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IES INDOOR REPORT
PHOTOMETRIC FILENAME : CER-5865.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 13267120.05
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 3/18/2020
[MANUFAC] JUSTICE DESIGN GROUP L L C
[LUMCAT] CER-5865
[LUMINAIRE] White decorative ceramic housing with diffuse plastic lens
[MORE] attached to heatsink
[LAMP] White LED array
[BALLAST] Integrated
[OTHER] 24.6 C, 120.027 V, 0.0965241 A, 11.3908 W, 0.983192 PF, 59.988
[MORE] 9 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	323
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	28
Total Luminaire Watts	11.3908
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)	0.25 ft
Luminous Width (90-270)	0.40 ft
Luminous Height	0.79 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1614	2208	2454
55	1374	1371	2035
65	917	898	1301
75	844	620	656
85	809	547	178

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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	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
0.5	0.37	0.38	0.36	0.37	0.38	0.38	0.36	0.36	0.38
1.0	0.40	0.38	0.37	0.38	0.40	0.39	0.36	0.37	0.38
1.5	0.38	0.37	0.36	0.38	0.39	0.38	0.35	0.36	0.39
2.0	0.39	0.37	0.38	0.39	0.41	0.36	0.37	0.38	0.36
2.5	0.38	0.39	0.38	0.38	0.41	0.37	0.35	0.36	0.36
3.0	0.38	0.37	0.37	0.39	0.40	0.35	0.37	0.35	0.37
3.5	0.38	0.39	0.36	0.38	0.41	0.37	0.36	0.36	0.37
4.0	0.40	0.38	0.38	0.41	0.41	0.39	0.36	0.37	0.37
4.5	0.41	0.40	0.40	0.45	0.44	0.45	0.36	0.38	0.37
5.0	0.39	0.40	0.43	0.50	0.51	0.54	0.41	0.39	0.37
5.5	0.40	0.40	0.48	0.53	0.64	0.71	0.43	0.36	0.36
6.0	0.40	0.41	0.53	0.59	0.83	0.87	0.58	0.37	0.37
6.5	0.43	0.43	0.57	0.68	0.97	1.00	0.74	0.39	0.37
7.0	0.47	0.49	0.59	0.86	1.17	1.14	0.89	0.47	0.36
7.5	0.45	0.55	0.64	1.19	1.75	1.52	1.07	0.59	0.37
8.0	0.44	0.62	0.78	1.94	2.77	2.34	1.21	0.78	0.37
8.5	0.57	0.74	1.30	3.31	4.21	3.66	1.51	0.94	0.38
9.0	0.54	0.71	2.36	5.28	5.85	5.35	2.24	1.11	0.44
9.5	0.31	0.90	4.35	7.42	7.29	6.85	3.45	1.12	0.85
10.0	0.63	2.04	6.84	9.01	8.19	8.01	4.89	1.32	1.00
10.5	1.06	3.66	9.02	10.35	8.84	9.20	6.32	1.90	1.16
11.0	1.09	5.65	10.79	11.37	9.69	10.25	7.67	2.42	1.40
11.5	1.41	7.82	12.56	12.57	10.46	11.41	9.34	3.31	1.95
12.0	2.58	10.20	14.39	13.87	11.66	12.53	11.16	4.06	2.34
12.5	4.22	12.70	16.38	15.39	13.19	13.62	13.16	5.21	3.07
13.0	6.16	15.34	18.64	17.17	14.60	14.75	15.07	6.77	4.26
13.5	8.45	18.00	21.18	18.89	15.36	16.02	16.82	8.75	5.68
14.0	11.22	21.02	23.86	20.44	16.02	17.35	18.54	11.20	7.43
14.5	14.01	24.05	27.00	21.92	16.82	18.57	20.52	13.80	9.72
15.0	16.90	27.35	30.41	23.59	17.55	19.86	22.46	16.11	12.31
15.5	19.29	30.67	34.08	25.39	18.32	21.37	24.20	18.13	15.37
16.0	21.47	33.93	37.97	27.37	19.06	22.93	25.81	19.88	18.41
16.5	23.46	37.06	42.07	29.35	19.84	24.42	27.82	21.86	21.35
17.0	25.31	40.23	46.31	31.50	20.60	26.05	29.78	23.74	24.05
17.5	27.05	43.29	50.21	33.72	21.27	27.39	31.76	25.46	25.92
18.0	28.85	46.15	53.97	35.95	21.90	28.99	33.84	26.98	27.30
18.5	30.35	48.53	57.65	38.12	22.69	30.51	35.93	28.80	28.62
19.0	31.93	50.91	61.10	40.33	23.37	32.04	37.94	30.62	29.96
19.5	33.62	53.39	64.20	42.62	24.08	33.71	39.87	32.28	31.40
20.0	34.95	55.50	67.39	44.78	24.89	35.44	41.59	34.00	32.76
20.5	36.02	57.58	70.91	46.84	25.72	37.03	43.37	35.74	34.21
21.0	37.12	59.59	73.94	49.04	26.46	38.70	45.02	37.27	35.69
21.5	37.87	61.66	76.65	51.35	27.09	40.09	46.62	38.61	37.22
22.0	38.79	63.50	79.49	53.30	27.89	41.35	48.05	39.62	38.70
22.5	39.29	65.34	82.31	55.13	28.80	42.91	49.47	40.73	40.21
23.0	39.76	66.87	85.02	57.12	29.60	44.33	51.21	42.41	41.59
23.5	40.00	68.58	87.16	58.76	30.20	45.41	52.83	43.88	43.03
24.0	40.50	69.93	89.52	60.24	30.86	46.54	54.24	45.19	44.53
24.5	40.56	71.11	91.28	61.88	31.58	47.74	55.74	46.41	45.66
25.0	40.77	72.27	93.08	63.61	32.12	48.66	57.48	47.93	46.60
25.5	40.81	73.27	94.83	64.75	32.81	49.59	59.01	49.24	47.37
26.0	40.75	74.33	96.20	65.88	33.53	50.56	60.40	50.45	48.05
26.5	40.45	74.91	97.74	67.34	34.22	51.39	61.79	52.07	48.75

