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IES INDOOR REPORT

PHOTOMETRIC FILENAME : CER-5675.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 13267120.04
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 3/18/2020
[MANUFAC] JUSTICE DESIGN GROUP L L C
[LUMCAT] CER-5675
[LUMINAIRE] White decorative ceramic housing with diffuse plastic lens
[MORE] attached to heatsink
[LAMP] White LED array
[BALLAST] Integrated
[OTHER] 24.9 C, 120.014 V, 0.0959954 A, 11.3277 W, 0.983234 PF, 59.989
[MORE] 3 Hz
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	407
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	11.3277
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	0.35 ft
Luminous Height	0.35 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1306	3252	4347
55	833	1474	3489
65	611	890	2635
75	452	652	1907
85	468	566	1285

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	40.910	40.910	40.910	40.910	40.910	40.910	40.910	40.910	40.910
0.5	39.910	39.530	40.180	40.590	40.870	41.520	42.020	41.770	42.420
1.0	38.610	38.670	39.450	40.270	40.980	42.050	42.710	42.930	43.710
1.5	37.720	38.050	38.790	40.100	41.230	42.650	43.630	43.910	45.190
2.0	37.130	37.970	38.600	40.030	41.640	43.450	44.640	45.170	46.420
2.5	37.120	38.520	38.780	40.070	42.110	44.410	45.710	46.390	47.350
3.0	38.030	39.580	39.260	40.130	42.710	45.320	46.790	47.350	48.540
3.5	39.450	40.940	40.050	40.480	43.090	46.040	48.030	48.640	49.720
4.0	41.020	42.460	41.150	40.820	43.480	46.890	49.130	49.720	50.930
4.5	42.520	44.000	42.550	41.100	44.090	47.750	49.990	50.650	51.750
5.0	43.940	45.910	43.840	41.480	44.610	48.630	50.930	51.450	52.220
5.5	45.560	47.570	45.150	42.050	44.980	49.330	51.980	52.360	52.910
6.0	47.350	49.110	46.430	42.630	45.320	50.230	52.910	52.980	53.500
6.5	49.320	50.710	47.860	43.260	45.750	50.870	53.530	53.660	53.820
7.0	51.080	52.450	49.310	44.010	46.290	51.440	54.160	54.280	54.100
7.5	52.870	54.200	50.620	44.900	46.620	52.230	54.900	54.700	54.620
8.0	54.650	56.010	51.880	45.710	47.100	53.040	55.310	55.190	55.180
8.5	56.370	57.950	53.330	46.550	47.560	53.590	55.870	56.020	56.020
9.0	58.270	59.870	54.720	47.270	47.890	54.180	56.570	56.710	56.680
9.5	60.330	61.670	56.380	48.170	48.110	54.670	57.020	57.200	57.280
10.0	62.510	63.630	57.950	48.980	48.510	55.300	57.580	57.800	57.770
10.5	64.430	65.540	59.340	49.940	48.860	55.710	58.250	58.540	58.460
11.0	66.800	67.460	60.700	50.880	48.990	56.030	58.610	59.370	59.200
11.5	68.640	69.290	62.060	51.770	49.250	56.390	59.200	60.270	59.920
12.0	70.110	70.910	63.490	52.520	49.550	56.610	59.720	60.930	60.690
12.5	71.700	72.270	65.220	53.270	49.840	56.980	60.540	61.690	61.480
13.0	72.920	73.470	66.630	54.080	50.070	57.280	61.090	62.260	62.310
13.5	73.640	74.250	67.970	54.740	50.360	57.600	61.590	62.890	63.130
14.0	73.530	74.120	69.000	55.700	50.520	57.830	62.270	63.580	64.130
14.5	73.010	73.660	70.280	56.540	50.780	58.250	62.790	64.520	65.210
15.0	72.720	73.000	71.730	57.520	51.060	58.520	63.290	65.190	66.140
15.5	72.030	72.410	73.080	58.170	51.360	58.800	63.850	66.060	67.010
16.0	71.670	71.490	74.120	58.800	51.550	59.080	64.400	66.820	67.870
16.5	71.390	71.070	74.840	59.640	51.780	59.120	64.880	67.430	68.760
17.0	70.780	70.640	75.510	60.420	51.940	59.370	65.280	68.160	69.510
17.5	70.940	70.250	75.660	61.190	51.990	59.850	65.500	68.880	70.460
18.0	71.060	70.150	75.300	62.100	52.120	60.170	65.780	69.500	71.670
18.5	70.610	70.360	74.930	62.810	52.360	60.360	66.200	70.380	72.720
19.0	70.660	70.160	74.180	63.170	52.340	60.380	66.410	71.170	73.570
19.5	70.760	69.930	73.210	63.780	52.630	60.680	66.610	71.870	74.360
20.0	70.180	70.050	72.250	64.310	52.890	61.120	67.020	71.870	74.810
20.5	69.940	69.710	71.520	64.790	52.720	61.450	67.110	72.330	75.740
21.0	69.690	69.560	70.730	65.370	52.820	61.540	67.000	73.080	76.480
21.5	69.130	69.250	70.120	65.900	53.020	61.800	67.130	73.480	76.580
22.0	68.430	69.280	69.800	66.290	53.100	61.960	67.410	73.890	77.130
22.5	67.420	69.080	69.380	66.620	52.860	61.810	67.530	73.810	77.670
23.0	67.110	68.610	69.120	67.000	52.920	61.850	67.630	74.240	77.610
23.5	66.570	68.240	68.980	67.340	52.830	62.150	67.790	74.350	77.750
24.0	65.260	68.040	68.730	67.610	52.560	62.160	67.830	74.210	78.160
24.5	64.350	67.850	68.560	67.850	52.250	61.820	67.780	74.360	78.180
25.0	63.680	67.450	68.230	68.040	52.170	61.730	67.770	74.470	77.820
25.5	62.840	66.770	68.300	68.190	51.920	61.560	67.790	74.320	78.000
26.0	61.620	66.250	68.320	68.320	51.620	61.200	67.510	74.240	78.050
26.5	60.460	65.830	67.930	68.460	51.430	61.040	67.520	74.440	77.960

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CANDELA TABULATION - (Cont.)

