

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PROCTV22LEDGV-240L40KEX-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-240L

[MANUFAC]SPECTRUM

[LUMCAT] PROCTV22LEDGV-240L-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

[CRI] 85+

[CCTMULT] 27K x 0.93, 30K x 0.95, 35K x 0.97, 50K x 1.03

[LAMPMULT] 110L x 0.48, 150L x 0.64, 220L x 0.94

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18748
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	155
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	6727	6296	6697
55	2846	2986	2749
65	1586	1759	1516
75	1422	1375	1367
85	1605	1222	1576

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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	15228.962	15228.962	15228.962	15228.962	15228.962
2.5	15222.825	15156.469	15155.414	15211.414	15227.715
5.0	15235.386	15063.647	15015.511	15156.373	15224.071
7.5	15349.879	14976.483	14763.799	15097.017	15307.016
10.0	15568.892	14924.799	14479.102	15090.017	15561.988
12.5	15792.699	14971.401	14371.513	15195.304	15766.809
15.0	15879.672	15099.894	14505.184	15298.866	15931.453
17.5	15645.124	14913.004	14585.540	15100.469	15803.342
20.0	14833.895	14432.691	14196.994	14565.595	15023.374
22.5	13470.435	13496.805	13433.230	13641.599	13534.873
25.0	11957.099	12315.152	12509.809	12378.344	12088.181
27.5	10771.228	11030.035	11376.773	11126.308	10925.802
30.0	9402.685	9539.425	9747.410	9622.274	9526.863
32.5	7806.884	7606.570	7527.269	7750.597	7914.665
35.0	6187.877	5744.674	5508.784	5880.166	6319.534
37.5	4448.145	4401.639	4324.351	4404.132	4486.118
40.0	2951.015	3409.081	3681.984	3246.548	2883.125
42.5	2166.730	2421.798	2669.386	2347.387	2206.908
45.0	1632.815	1532.130	1528.295	1531.363	1625.527
47.5	1053.064	1015.571	1001.955	977.215	974.530
50.0	786.202	828.969	861.859	803.750	758.969
52.5	694.915	729.627	753.312	702.970	673.435
55.0	629.422	645.627	660.394	633.258	607.847
57.5	569.107	580.230	573.614	563.354	548.874
60.0	485.203	492.875	486.066	484.628	470.916
62.5	382.505	400.053	412.902	391.423	363.615
65.0	305.793	328.040	339.259	317.875	292.369
67.5	272.903	288.917	300.040	283.067	259.382
70.0	253.341	262.739	274.533	261.300	241.930
72.5	236.465	236.081	243.752	237.615	226.780
75.0	225.533	212.684	218.054	216.807	216.807
77.5	216.711	197.054	199.547	203.574	207.794
80.0	208.848	188.712	184.396	190.246	203.766
82.5	200.985	178.931	163.301	179.218	198.780
85.0	191.972	165.410	146.232	162.054	188.520
87.5	184.301	157.451	136.164	153.424	183.438
90.0	160.232	152.369	134.246	151.410	158.314
92.5	128.493	150.451	143.835	145.177	124.945
95.0	122.356	142.972	152.465	138.657	122.164
97.5	123.123	132.712	155.725	133.862	123.027
100.0	123.698	132.999	148.054	134.917	124.945
102.5	129.547	135.684	148.342	139.136	129.356
105.0	140.479	145.273	147.191	146.136	140.862
107.5	144.698	149.493	147.479	148.725	142.109
110.0	135.397	144.794	150.356	144.314	130.698
112.5	126.575	133.767	142.972	134.630	124.369
115.0	119.671	125.041	129.068	124.082	120.150
117.5	121.013	120.342	125.232	120.150	118.616
120.0	118.999	122.356	125.520	122.643	120.917
122.5	123.698	127.150	128.109	125.232	125.232
125.0	126.479	131.561	133.862	129.739	127.342

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CANDELA TABULATION - (Cont.)

127.5	131.369	136.739	141.054	134.246	132.520
130.0	139.328	145.177	149.013	143.835	140.958
132.5	148.725	154.766	157.355	153.136	148.246
135.0	157.931	163.013	164.547	161.671	156.588
137.5	170.397	173.369	173.081	172.314	169.629
140.0	184.013	185.164	182.958	184.684	182.479
142.5	195.424	189.766	186.794	190.821	192.835
145.0	204.917	196.670	192.068	200.218	203.958
147.5	216.232	211.150	204.629	212.780	216.999
150.0	234.739	227.931	227.068	233.876	235.314
152.5	252.478	251.519	251.232	256.506	254.588
155.0	265.040	269.643	274.341	276.163	265.903
157.5	273.286	281.725	287.382	285.177	276.259
160.0	284.218	286.999	288.629	285.273	281.629
162.5	290.163	285.177	281.341	278.848	283.451
165.0	288.149	279.328	277.410	275.108	282.971
167.5	288.341	279.328	275.971	274.533	283.451
170.0	291.697	286.328	279.040	277.218	284.602
172.5	301.766	296.875	292.273	286.423	287.191
175.0	327.848	328.519	328.711	323.533	303.012
177.5	366.779	373.396	377.327	374.930	339.355
180.0	389.026	389.026	389.026	389.026	389.026

