

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PROCTV22LEDGV-220L40KEX-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-220L

[MANUFAC]SPECTRUM

[LUMCAT] PROCTV22LEDGV-220L-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	17307
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	158
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	6210	5812	6182
55	2628	2757	2537
65	1464	1624	1400
75	1312	1269	1262
85	1481	1128	1455

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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	14058.481	14058.481	14058.481	14058.481	14058.481
2.5	14052.816	13991.560	13990.586	14042.282	14057.330
5.0	14064.412	13905.873	13861.436	13991.472	14053.967
7.5	14170.105	13825.408	13629.071	13936.678	14130.536
10.0	14372.285	13777.696	13366.255	13930.216	14365.911
12.5	14578.890	13820.716	13266.935	14027.411	14554.990
15.0	14659.179	13939.333	13390.332	14123.012	14706.980
17.5	14442.658	13766.808	13464.512	13939.864	14588.715
20.0	13693.779	13323.411	13105.829	13446.100	13868.694
22.5	12435.113	12459.456	12400.767	12593.121	12494.598
25.0	11038.090	11368.624	11548.320	11426.959	11159.097
27.5	9943.363	10182.279	10502.367	10271.153	10086.058
30.0	8680.006	8806.235	8998.235	8882.717	8794.639
32.5	7206.856	7021.938	6948.732	7154.895	7306.352
35.0	5712.284	5303.145	5085.386	5428.224	5833.822
37.5	4106.266	4063.334	3991.987	4065.635	4141.320
40.0	2724.203	3147.063	3398.991	2997.022	2661.531
42.5	2000.198	2235.661	2464.220	2166.970	2037.288
45.0	1507.319	1414.373	1410.832	1413.664	1500.591
47.5	972.127	937.515	924.946	902.107	899.629
50.0	725.775	765.255	795.618	741.975	700.636
52.5	641.504	673.549	695.413	648.940	621.676
55.0	581.045	596.005	609.637	584.586	561.128
57.5	525.366	535.635	529.527	520.055	506.688
60.0	447.911	454.993	448.708	447.380	434.722
62.5	353.106	369.305	381.167	361.339	335.668
65.0	282.290	302.827	313.184	293.444	269.897
67.5	251.928	266.711	276.979	261.311	239.447
70.0	233.870	242.545	253.433	241.217	223.336
72.5	218.290	217.936	225.018	219.353	209.350
75.0	208.199	196.337	201.294	200.144	200.144
77.5	200.055	181.909	184.210	187.928	191.823
80.0	192.797	174.207	170.224	175.624	188.105
82.5	185.538	165.178	150.750	165.444	183.502
85.0	177.217	152.697	134.993	149.599	174.030
87.5	170.135	145.350	125.698	141.632	169.339
90.0	147.917	140.658	123.928	139.773	146.147
92.5	118.617	138.888	132.780	134.019	115.342
95.0	112.952	131.983	140.747	128.000	112.774
97.5	113.660	122.512	143.756	123.574	113.571
100.0	114.191	122.777	136.675	124.548	115.342
102.5	119.591	125.256	136.940	128.443	119.413
105.0	129.682	134.108	135.878	134.904	130.036
107.5	133.577	138.003	136.144	137.295	131.187
110.0	124.990	133.665	138.799	133.223	120.653
112.5	116.846	123.485	131.983	124.282	114.810
115.0	110.473	115.430	119.148	114.545	110.916
117.5	111.712	111.093	115.607	110.916	109.499
120.0	109.853	112.952	115.873	113.217	111.624
122.5	114.191	117.378	118.263	115.607	115.607
125.0	116.758	121.449	123.574	119.768	117.555

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CANDELA TABULATION - (Cont.)

127.5	121.272	126.230	130.213	123.928	122.335
130.0	128.620	134.019	137.560	132.780	130.124
132.5	137.295	142.871	145.261	141.366	136.852
135.0	145.792	150.484	151.900	149.245	144.553
137.5	157.300	160.044	159.779	159.070	156.592
140.0	169.870	170.932	168.896	170.490	168.454
142.5	180.404	175.181	172.437	176.155	178.014
145.0	189.167	181.555	177.306	184.830	188.282
147.5	199.613	194.921	188.902	196.426	200.321
150.0	216.697	210.412	209.615	215.900	217.228
152.5	233.073	232.188	231.922	236.791	235.021
155.0	244.669	248.918	253.256	254.938	245.466
157.5	252.282	260.072	265.294	263.258	255.026
160.0	262.373	264.940	266.445	263.347	259.983
162.5	267.862	263.258	259.718	257.416	261.665
165.0	266.003	257.859	256.088	253.964	261.223
167.5	266.180	257.859	254.761	253.433	261.665
170.0	269.278	264.321	257.593	255.911	262.727
172.5	278.572	274.058	269.809	264.409	265.117
175.0	302.650	303.270	303.447	298.666	279.723
177.5	338.589	344.697	348.326	346.113	313.272
180.0	359.126	359.126	359.126	359.126	359.126