27.0	59.550	65.710	67.890	68.600	51.280	60.820	67.450	74.210	77.400
27.5	58.240	65.230	67.680	68.600	51.070	60.330	67.300	74.180	77.240
28.0	56.590	64.500	67.270	68.670	50.680	59.810	67.270	74.190	77.280
28.5	55.020	63.860	67.230	68.450	50.580	59.620	67.090	74.460	77.110
29.0	53.510	63.320	67.340	68.200	50.490	59.460	66.810	74.490	76.520
29.5	51.890	62.360	67.110	68.090	50.360	59.150	66.730	74.350	76.560
30.0	50.180	61.160	66.870	68.230	50.060	58.720	66.510	74.400	76.630
30.5	48.670	59.990	66.930	68.210	49.920	58.370	66.430	74.520	76.280
31.0	47.010	58.840	66.810	67.890	49.860	58.110	66.070	74.660	76.060
31.5	45.120	57.520	66.740	67.420	49.720	57.860	65.950	74.320	76.190
32.0	43.540	55.920	66.590	66.980	49.390	57.860	65.680	74.150	76.150
32.5	42.370	54.170	66.230	66.510	49.120	57.630	65.390	74.150	75.770
33.0	40.600	52.170	66.040	66.000	48.970	57.300	65.030	73.980	75.340
33.5	39.070	50.180	65.980	65.360	48.770	56.880	64.900	73.690	75.150
34.0	37.630	48.220	65.860	64.810	48.690	56.450	64.780	73.510	74.800
34.5	36.340	46.280	65.550	63.940	48.430	56.240	64.320	73.230	74.610
35.0	35.120	44.430	65.180	62.950	48.130	55.920	64.040	72.650	74.280
35.5	33.840	42.620	64.790	61.940	47.820	55.590	63.580	72.020	73.810
36.0	32.610	40.900	64.120	60.960	47.490	55.200	63.280	71.720	73.200
36.5	31.430	39.360	63.770	60.020	47.420	54.850	63.080	71.200	72.520
37.0	30.280	37.800	63.370	59.180	47.180	54.540	62.990	70.570	71.620
37.5	29.020	36.370	63.070	58.260	46.910	54.210	62.670	70.090	70.630
38.0	27.970	34.950	62.550	57.270	46.630	53.640	62.320	69.500	69.800
38.5	27.140	33.460	61.770	56.330	46.180	53.280	61.640	68.890	68.960
39.0	26.140	32.210	61.050	55.510	45.850	52.760	61.180	68.020	68.060
39.5	25.050	31.020	60.270	54.610	45.460	52.350	60.730	67.250	67.490
40.0	24.160	29.860	59.390	53.520	45.300	52.050	60.410	66.340	66.630
40.5	23.300	28.780	58.440	52.710	45.040	51.780	60.000	65.520	65.700
41.0	22.550	27.910	57.690	51.930	44.760	51.330	59.680	64.810	64.830
41.5	21.850	27.030	56.490	51.080	44.470	50.820	59.120	64.060	63.780
42.0	20.890	26.160	55.200	50.360	44.290	50.270	58.520	63.320	62.700
42.5	20.210	25.200	53.750	49.620	44.010	49.990	57.840	62.320	61.780
43.0	19.580	24.450	52.180	48.790	43.610	49.620	57.410	61.380	60.830
43.5	18.940	23.790	50.750	48.000	43.330	49.180	56.880	60.510	59.870
44.0	18.220	23.090	49.300	47.340	43.020	48.760	56.310	59.700	59.190
44.5	17.680	22.340	47.600	46.750	42.670	48.320	55.800	58.650	58.300
45.0	17.080	21.610	45.830	45.930	42.090	47.790	55.250	57.820	57.120
45.5	16.490	21.050	44.290	45.110	41.880	47.170	54.500	57.080	56.110
46.0	16.000	20.420	42.640	44.490	41.450	46.760	53.850	56.190	55.340
46.5	15.580	19.790	40.930	43.900	40.910	46.460	53.080	55.080	54.410
47.0	15.130	19.280	39.220	42.970	40.490	45.840	52.540	54.190	53.340
47.5	14.690	18.780	37.840	42.200	40.100	45.200	51.990	53.260	52.220
48.0	14.280	18.200	36.350	41.390	39.600	44.800	51.250	52.260	51.390
48.5	13.960	17.750	34.810	40.610	39.180	44.380	50.590	51.190	50.510
49.0	13.660	17.360	33.390	39.770	38.790	43.800	49.750	50.430	49.470
49.5	13.330	16.960	32.100	39.170	38.320	43.260	49.170	49.420	48.270
50.0	13.120	16.520	30.920	38.410	37.940	42.700	48.520	48.270	47.380
50.5	12.900	16.080	29.650	37.540	37.450	42.220	47.620	47.390	46.590
51.0	12.610	15.750	28.480	36.630	37.030	41.690	46.960	46.560	45.600
51.5	12.430	15.400	27.530	35.920	36.610	41.120	46.230	45.500	44.530
52.0	12.270	15.060	26.460	35.130	36.150	40.550	45.500	44.390	43.610
52.5	12.050	14.730	25.460	34.380	35.730	40.030	44.790	43.580	43.000
53.0	11.820	14.460	24.660	33.750	35.230	39.400	44.010	42.610	42.160
53.5	11.650	14.170	23.810	32.910	34.810	38.920	43.240	41.560	41.250
54.0	11.510	13.860	22.960	32.120	34.340	38.400	42.470	40.690	40.540
54.5	11.350	13.580	22.320	31.350	33.770	37.680	41.760	39.840	39.850

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CANDELA TABULATION - (Cont.)