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CANDELA TABULATION - (Cont.)

27.0	40.17	75.23	99.06	68.50	34.67	52.22	63.10	53.39	49.43
27.5	39.94	75.46	100.10	69.56	35.34	53.08	64.36	54.50	49.62
28.0	39.65	75.74	101.50	70.60	35.98	53.71	65.48	55.63	49.88
28.5	39.10	75.73	102.80	71.59	36.52	54.31	66.62	56.53	50.03
29.0	38.53	75.44	103.50	72.59	37.06	54.99	67.64	57.00	50.29
29.5	37.93	75.29	104.10	73.30	37.72	55.79	68.41	57.18	50.04
30.0	37.37	75.06	105.00	74.04	38.34	56.51	69.28	57.36	49.79
30.5	36.72	74.53	105.50	75.02	38.87	57.03	69.90	57.54	49.74
31.0	36.34	73.71	105.60	75.85	39.44	57.64	70.49	57.21	49.39
31.5	36.14	72.63	106.10	76.79	40.20	58.17	71.12	56.93	48.73
32.0	35.83	71.59	106.30	77.38	40.85	58.84	71.49	56.59	48.26
32.5	35.61	70.58	106.10	78.00	41.47	59.34	71.60	56.15	47.70
33.0	35.29	69.44	105.70	78.55	42.09	59.80	71.75	55.55	46.77
33.5	35.02	68.13	104.90	79.22	42.61	60.42	71.84	54.96	45.87
34.0	34.82	66.92	104.00	79.89	42.85	61.00	71.47	54.06	44.99
34.5	34.74	65.77	103.20	80.60	43.32	61.43	71.08	53.08	44.19
35.0	34.65	64.63	102.30	81.00	43.80	61.67	70.90	52.24	43.37
35.5	34.36	63.53	101.10	81.46	44.27	61.91	70.28	51.18	42.22
36.0	34.13	62.34	99.70	81.79	44.65	62.10	69.70	50.11	41.02
36.5	34.16	61.38	98.31	82.18	44.98	62.49	68.91	49.01	40.00
37.0	34.04	60.51	96.62	82.72	45.27	62.67	68.11	47.99	38.95
37.5	33.85	59.59	94.80	83.08	45.62	62.68	67.25	46.79	37.82
38.0	33.94	58.51	92.87	83.17	45.82	62.75	66.21	45.56	36.63
38.5	33.90	57.54	90.90	83.04	46.10	62.72	65.19	44.18	35.43
39.0	33.91	56.59	89.34	83.14	46.38	62.78	64.16	42.72	34.11
39.5	34.11	55.73	87.21	83.28	46.69	62.72	63.12	41.31	32.83
40.0	34.21	54.77	85.03	83.30	46.90	62.68	62.03	39.88	31.69
40.5	34.24	54.10	83.15	83.43	47.19	62.52	60.70	38.49	30.59
41.0	34.22	53.40	81.15	83.35	47.28	62.38	59.52	37.05	29.39
41.5	34.65	52.65	79.21	82.96	47.38	62.27	58.19	35.39	28.24
42.0	36.19	51.71	77.44	82.81	47.45	62.04	56.78	33.91	27.14
42.5	37.99	51.11	75.48	82.54	47.66	61.74	55.27	32.54	25.99
43.0	39.51	50.61	73.68	82.33	47.77	61.25	53.77	31.13	24.85
43.5	40.92	49.95	71.87	81.81	47.84	60.93	52.46	29.67	23.72
44.0	42.21	49.55	70.17	81.22	47.94	60.39	51.03	28.32	22.65
44.5	43.04	49.52	68.47	80.90	48.02	59.90	49.55	27.01	21.60
45.0	43.79	49.40	66.89	80.47	47.92	59.25	48.13	25.67	20.59
45.5	44.77	49.01	65.35	79.78	47.80	58.79	46.79	24.35	19.59
46.0	45.95	48.92	63.88	78.86	47.76	58.15	45.46	23.05	18.61
46.5	46.72	48.77	62.43	78.08	47.82	57.46	43.83	21.86	17.69
47.0	47.26	48.47	60.92	77.44	47.55	56.77	42.41	20.72	16.76
47.5	47.57	48.03	59.66	76.54	47.38	55.85	41.10	19.63	15.88
48.0	47.92	47.73	58.42	75.30	47.30	54.93	39.53	18.49	14.97
48.5	48.08	47.45	57.17	74.26	47.18	54.07	38.03	17.44	14.01
49.0	48.02	47.10	55.79	73.44	46.86	53.15	36.70	16.44	13.22
49.5	47.84	46.58	54.83	72.32	46.50	52.12	35.24	15.43	12.35
50.0	47.67	46.14	53.77	70.94	46.32	50.80	33.61	14.40	11.48
50.5	47.23	45.78	52.75	69.68	46.06	49.70	32.21	13.49	10.62
51.0	47.03	45.41	51.72	68.54	45.56	48.57	30.82	12.58	9.89
51.5	46.60	44.88	50.78	67.39	45.22	47.26	29.45	11.67	9.12
52.0	45.89	44.42	49.85	66.14	44.74	45.97	28.05	10.83	8.34
52.5	45.01	43.98	49.15	64.79	44.19	44.68	26.66	10.01	7.63
53.0	44.06	43.39	48.36	63.30	43.66	43.47	25.38	9.21	6.90
53.5	42.91	42.54	47.51	61.94	43.17	42.13	24.09	8.44	6.18
54.0	41.97	41.67	46.58	60.45	42.74	40.79	22.76	7.72	5.46
54.5	41.02	40.88	45.73	59.14	42.17	39.51	21.48	7.06	4.74

