74.996	75.712	74.936
80.0	66.218	64.964	66.159	66.696	66.218
82.5	58.038	57.083	58.098	58.814	58.337
85.0	50.754	49.977	50.813	51.112	50.992
87.5	44.424	44.126	44.424	44.902	44.902
90.0	39.946	39.827	40.185	40.245	40.304
92.5	35.229	35.348	35.408	35.527	35.647
95.0	31.228	31.169	31.348	31.407	31.467
97.5	28.123	28.123	28.303	28.004	28.422
100.0	25.616	25.914	25.675	25.436	25.854
102.5	23.406	23.824	23.526	22.988	23.765
105.0	21.137	22.212	21.914	21.137	21.615
107.5	19.406	20.003	19.704	19.227	19.645
110.0	17.674	17.734	17.495	17.316	17.674
112.5	15.704	15.584	15.525	15.525	15.763
115.0	14.151	13.853	13.912	13.912	14.032
117.5	12.599	12.479	12.420	12.420	12.599
120.0	11.225	11.046	11.225	11.225	11.166
122.5	10.210	10.031	9.972	10.091	10.031
125.0	9.016	9.076	9.016	9.016	9.076
127.5	8.121	8.001	8.001	8.001	8.001
130.0	7.165	7.225	7.105	7.225	7.046
132.5	6.449	6.329	6.508	6.329	6.210

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CANDELA TABULATION - (Cont.)

135.0	5.971	5.792	5.911	5.672	5.672
137.5	5.434	5.434	5.374	5.374	5.254
140.0	4.956	5.135	5.135	5.135	4.896
142.5	4.896	4.837	5.016	4.956	4.717
145.0	4.598	4.896	4.837	4.956	4.657
147.5	4.657	4.717	4.956	4.717	4.538
150.0	4.538	4.896	4.956	4.896	4.419
152.5	4.359	4.777	4.777	4.777	4.180
155.0	4.060	4.598	4.598	4.478	4.001
157.5	3.762	4.180	4.359	4.359	3.941
160.0	3.642	4.001	4.299	4.001	3.642
162.5	3.344	3.583	3.881	3.583	3.463
165.0	2.926	3.045	3.463	3.045	2.926
167.5	2.269	2.448	2.687	2.388	2.269
170.0	1.373	1.672	1.851	1.612	1.552
172.5	0.418	0.478	0.597	0.597	0.537
175.0	0.000	0.000	0.060	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	892.41	N.A.	28.70
0-30	1720.88	N.A.	55.40
0-40	2290.39	N.A.	73.70
0-60	2725.85	N.A.	87.70
0-80	2959.72	N.A.	95.30
0-90	3015.96	N.A.	97.10
10-90	2758.8	N.A.	88.80
20-40	1397.98	N.A.	45.00
20-50	1648.01	N.A.	53.00
40-70	577.23	N.A.	18.60
60-80	233.86	N.A.	7.50
70-80	92.10	N.A.	3.00
80-90	56.24	N.A.	1.80
90-110	57.76	N.A.	1.90
90-120	71.79	N.A.	2.30
90-130	79.96	N.A.	2.60
90-150	87.62	N.A.	2.80
90-180	90.61	N.A.	2.90
110-180	32.85	N.A.	1.10
0-180	3106.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	257.16
10-20	635.25
20-30	828.47
30-40	569.50
40-50	250.03
50-60	185.43
60-70	141.76
70-80	92.10
80-90	56.24
90-100	34.88
100-110	22.88
110-120	14.03
120-130	8.17
130-140	4.61
140-150	3.05
150-160	2.06
160-170	0.88
170-180	0.05

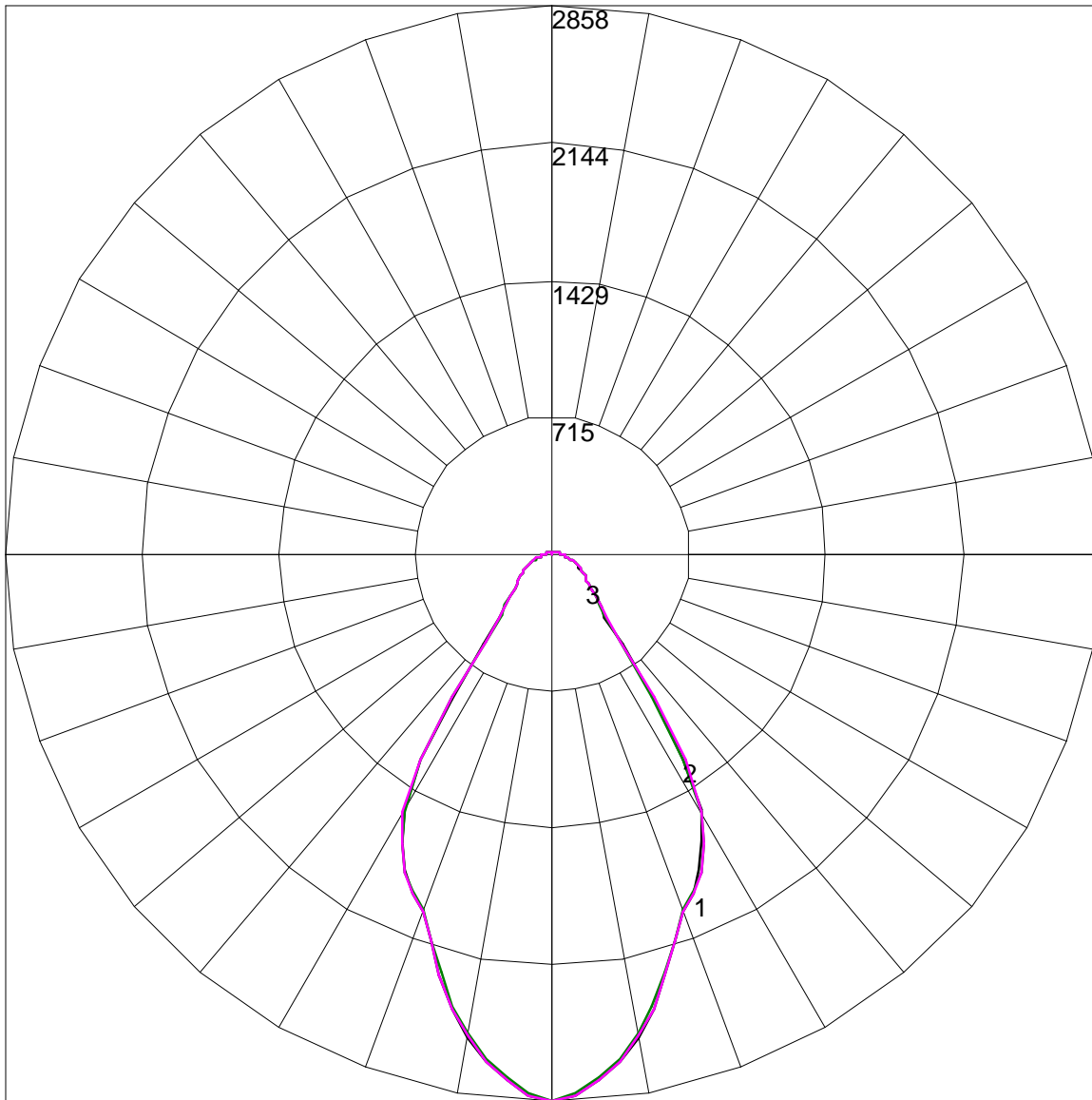
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	57	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 = 2858.497 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)