55.0	11.220	13.370	21.590	30.730	33.270	37.150	40.910	39.030	38.990
55.5	11.070	13.170	20.910	30.140	32.840	36.660	40.130	38.140	38.180
56.0	10.870	12.990	20.270	29.490	32.450	36.110	39.560	37.220	37.560
56.5	10.690	12.770	19.720	28.860	31.960	35.490	38.900	36.460	36.820
57.0	10.540	12.560	19.220	28.170	31.480	34.840	38.110	35.830	36.060
57.5	10.430	12.350	18.690	27.490	30.920	34.350	37.410	35.070	35.440
58.0	10.300	12.150	18.190	26.900	30.380	33.710	36.680	34.270	34.690
58.5	10.150	11.990	17.720	26.390	29.890	33.050	35.960	33.570	34.020
59.0	10.020	11.870	17.250	25.900	29.490	32.510	35.310	32.770	33.160
59.5	9.889	11.720	16.830	25.410	29.070	31.960	34.610	32.000	32.520
60.0	9.759	11.590	16.370	24.890	28.620	31.380	34.090	31.340	31.950
60.5	9.597	11.450	16.010	24.300	28.160	30.760	33.450	30.760	31.370
61.0	9.436	11.320	15.680	23.800	27.570	30.240	32.740	30.150	30.900
61.5	9.289	11.260	15.310	23.370	27.040	29.670	32.120	29.520	30.460
62.0	9.107	11.130	15.010	23.020	26.580	29.160	31.520	28.900	29.910
62.5	8.935	10.990	14.670	22.570	26.160	28.550	30.890	28.320	29.420
63.0	8.802	10.930	14.340	22.020	25.760	28.040	30.390	27.760	28.910
63.5	8.703	10.810	13.990	21.680	25.330	27.520	29.830	27.100	28.440
64.0	8.553	10.710	13.710	21.310	24.810	26.970	29.240	26.570	27.980
64.5	8.365	10.650	13.390	20.960	24.370	26.340	28.620	26.030	27.350
65.0	8.215	10.570	13.130	20.550	23.980	25.790	28.050	25.520	26.830
65.5	8.102	10.430	12.890	20.200	23.520	25.260	27.460	25.010	26.370
66.0	7.960	10.350	12.650	19.790	23.030	24.770	27.010	24.530	25.960
66.5	7.799	10.300	12.380	19.460	22.630	24.300	26.480	24.050	25.520
67.0	7.706	10.110	12.110	19.090	22.140	23.750	26.010	23.520	24.980
67.5	7.545	10.050	11.870	18.780	21.730	23.260	25.500	23.120	24.460
68.0	7.382	9.999	11.640	18.500	21.390	22.720	24.980	22.720	23.950
68.5	7.223	9.906	11.480	18.220	20.920	22.270	24.520	22.290	23.610
69.0	7.132	9.819	11.240	17.880	20.490	21.870	24.000	21.820	23.100
69.5	6.980	9.766	11.010	17.630	20.150	21.360	23.530	21.380	22.480
70.0	6.865	9.712	10.840	17.300	19.650	20.810	23.160	20.950	22.160
70.5	6.736	9.593	10.670	17.070	19.310	20.370	22.680	20.550	21.820
71.0	6.581	9.567	10.490	16.850	18.970	19.980	22.190	20.080	21.360
71.5	6.472	9.532	10.350	16.580	18.570	19.490	21.690	19.710	20.960
72.0	6.361	9.501	10.230	16.300	18.110	18.960	21.320	19.300	20.620
72.5	6.243	9.444	10.060	16.070	17.780	18.560	20.870	18.870	20.160
73.0	6.161	9.427	9.887	15.890	17.450	18.160	20.400	18.520	19.670
73.5	6.092	9.358	9.771	15.680	17.030	17.730	19.960	18.150	19.280
74.0	6.031	9.335	9.649	15.450	16.660	17.270	19.630	17.760	18.980
74.5	5.953	9.344	9.509	15.180	16.290	16.850	19.220	17.380	18.600
75.0	5.886	9.347	9.398	14.980	15.990	16.470	18.760	17.040	18.090
75.5	5.855	9.362	9.230	14.780	15.600	16.040	18.380	16.720	17.680
76.0	5.815	9.314	9.092	14.580	15.220	15.610	18.070	16.350	17.370
76.5	5.793	9.312	8.973	14.380	14.850	15.190	17.620	15.980	16.950
77.0	5.785	9.284	8.887	14.230	14.560	14.770	17.290	15.640	16.620
77.5	5.739	9.243	8.789	14.080	14.270	14.380	16.920	15.370	16.200
78.0	5.689	9.225	8.668	13.870	13.920	13.940	16.530	15.000	15.880
78.5	5.675	9.200	8.571	13.620	13.540	13.520	16.120	14.620	15.530
79.0	5.662	9.187	8.481	13.450	13.210	13.190	15.700	14.230	15.140
79.5	5.663	9.192	8.371	13.290	12.880	12.810	15.330	13.900	14.710
80.0	5.674	9.206	8.292	13.090	12.640	12.370	14.960	13.520	14.450
80.5	5.692	9.192	8.207	12.910	12.320	11.960	14.570	13.190	14.050
81.0	5.685	9.164	8.124	12.770	12.030	11.600	14.240	12.880	13.720
81.5	5.658	9.107	8.061	12.620	11.730	11.210	13.880	12.550	13.390
82.0	5.677	9.092	7.992	12.450	11.400	10.830	13.500	12.170	13.020
82.5	5.677	9.069	7.957	12.260	11.070	10.470	13.110	11.850	12.630

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CANDELA TABULATION - (Cont.)