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CANDELA TABULATION - (Cont.)

55.0	40.08	40.06	45.03	57.89	41.44	38.21	20.26	6.39	4.02
55.5	39.20	39.21	44.25	56.61	40.86	36.92	19.06	5.72	3.28
56.0	38.37	38.20	43.44	55.26	40.20	35.77	17.91	5.10	2.49
56.5	37.50	37.22	42.69	53.87	39.42	34.64	16.76	4.45	1.77
57.0	36.59	36.43	42.03	52.37	38.69	33.46	15.73	3.80	1.27
57.5	35.72	35.71	41.36	51.07	38.00	32.18	14.64	3.14	0.90
58.0	34.94	34.94	40.63	49.82	37.34	31.06	13.58	2.47	0.64
58.5	34.24	34.16	39.84	48.61	36.62	29.89	12.57	1.85	0.44
59.0	33.64	33.29	39.12	47.43	35.78	28.70	11.53	1.36	0.27
59.5	32.97	32.60	38.43	46.34	34.95	27.62	10.60	0.99	0.21
60.0	32.25	32.03	37.69	45.15	34.19	26.54	9.67	0.73	0.20
60.5	31.60	31.36	37.01	43.96	33.44	25.48	8.75	0.54	0.21
61.0	31.15	30.79	36.40	42.72	32.70	24.41	7.89	0.40	0.18
61.5	30.63	30.16	35.71	41.50	32.00	23.35	7.05	0.30	0.16
62.0	30.02	29.65	34.99	40.42	31.20	22.29	6.22	0.29	0.17
62.5	29.62	29.18	34.20	39.46	30.37	21.27	5.42	0.27	0.18
63.0	29.31	28.68	33.56	38.45	29.62	20.21	4.62	0.27	0.18
63.5	28.75	28.20	32.82	37.36	28.91	19.20	3.82	0.27	0.16
64.0	28.50	27.79	32.16	36.30	28.16	18.21	3.04	0.26	0.14
64.5	28.23	27.41	31.55	35.28	27.40	17.29	2.29	0.25	0.15
65.0	27.81	27.14	30.88	34.28	26.77	16.36	1.68	0.25	0.14
65.5	27.46	26.81	30.18	33.27	26.06	15.41	1.22	0.24	0.15
66.0	27.20	26.49	29.54	32.32	25.28	14.51	0.90	0.23	0.14
66.5	26.84	26.22	28.90	31.43	24.56	13.63	0.70	0.23	0.15
67.0	26.42	26.03	28.23	30.51	23.87	12.75	0.54	0.23	0.14
67.5	25.98	25.77	27.58	29.56	23.11	11.90	0.50	0.23	0.14
68.0	25.71	25.39	27.10	28.62	22.45	11.09	0.48	0.22	0.14
68.5	25.31	25.15	26.58	27.80	21.80	10.30	0.46	0.22	0.12
69.0	24.94	24.94	25.98	26.97	21.09	9.55	0.46	0.22	0.13
69.5	24.64	24.69	25.47	26.11	20.37	8.80	0.47	0.22	0.13
70.0	24.28	24.32	25.08	25.22	19.75	8.06	0.48	0.21	0.12
70.5	24.21	24.12	24.77	24.44	19.09	7.31	0.45	0.21	0.13
