

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PROCTV22LEDGV-110L40KEX-PR22.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]Intertek

[ISSUE DATE] 6/6/2014

[UPDATE] 12/5/2018

[LAB-REF LUMCAT] 1405080952-001B_M-110L

[MANUFAC]SPECTRUM

[LUMCAT] PROCTV22LEDGV-110L-40K-EX-PR22

[LUMINAIRE] 22" Diam. PROCT Series, Prismatic Acrylic Refractor, Open Aperture

[LAMP] N/A

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 50K x 1.03, 35K x 0.97, 30K x 0.95, 27K x 0.93

[OTHER] This report updated by Spectrum Lighting, scaled from 220W-40K report

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8781
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	77
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.83 ft (Diameter)
Luminous Height	0.58 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3150	2949	3136
55	1333	1399	1287
65	743	824	710
75	666	644	640
85	751	572	738

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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	7132.471	7132.471	7132.471	7132.471	7132.471
2.5	7129.597	7098.519	7098.025	7124.253	7131.887
5.0	7135.480	7055.046	7032.502	7098.474	7130.181
7.5	7189.103	7014.223	6914.613	7070.675	7169.028
10.0	7291.677	6990.017	6781.275	7067.397	7288.444
12.5	7396.497	7011.843	6730.886	7116.708	7384.371
15.0	7437.231	7072.022	6793.491	7165.211	7461.482
17.5	7327.381	6984.493	6831.125	7072.292	7401.482
20.0	6947.442	6759.539	6649.150	6821.784	7036.184
22.5	6308.867	6321.217	6291.442	6389.031	6339.046
25.0	5600.097	5767.791	5858.958	5797.387	5661.489
27.5	5044.695	5165.907	5328.302	5210.997	5117.090
30.0	4403.740	4467.781	4565.191	4506.584	4461.898
32.5	3656.348	3562.531	3525.390	3629.985	3706.826
35.0	2898.087	2690.513	2580.035	2753.971	2959.749
37.5	2083.285	2061.504	2025.306	2062.671	2101.069
40.0	1382.105	1596.640	1724.454	1520.518	1350.309
42.5	1014.786	1134.247	1250.205	1099.397	1033.604
45.0	764.727	717.572	715.776	717.213	761.314
47.5	493.202	475.642	469.265	457.678	456.420
50.0	368.217	388.247	403.651	376.436	355.463
52.5	325.463	341.720	352.813	329.235	315.403
55.0	294.789	302.379	309.295	296.586	284.684
57.5	266.541	271.750	268.652	263.846	257.065
60.0	227.245	230.837	227.649	226.975	220.553
62.5	179.146	187.365	193.382	183.323	170.299
65.0	143.218	153.637	158.892	148.877	136.931
67.5	127.814	135.314	140.523	132.574	121.482
70.0	118.652	123.053	128.577	122.380	113.308
72.5	110.748	110.568	114.161	111.287	106.212
75.0	105.628	99.610	102.125	101.542	101.542
77.5	101.497	92.290	93.458	95.344	97.320
80.0	97.814	88.383	86.362	89.101	95.434
82.5	94.131	83.802	76.482	83.937	93.098
85.0	89.910	77.470	68.488	75.898	88.293
87.5	86.317	73.742	63.772	71.856	85.913
90.0	75.045	71.362	62.874	70.913	74.146
92.5	60.179	70.464	67.365	67.994	58.518
95.0	57.305	66.961	71.407	64.940	57.215
97.5	57.664	62.155	72.934	62.694	57.620
100.0	57.934	62.290	69.341	63.188	58.518
102.5	60.673	63.548	69.476	65.164	60.584
105.0	65.793	68.039	68.937	68.443	65.973
107.5	67.769	70.015	69.072	69.655	66.557
110.0	63.413	67.814	70.419	67.590	61.212
112.5	59.281	62.649	66.961	63.054	58.248
115.0	56.048	58.563	60.449	58.114	56.272
117.5	56.676	56.362	58.652	56.272	55.554
120.0	55.733	57.305	58.787	57.440	56.632
122.5	57.934	59.551	60.000	58.652	58.652
125.0	59.236	61.617	62.694	60.763	59.640

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CANDELA TABULATION - (Cont.)