83.0	5.700	9.094	7.919	12.080	10.760	10.100	12.780	11.500	12.300
83.5	5.708	9.087	7.847	11.910	10.460	9.717	12.410	11.080	11.950
84.0	5.700	9.053	7.803	11.720	10.140	9.386	12.070	10.720	11.580
84.5	5.719	9.035	7.757	11.570	9.850	9.030	11.700	10.420	11.290
85.0	5.715	9.045	7.711	11.410	9.530	8.670	11.370	10.110	11.010
85.5	5.709	9.015	7.689	11.250	9.163	8.312	11.050	9.873	10.850
86.0	5.703	8.979	7.638	11.030	8.795	7.957	10.760	9.698	10.710
86.5	5.716	8.969	7.570	10.840	8.487	7.598	10.510	9.520	10.720
87.0	5.721	8.999	7.560	10.700	8.207	7.325	10.310	9.405	10.630
87.5	5.724	8.997	7.533	10.530	7.900	7.029	10.180	9.295	10.440
88.0	5.727	8.973	7.485	10.340	7.645	6.793	10.050	9.130	10.150
88.5	5.711	8.946	7.428	10.180	7.410	6.589	10.020	9.013	10.260
89.0	5.729	8.952	7.394	10.130	7.271	6.474	9.994	8.951	10.300
89.5	5.739	8.972	7.394	10.040	7.152	6.419	9.963	8.949	10.340
90.0	5.737	8.968	7.384	9.901	7.066	6.467	9.953	8.966	10.400
90.5	6.072	8.990	8.011	10.230	6.209	6.419	10.130	9.409	10.440
91.0	6.084	8.997	8.052	10.310	6.350	6.502	10.170	9.433	10.560
91.5	6.067	8.978	8.108	10.450	6.531	6.668	10.270	9.544	10.740
92.0	6.084	8.988	8.141	10.550	6.761	6.901	10.400	9.653	10.940
92.5	6.081	9.006	8.186	10.690	7.039	7.160	10.580	9.811	11.130
93.0	6.106	9.061	8.237	10.830	7.415	7.476	10.800	9.976	11.310
93.5	6.128	9.095	8.287	11.070	7.815	7.790	11.010	10.220	11.480
94.0	6.147	9.079	8.361	11.290	8.179	8.176	11.260	10.390	11.730
94.5	6.174	9.092	8.431	11.510	8.535	8.549	11.540	10.630	12.020
95.0	6.191	9.141	8.503	11.700	8.869	8.892	11.880	10.950	12.370
95.5	6.193	9.190	8.562	11.900	9.210	9.292	12.180	11.190	12.720
96.0	6.175	9.218	8.645	12.120	9.595	9.671	12.490	11.460	13.020
96.5	6.201	9.203	8.758	12.370	9.950	10.030	12.790	11.750	13.360
97.0	6.227	9.251	8.806	12.600	10.310	10.420	13.090	12.100	13.730
97.5	6.265	9.320	8.877	12.720	10.700	10.790	13.380	12.390	14.080
98.0	6.276	9.311	9.007	12.940	11.040	11.160	13.660	12.710	14.480
98.5	6.280	9.343	9.064	13.180	11.400	11.520	14.000	13.040	14.860
99.0	6.292	9.403	9.113	13.340	11.780	11.860	14.370	13.320	15.240
99.5	6.301	9.456	9.235	13.570	12.140	12.280	14.690	13.640	15.580
100.0	6.327	9.494	9.307	13.800	12.520	12.700	15.010	13.960	15.950
100.5	6.356	9.511	9.356	13.990	12.840	13.070	15.330	14.320	16.410
101.0	6.352	9.543	9.414	14.140	13.220	13.450	15.660	14.610	16.780
101.5	6.397	9.588	9.519	14.340	13.590	13.870	16.030	14.950	17.110
102.0	6.424	9.660	9.577	14.570	13.910	14.250	16.310	15.300	17.520
102.5	6.440	9.670	9.616	14.750	14.230	14.650	16.690	15.600	17.980
103.0	6.454	9.671	9.693	14.930	14.570	15.140	17.120	15.870	18.360
103.5	6.509	9.728	9.768	15.090	14.990	15.570	17.480	16.280	18.750
104.0	6.542	9.757	9.794	15.350	15.350	15.970	17.830	16.650	19.190
104.5	6.548	9.775	9.878	15.580	15.720	16.390	18.210	16.970	19.670
105.0	6.562	9.783	9.942	15.810	16.120	16.830	18.600	17.330	20.080
105.5	6.616	9.874	10.000	16.070	16.560	17.270	18.980	17.720	20.420
106.0	6.654	9.911	10.040	16.310	16.930	17.740	19.350	18.090	20.880
106.5	6.709	9.913	10.130	16.570	17.380	18.270	19.760	18.420	21.360
107.0	6.790	9.960	10.190	16.930	17.860	18.760	20.180	18.800	21.700
107.5	6.848	10.010	10.260	17.200	18.350	19.210	20.640	19.180	22.120
108.0	6.880	10.110	10.310	17.500	18.750	19.720	21.110	19.580	22.600
108.5	6.967	10.160	10.350	17.850	19.210	20.220	21.560	19.930	23.090
109.0	7.035	10.250	10.430	18.160	19.680	20.740	21.940	20.350	23.480
109.5	7.069	10.330	10.550	18.430	20.150	21.250	22.400	20.750	23.890
110.0	7.159	10.380	10.650	18.780	20.660	21.780	22.970	21.250	24.380
110.5	7.275	10.410	10.730	19.140	21.150	22.290	23.450	21.660	24.900

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CANDELA TABULATION - (Cont.)