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5696.79	N.A.	30.40
0-30	11298.54	N.A.	60.30
0-40	15049.96	N.A.	80.30
0-60	16958.36	N.A.	90.50
0-80	17531.44	N.A.	93.50
0-90	17715.48	N.A.	94.50
10-90	16276.15	N.A.	86.80
20-40	9353.17	N.A.	49.90
20-50	10686.27	N.A.	57.00
40-70	2247.81	N.A.	12.00
60-80	573.08	N.A.	3.10
70-80	233.67	N.A.	1.20
80-90	184.04	N.A.	1.00
90-110	303.07	N.A.	1.60
90-120	430.52	N.A.	2.30
90-130	548.39	N.A.	2.90
90-150	800.39	N.A.	4.30
90-180	1032.43	N.A.	5.50
110-180	729.36	N.A.	3.90
0-180	18747.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1439.33
10-20	4257.46
20-30	5601.75
30-40	3751.42
40-50	1333.09
50-60	575.30
60-70	339.41
70-80	233.67
80-90	184.04
90-100	152.54
100-110	150.53
110-120	127.44
120-130	117.87
130-140	125.73
140-150	126.27
150-160	122.52
160-170	79.85
170-180	29.68

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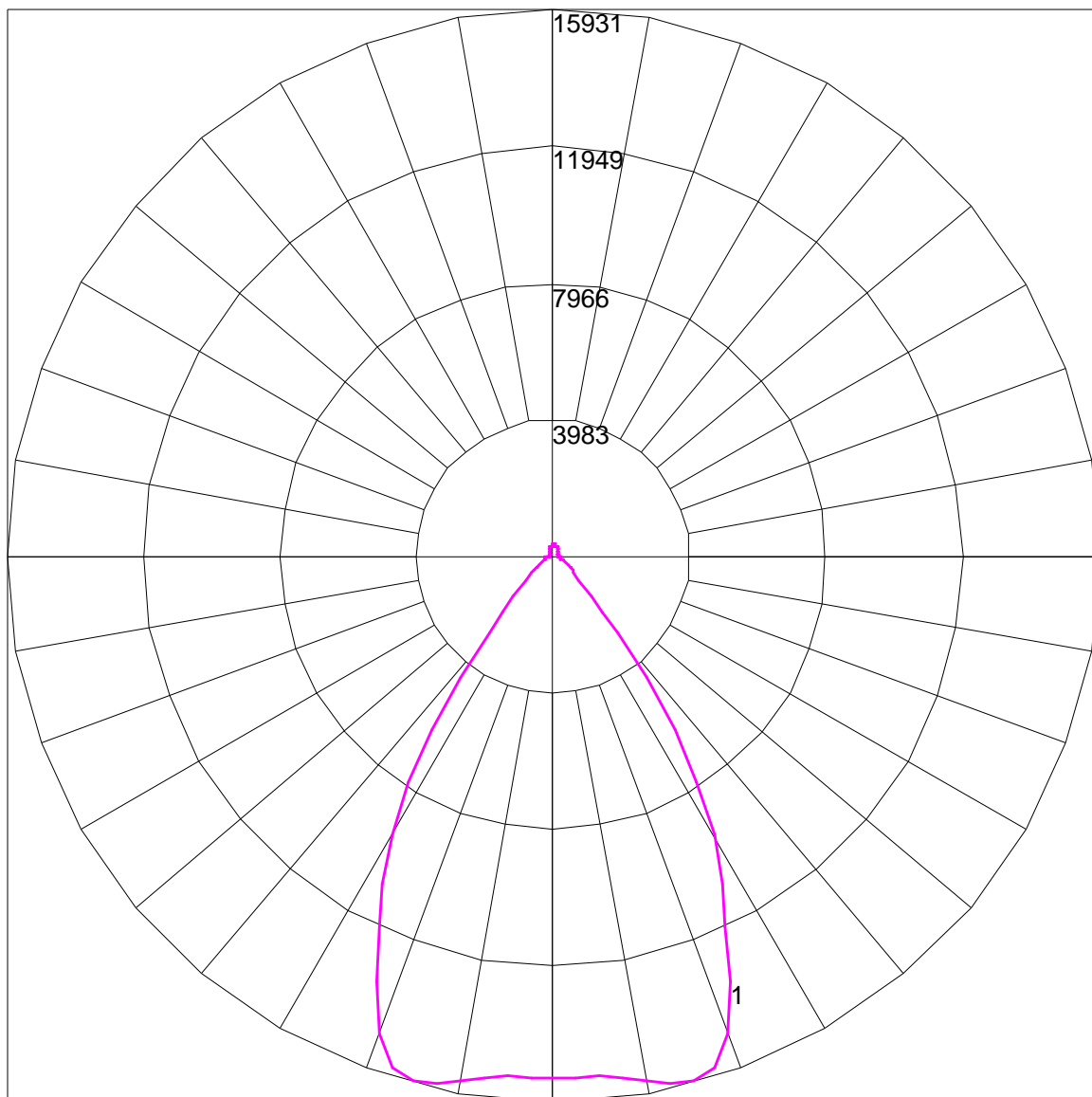
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 15931.453 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)