127.5	61.527	64.042	66.063	62.874	62.066
130.0	65.254	67.994	69.790	67.365	66.018
132.5	69.655	72.485	73.697	71.721	69.431
135.0	73.967	76.347	77.066	75.718	73.338
137.5	79.805	81.197	81.063	80.703	79.446
140.0	86.182	86.721	85.688	86.497	85.464
142.5	91.527	88.877	87.485	89.371	90.314
145.0	95.973	92.110	89.955	93.772	95.524
147.5	101.272	98.892	95.838	99.655	101.631
150.0	109.940	106.751	106.347	109.535	110.209
152.5	118.248	117.799	117.664	120.134	119.236
155.0	124.131	126.287	128.488	129.341	124.535
157.5	127.993	131.946	134.595	133.562	129.386
160.0	133.113	134.416	135.179	133.607	131.901
162.5	135.898	133.562	131.766	130.598	132.754
165.0	134.955	130.823	129.925	128.847	132.529
167.5	135.044	130.823	129.251	128.577	132.754
170.0	136.616	134.101	130.688	129.835	133.293
172.5	141.332	139.041	136.886	134.146	134.505
175.0	153.547	153.862	153.951	151.526	141.916
177.5	171.781	174.880	176.721	175.598	158.936
180.0	182.200	182.200	182.200	182.200	182.200

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2668.09	N.A.	30.40
0-30	5291.66	N.A.	60.30
0-40	7048.64	N.A.	80.30
0-60	7942.43	N.A.	90.50
0-80	8210.84	N.A.	93.50
0-90	8297.03	N.A.	94.50
10-90	7622.92	N.A.	86.80
20-40	4380.55	N.A.	49.90
20-50	5004.9	N.A.	57.00
40-70	1052.76	N.A.	12.00
60-80	268.40	N.A.	3.10
70-80	109.44	N.A.	1.20
80-90	86.19	N.A.	1.00
90-110	141.94	N.A.	1.60
90-120	201.63	N.A.	2.30
90-130	256.84	N.A.	2.90
90-150	374.86	N.A.	4.30
90-180	483.54	N.A.	5.50
110-180	341.60	N.A.	3.90
0-180	8780.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	674.11
10-20	1993.98
20-30	2623.57
30-40	1756.98
40-50	624.35
50-60	269.44
60-70	158.96
70-80	109.44
80-90	86.19
90-100	71.44
100-110	70.50
110-120	59.69
120-130	55.20
130-140	58.89
140-150	59.14
150-160	57.38
160-170	37.40
170-180	13.90