111.0	7.341	10.500	10.760	19.510	21.650	22.780	23.840	22.040	25.330
111.5	7.457	10.600	10.850	19.930	22.110	23.300	24.320	22.490	25.720
112.0	7.574	10.700	10.950	20.290	22.680	23.810	24.950	22.990	26.180
112.5	7.648	10.790	11.080	20.720	23.230	24.330	25.480	23.400	26.770
113.0	7.692	10.900	11.180	21.120	23.720	24.880	25.960	23.810	27.200
113.5	7.839	10.970	11.320	21.460	24.200	25.430	26.460	24.250	27.580
114.0	7.990	11.060	11.440	21.880	24.630	25.940	27.130	24.850	28.240
114.5	8.126	11.150	11.540	22.350	25.160	26.510	27.670	25.250	28.720
115.0	8.258	11.290	11.660	22.790	25.690	27.120	28.160	25.710	29.180
115.5	8.409	11.430	11.860	23.280	26.150	27.660	28.810	26.310	29.610
116.0	8.553	11.610	12.050	23.860	26.750	28.230	29.450	26.840	30.160
116.5	8.707	11.750	12.210	24.360	27.360	28.730	30.070	27.450	30.760
117.0	8.893	11.890	12.390	24.840	27.890	29.330	30.720	28.150	31.390
117.5	9.088	11.940	12.610	25.380	28.350	29.870	31.410	28.750	31.920
118.0	9.288	12.100	12.800	25.930	28.870	30.380	32.100	29.410	32.500
118.5	9.527	12.260	13.010	26.480	29.430	30.990	32.770	30.090	33.070
119.0	9.745	12.360	13.290	27.050	30.020	31.650	33.410	30.790	33.700
119.5	9.955	12.470	13.510	27.680	30.500	32.220	34.060	31.500	34.270
120.0	10.130	12.640	13.720	28.360	31.060	32.830	34.820	32.320	34.780
120.5	10.310	12.760	13.940	29.110	31.590	33.490	35.580	33.170	35.430
121.0	10.550	12.870	14.210	29.820	32.100	34.100	36.250	33.930	36.120
121.5	10.740	12.990	14.510	30.460	32.630	34.670	37.100	34.650	36.900
122.0	10.950	13.140	14.750	31.120	33.200	35.320	37.900	35.350	37.650
122.5	11.100	13.270	15.020	31.930	33.780	36.010	38.750	36.280	38.310
123.0	11.250	13.350	15.370	32.820	34.310	36.580	39.540	37.120	38.990
123.5	11.440	13.500	15.650	33.640	34.780	37.120	40.300	37.920	39.520
124.0	11.610	13.670	15.960	34.380	35.400	37.860	41.010	38.770	40.250
124.5	11.760	13.770	16.320	35.240	35.880	38.590	41.700	39.570	41.010
125.0	11.930	13.910	16.810	36.200	36.360	39.130	42.640	40.470	41.790
125.5	12.170	14.040	17.240	37.100	36.930	39.850	43.410	41.500	42.670
126.0	12.360	14.230	17.620	38.070	37.530	40.560	44.210	42.530	43.610
126.5	12.510	14.390	18.020	39.080	38.080	41.110	45.230	43.450	44.480
127.0	12.760	14.560	18.490	40.060	38.620	41.690	46.030	44.390	45.270
127.5	12.990	14.860	18.990	41.010	39.120	42.390	46.820	45.430	46.380
128.0	13.320	15.080	19.460	42.120	39.750	43.100	47.730	46.390	47.400
128.5	13.620	15.280	19.970	43.340	40.200	43.860	48.590	47.450	48.150
129.0	13.910	15.560	20.530	44.420	40.720	44.520	49.330	48.670	49.320
129.5	14.160	15.870	21.140	45.490	41.130	45.120	50.260	49.720	50.490
130.0	14.560	16.120	21.760	46.750	41.760	45.750	51.170	50.660	51.380
130.5	14.870	16.350	22.400	47.950	42.400	46.440	51.870	51.560	52.370
131.0	15.150	16.610	23.080	49.290	42.740	47.110	52.680	52.820	53.580
131.5	15.540	16.920	23.810	50.610	43.290	47.780	53.550	53.880	54.660
132.0	15.920	17.220	24.500	52.110	43.950	48.510	54.650	54.840	55.480
132.5	16.260	17.510	25.240	53.330	44.390	49.180	55.400	55.850	56.610
133.0	16.510	17.800	26.050	54.670	44.830	49.960	56.100	56.930	57.810
133.5	16.820	18.090	26.900	55.960	45.560	50.490	57.100	57.970	58.560
134.0	17.210	18.410	27.770	57.330	46.140	51.110	57.890	59.040	59.570
134.5	17.530	18.710	28.620	58.950	46.610	51.740	58.730	60.040	60.740
135.0	17.780	18.990	29.470	60.320	47.090	52.490	59.580	61.090	61.910
135.5	18.140	19.350	30.330	61.590	47.610	53.010	60.390	62.040	62.580
136.0	18.520	19.710	31.370	63.010	48.020	53.420	61.200	62.910	63.610
136.5	18.770	20.030	32.350	64.430	48.430	54.120	62.100	64.040	64.790
137.0	19.120	20.300	33.360	65.610	48.910	54.670	62.690	65.080	65.810
137.5	19.470	20.690	34.370	66.760	49.340	55.140	63.440	65.940	66.770
138.0	19.740	21.150	35.470	68.090	49.670	55.810	64.150	66.860	67.420
138.5	20.050	21.540	36.580	69.390	49.910	56.320	64.790	67.730	68.160

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CANDELA TABULATION - (Cont.)