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5258.94	N.A.	30.40
0-30	10430.15	N.A.	60.30
0-40	13893.24	N.A.	80.30
0-60	15654.96	N.A.	90.50
0-80	16183.99	N.A.	93.50
0-90	16353.89	N.A.	94.50
10-90	15025.18	N.A.	86.80
20-40	8634.3	N.A.	49.90
20-50	9864.93	N.A.	57.00
40-70	2075.04	N.A.	12.00
60-80	529.04	N.A.	3.10
70-80	215.71	N.A.	1.20
80-90	169.89	N.A.	1.00
90-110	279.78	N.A.	1.60
90-120	397.43	N.A.	2.30
90-130	506.24	N.A.	2.90
90-150	738.87	N.A.	4.30
90-180	953.08	N.A.	5.50
110-180	673.30	N.A.	3.90
0-180	17306.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1328.7
10-20	3930.24
20-30	5171.2
30-40	3463.09
40-50	1230.63
50-60	531.09
60-70	313.32
70-80	215.71
80-90	169.89
90-100	140.82
100-110	138.96
110-120	117.65
120-130	108.81
130-140	116.07
140-150	116.56
150-160	113.10
160-170	73.71
170-180	27.40

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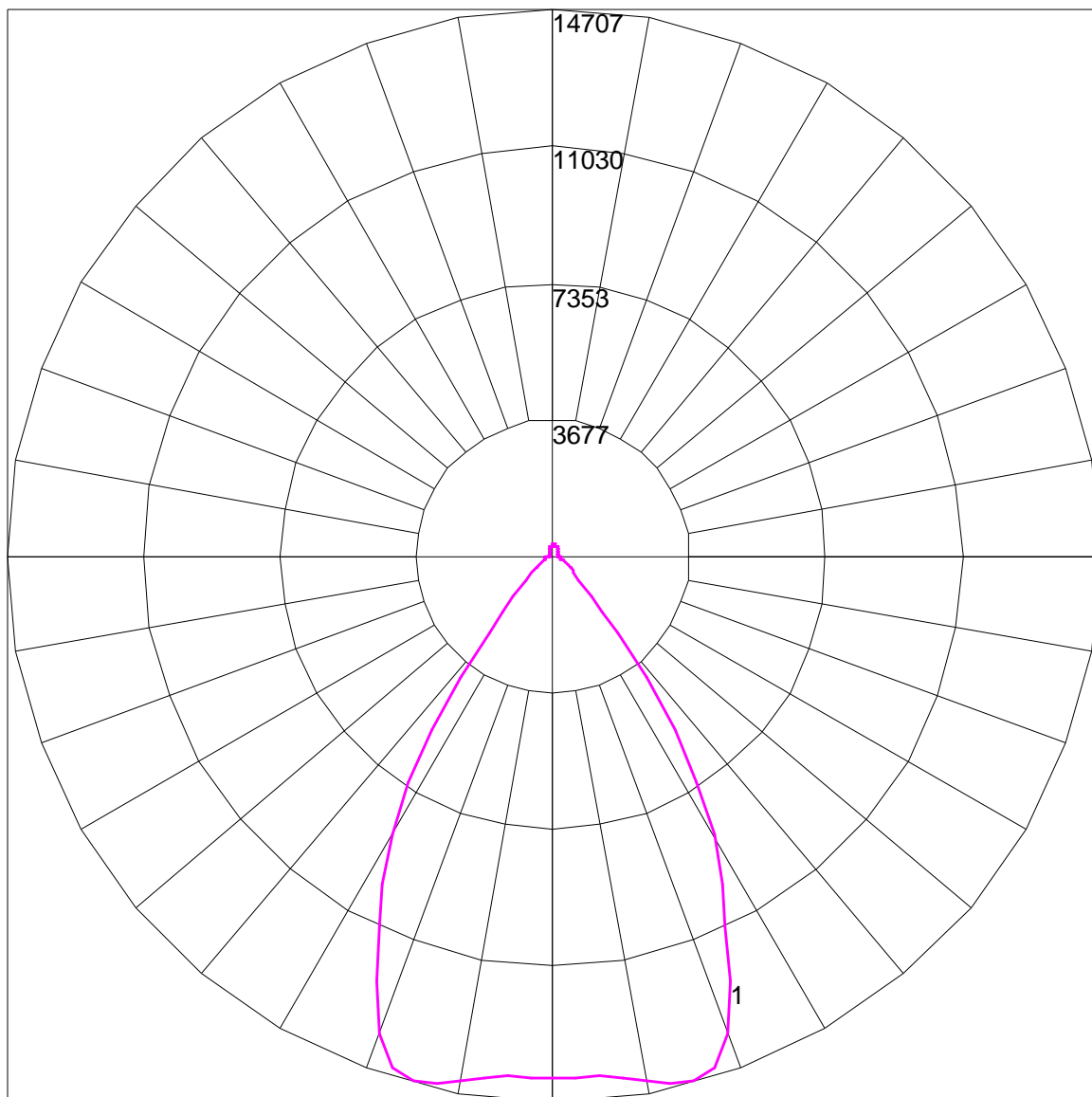
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 14706.98 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)