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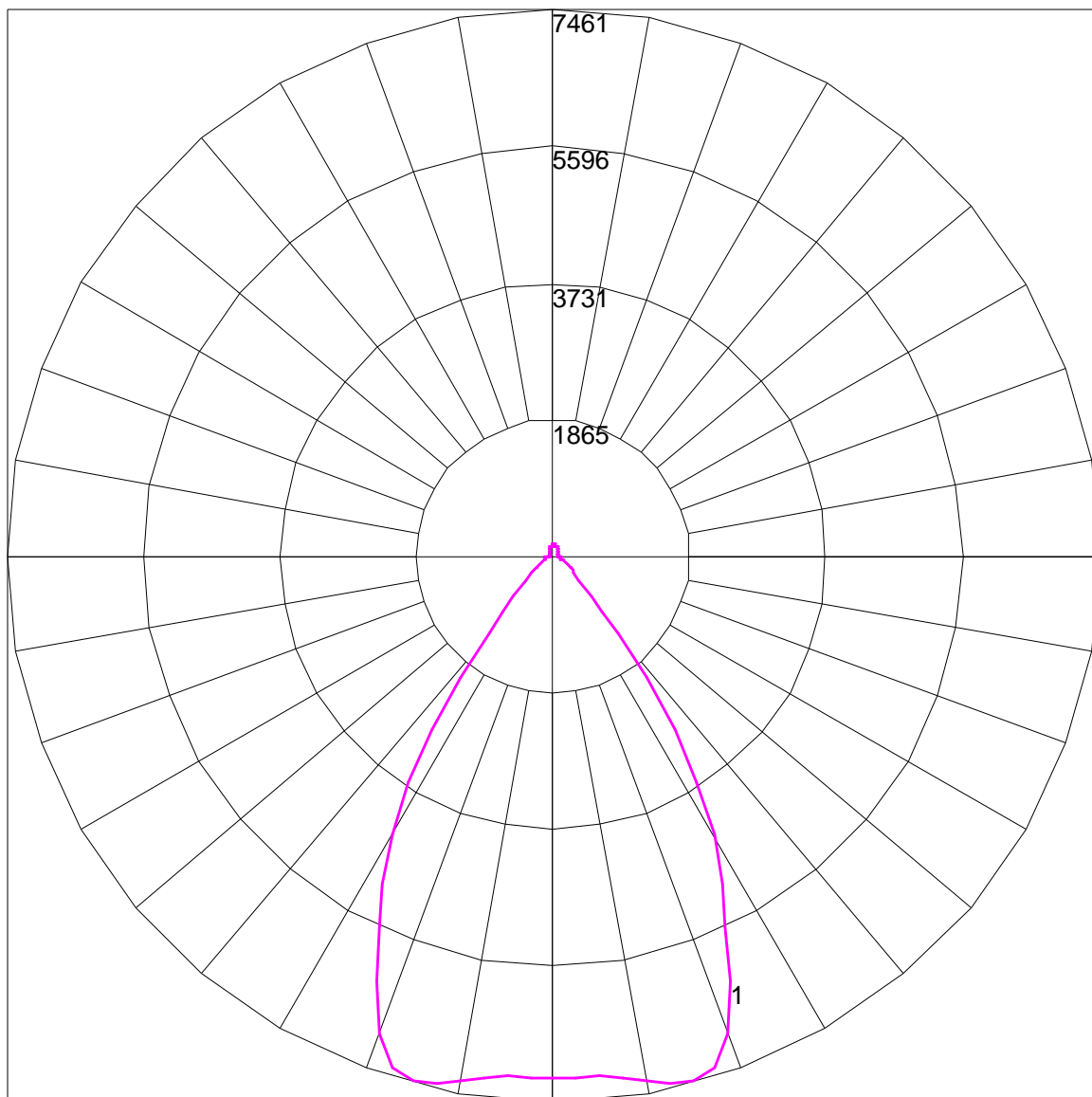
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	111	108	105	102	108	105	102	100	100	98	96	95	94	92	91	90	88	86
2	105	99	94	90	102	97	93	89	93	89	86	89	86	84	85	83	81	79
3	99	91	86	81	96	89	84	80	86	82	78	83	79	76	80	77	74	72
4	93	84	78	73	91	83	77	73	80	75	71	77	73	70	75	71	68	67
5	88	78	72	67	86	77	71	67	75	69	65	72	68	64	70	66	63	62
6	83	73	66	62	81	72	66	61	70	64	60	68	63	59	66	62	59	57
7	78	68	62	57	76	67	61	57	65	60	56	64	59	55	62	58	55	53
8	74	64	57	53	72	63	57	53	61	56	52	60	55	51	58	54	51	49
9	70	60	53	49	69	59	53	49	58	52	48	56	51	48	55	51	48	46
10	67	56	50	46	65	56	50	46	54	49	45	53	48	45	52	48	45	43

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POLAR GRAPH



Maximum Candela = 7461.482 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)