139.0	20.350	22.030	37.590	70.640	50.290	56.590	65.440	68.630	69.470
139.5	20.630	22.580	38.640	71.760	50.580	57.130	66.340	69.680	70.340
140.0	20.980	23.110	39.800	72.860	50.770	57.610	66.920	70.400	71.150
140.5	21.290	23.670	41.030	73.820	51.000	58.330	67.250	70.990	71.960
141.0	21.630	24.240	42.100	74.790	51.450	58.730	67.800	71.960	72.560
141.5	21.940	24.880	43.280	75.670	51.880	59.040	68.510	72.860	73.160
142.0	22.360	25.580	44.440	76.430	52.080	59.500	69.230	73.470	74.030
142.5	22.750	26.320	45.620	77.080	52.340	59.860	69.720	73.990	74.830
143.0	23.130	27.010	46.950	77.740	52.660	60.160	70.120	74.770	75.810
143.5	23.450	27.790	48.520	78.310	52.920	60.680	70.600	75.370	76.440
144.0	23.830	28.720	50.060	79.020	53.140	61.120	71.140	76.120	76.880
144.5	24.310	29.650	51.670	79.450	53.470	61.310	71.520	76.760	77.340
145.0	24.870	30.600	53.350	79.500	53.790	61.620	72.180	77.270	77.890
145.5	25.510	31.720	55.140	79.750	54.020	61.890	72.820	77.710	78.420
146.0	26.150	32.780	57.340	80.040	54.320	62.320	73.330	78.310	79.270
146.5	26.840	33.900	59.490	80.400	54.660	62.610	73.630	78.920	79.800
147.0	27.630	35.240	61.760	80.650	54.780	62.900	74.030	79.400	80.360
147.5	28.420	36.590	64.420	80.780	55.120	63.020	74.290	79.480	80.830
148.0	29.350	37.960	67.250	80.820	55.350	63.340	74.570	79.850	81.240
148.5	30.430	39.440	70.010	81.010	55.450	63.700	74.880	80.250	81.570
149.0	31.730	41.140	72.690	81.020	55.650	64.010	75.500	80.780	81.670
149.5	32.980	42.750	75.520	80.900	55.910	64.260	75.740	81.160	81.980
150.0	34.370	44.370	78.370	80.930	56.290	64.550	75.800	81.400	82.430
150.5	35.720	45.990	80.860	80.780	56.590	64.780	76.030	81.570	82.800
151.0	37.320	47.690	83.370	80.510	56.630	64.930	76.020	81.700	82.840
151.5	39.000	49.440	85.620	80.310	56.820	65.190	76.110	82.230	83.570
152.0	40.870	51.390	87.960	80.420	56.970	65.680	76.130	82.210	83.980
152.5	42.660	53.340	89.870	80.300	57.210	65.920	76.110	82.340	84.440
153.0	44.360	55.320	91.380	79.870	57.350	65.970	76.380	82.420	84.360
153.5	46.250	57.780	93.090	79.700	57.520	66.210	76.460	82.820	84.750
154.0	48.370	60.230	94.210	79.410	57.600	66.370	76.180	82.750	85.290
154.5	50.490	62.770	94.970	78.940	57.670	66.330	76.270	82.820	85.640
155.0	52.450	65.710	96.040	78.830	57.910	66.390	76.090	83.200	85.360
155.5	54.730	69.220	96.640	78.470	58.070	66.610	75.970	83.490	85.390
156.0	57.320	72.490	97.210	77.770	58.200	66.640	75.710	83.470	85.680
156.5	59.830	75.570	97.370	77.490	58.300	66.390	75.690	83.610	85.610
157.0	62.480	78.950	97.250	77.080	58.410	66.110	75.710	83.170	85.100
157.5	65.830	82.430	97.480	76.490	58.370	66.160	75.440	82.940	84.530
158.0	68.670	85.750	97.400	75.940	58.510	65.970	75.040	82.880	84.490
158.5	71.570	88.590	96.840	75.290	58.450	65.630	75.120	82.680	83.910
159.0	74.690	91.040	96.290	74.540	58.300	65.480	74.840	82.200	82.950
159.5	78.230	92.890	95.820	73.910	58.140	65.450	74.300	81.420	82.110
160.0	81.210	94.370	94.990	73.400	57.900	65.280	73.910	81.150	81.300
160.5	84.310	95.740	93.890	72.620	57.620	64.870	73.780	80.480	80.650
161.0	87.360	96.580	92.940	72.180	57.600	64.640	73.440	79.520	79.400
161.5	89.870	96.910	92.130	71.690	57.400	64.470	72.850	78.570	78.330
162.0	91.680	97.270	91.240	70.930	57.150	64.430	72.200	78.080	77.350
162.5	92.860	97.310	89.980	70.170	56.960	64.350	71.860	77.270	76.620
163.0	93.950	96.710	88.650	69.440	56.780	63.990	71.500	76.130	75.670
163.5	94.670	95.690	87.510	69.050	56.640	63.630	70.820	75.170	74.290
164.0	95.120	94.760	86.050	68.370	56.150	63.500	70.270	74.460	73.310
164.5	94.910	93.580	84.330	67.560	55.890	63.280	69.740	73.710	72.300
165.0	94.190	92.390	82.960	66.870	55.630	63.060	69.200	72.810	71.350
165.5	92.940	91.240	81.650	66.150	55.460	62.690	68.330	72.020	70.450
166.0	91.830	89.670	80.230	65.430	55.130	62.520	67.500	71.070	69.780
166.5	90.530	87.760	78.790	64.590	54.790	62.070	66.670	70.290	68.960

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CANDELA TABULATION - (Cont.)

167.0	88.920	85.680	77.250	63.790	54.510	61.710	66.220	69.210	68.020
167.5	87.250	83.740	75.530	62.970	54.230	61.180	65.480	68.480	66.800
168.0	85.860	81.900	73.770	62.000	53.980	60.690	64.700	67.590	65.750
168.5	83.980	79.890	72.300	61.160	53.610	60.240	64.010	66.340	64.610
169.0	81.990	77.810	70.770	60.230	53.250	59.850	63.320	65.270	63.840
169.5	79.570	75.960	69.140	59.490	52.810	59.390	62.600	64.280	62.820
170.0	77.330	73.890	67.340	58.630	52.410	58.790	61.920	63.280	61.770
170.5	75.210	71.590	65.860	57.640	52.050	58.170	61.430	62.370	60.710
171.0	73.180	69.560	64.490	56.650	51.630	57.590	60.930	61.380	59.780
171.5	71.370	67.700	63.090	55.690	51.080	57.010	60.390	60.550	58.860
172.0	69.380	65.850	61.580	54.920	50.770	56.360	59.630	59.660	58.000
172.5	67.330	63.960	59.990	54.010	50.370	55.520	58.910	59.140	57.330
173.0	65.170	62.090	58.700	52.860	49.910	54.630	58.060	58.490	56.880
173.5	63.060	60.280	57.310	51.940	49.240	53.970	57.320	57.770	56.320
174.0	61.370	58.520	55.750	51.080	48.710	53.140	56.440	56.960	55.610
174.5	59.440	56.650	54.080	50.030	48.230	52.460	55.350	56.000	54.620
175.0	57.300	54.790	52.700	49.120	47.710	51.740	54.440	54.940	53.570
175.5	55.680	53.180	51.400	48.450	47.180	50.810	53.450	53.930	52.760
176.0	53.910	51.500	49.990	47.530	46.670	49.900	52.410	52.730	51.580
176.5	52.040	49.900	48.690	46.720	46.220	48.940	51.080	51.620	50.340
177.0	50.500	48.490	47.330	45.790	45.620	47.900	49.910	50.550	49.360
177.5	49.020	47.160	46.180	45.030	44.900	46.920	48.800	49.410	48.250
178.0	47.460	45.780	45.290	44.390	44.270	46.120	47.810	48.240	46.920
178.5	45.940	44.900	44.590	44.010	43.990	45.260	46.710	46.940	45.570
179.0	44.920	44.280	44.050	43.730	43.770	44.590	45.580	45.780	44.500
179.5	44.030	43.830	43.920	43.520	43.470	44.120	44.580	44.850	43.690
180.0	43.790	43.790	43.790	43.790	43.790	43.790	43.790	43.790	43.790

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	22.77	N.A.	5.60
0-30	53.23	N.A.	13.10
0-40	89.64	N.A.	22.00
0-60	150.82	N.A.	37.10
0-80	186.50	N.A.	45.90
0-90	197.08	N.A.	48.50
10-90	192.30	N.A.	47.30
20-40	66.88	N.A.	16.40
20-50	100.91	N.A.	24.80
40-70	81.74	N.A.	20.10
60-80	35.68	N.A.	8.80
70-80	15.12	N.A.	3.70
80-90	10.57	N.A.	2.60
90-110	26.58	N.A.	6.50
90-120	47.95	N.A.	11.80
90-130	76.36	N.A.	18.80
90-150	149.44	N.A.	36.80
90-180	209.51	N.A.	51.50
110-180	182.94	N.A.	45.00
0-180	406.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.77
10-20	17.99
20-30	30.46
30-40	36.41
40-50	34.04
50-60	27.14
60-70	20.56
70-80	15.12
80-90	10.57
90-100	10.92
100-110	15.65
110-120	21.37
120-130	28.41
130-140	35.46
140-150	37.62
150-160	33.98
160-170	20.73
170-180	5.36

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CER-5675.IES

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45	39
2	88	80	74	68	80	74	68	64	62	58	54	51	48	46	41	39	37	33
3	80	70	63	57	73	65	58	53	55	50	46	45	42	39	37	34	32	28
4	73	62	54	48	67	57	50	45	49	43	39	40	36	33	33	30	27	24
5	67	55	47	41	61	51	44	38	43	38	33	36	32	29	29	26	24	20
6	62	50	41	36	57	46	39	33	39	33	29	33	28	25	27	23	21	18
7	57	45	37	31	52	41	34	29	35	30	26	30	25	22	24	21	18	16
8	53	41	33	27	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	29	24	45	34	28	23	29	24	20	25	21	17	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

IES INDOOR REPORT
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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	4.7	5.6	5.7	6.6	7.8	10.7	11.5	11.6	12.5	13.8
	3H	6.5	7.3	7.5	8.3	9.6	12.1	12.9	13.1	13.9	15.2
	4H	7.3	8.0	8.3	9.0	10.3	12.7	13.4	13.7	14.4	15.7
	6H	8.1	8.8	9.1	9.8	11.1	13.2	13.9	14.2	14.9	16.2
	8H	8.5	9.2	9.5	10.2	11.5	13.4	14.0	14.4	15.0	16.4
	12H	9.0	9.6	10.0	10.6	11.9	13.5	14.2	14.6	15.2	16.5

UGR Viewed Endwise

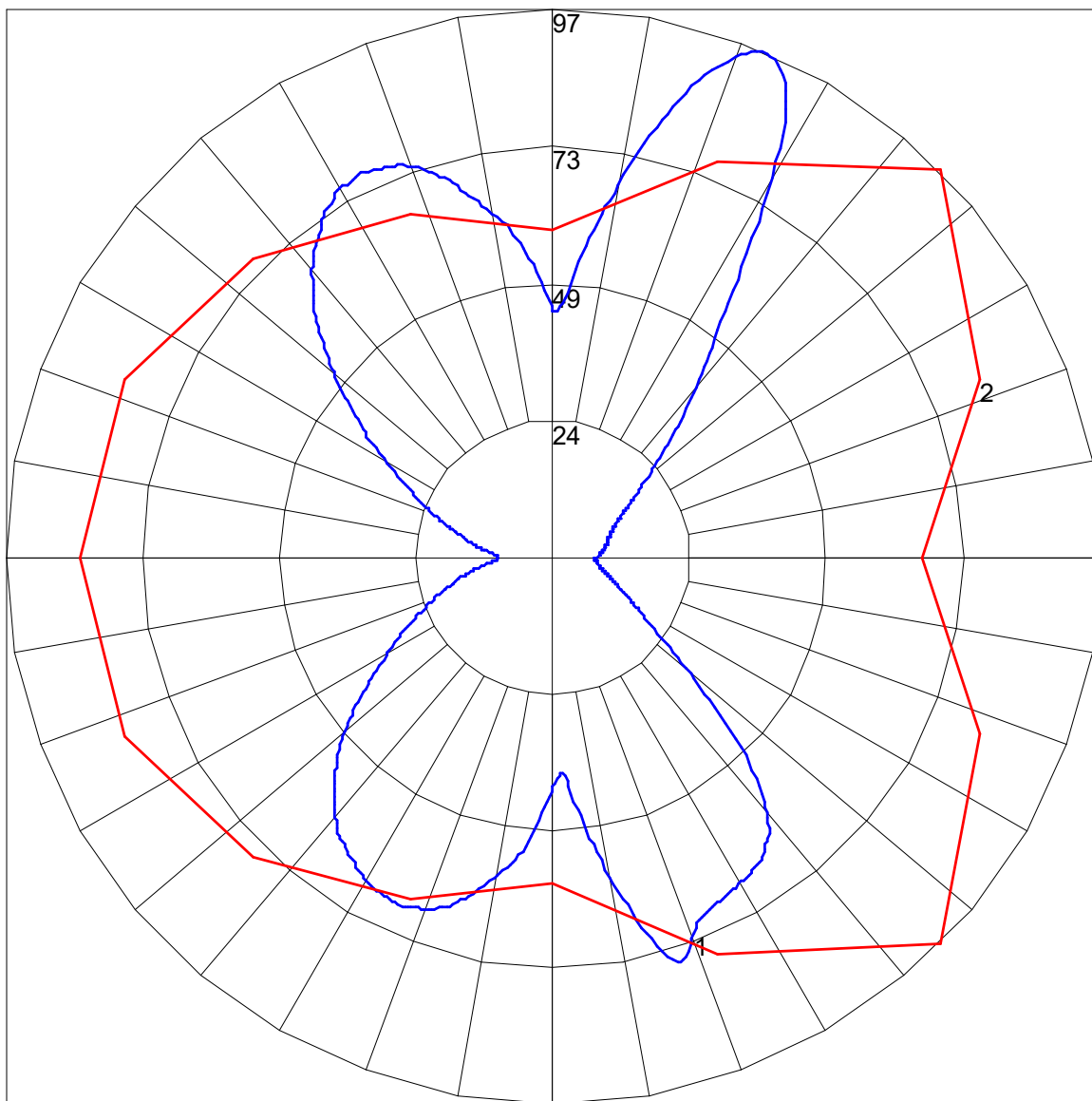
4H	2H	5.6	6.3	6.6	7.3	8.6	11.0	11.7	12.0	12.7	14.0
	3H	7.6	8.2	8.6	9.2	10.5	12.7	13.3	13.7	14.3	15.6
	4H	8.6	9.2	9.6	10.2	11.5	13.4	14.0	14.4	15.0	16.3
	6H	9.6	10.1	10.7	11.2	12.5	14.0	14.5	15.1	15.6	16.9
	8H	10.2	10.6	11.2	11.7	13.0	14.3	14.8	15.3	15.8	17.2
	12H	10.7	11.1	11.7	12.1	13.5	14.5	15.0	15.6	16.0	17.4

8H	4H	9.1	9.6	10.1	10.6	12.0	13.6	14.0	14.6	15.1	16.4
	6H	10.4	10.8	11.4	11.9	13.2	14.4	14.8	15.4	15.8	17.2
	8H	11.1	11.5	12.2	12.5	13.9	14.8	15.1	15.8	16.2	17.5
	12H	11.8	12.2	12.9	13.2	14.6	15.1	15.4	16.2	16.5	17.9

12H	4H	9.3	9.7	10.3	10.7	12.1	13.6	14.0	14.6	15.1	16.4
	6H	10.6	10.9	11.6	12.0	13.4	14.4	14.8	15.5	15.8	17.2
	8H	11.4	11.7	12.4	12.7	14.2	14.9	15.2	15.9	16.2	17.7

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 97.48 Located At Horizontal Angle = 45, Vertical Angle = 157.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (157.5) (Through Max. Cd.)