71.0	24.37	24.00	24.35	23.70	18.34	6.60	0.45	0.21	0.12
71.5	24.51	23.90	23.91	22.89	17.69	5.95	0.44	0.21	0.13
72.0	24.64	23.94	23.63	22.06	17.07	5.26	0.44	0.21	0.11
72.5	24.83	24.10	23.35	21.36	16.43	4.59	0.44	0.20	0.12
73.0	25.12	24.25	23.00	20.67	15.73	3.94	0.43	0.20	0.11
73.5	25.35	24.42	22.65	19.96	15.11	3.31	0.44	0.21	0.12
74.0	25.53	24.48	22.33	19.28	14.50	2.72	0.42	0.22	0.13
74.5	25.63	24.59	21.97	18.69	13.85	2.14	0.43	0.21	0.12
75.0	25.78	24.79	21.61	18.13	13.22	1.65	0.43	0.20	0.11
75.5	25.95	24.91	21.41	17.58	12.63	1.31	0.42	0.20	0.12
76.0	26.14	24.95	21.31	17.02	12.08	1.01	0.43	0.21	0.10
76.5	26.21	24.99	21.18	16.57	11.49	0.79	0.42	0.20	0.10
77.0	26.23	25.09	21.10	16.06	10.93	0.69	0.43	0.21	0.12
77.5	26.07	25.03	21.04	15.61	10.36	0.68	0.43	0.20	0.10
78.0	25.95	24.93	20.93	15.23	9.84	0.68	0.43	0.20	0.12
78.5	25.87	24.84	20.80	14.86	9.33	0.68	0.40	0.21	0.12
79.0	25.74	24.71	20.75	14.50	8.82	0.67	0.40	0.21	0.09
79.5	25.67	24.58	20.59	14.20	8.30	0.67	0.41	0.21	0.12
80.0	25.59	24.38	20.46	13.90	7.82	0.66	0.41	0.21	0.12
80.5	25.47	24.22	20.33	13.64	7.32	0.65	0.42	0.20	0.12
81.0	25.24	24.14	20.18	13.41	6.84	0.67	0.42	0.21	0.13
81.5	25.10	24.03	20.02	13.16	6.38	0.65	0.41	0.22	0.14
82.0	24.99	23.89	19.87	13.00	5.96	0.66	0.41	0.21	0.12
82.5	24.92	23.70	19.73	12.80	5.52	0.65	0.41	0.22	0.10

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CANDELA TABULATION - (Cont.)

83.0	24.68	23.48	19.59	12.66	5.09	0.66	0.40	0.21	0.12
83.5	24.55	23.28	19.40	12.45	4.65	0.65	0.40	0.21	0.12
84.0	24.52	23.15	19.23	12.22	4.21	0.65	0.40	0.23	0.15
84.5	24.35	23.01	19.02	12.04	3.81	0.67	0.40	0.23	0.16
85.0	24.15	22.90	18.77	11.91	3.41	0.66	0.41	0.23	0.15
85.5	23.94	22.71	18.59	11.76	2.98	0.65	0.41	0.23	0.14
86.0	23.83	22.50	18.44	11.53	2.52	0.64	0.41	0.23	0.11
86.5	23.76	22.35	18.29	11.37	2.05	0.66	0.40	0.22	0.15
87.0	23.57	22.10	18.08	11.22	1.67	0.65	0.39	0.21	0.13
87.5	23.35	22.00	17.93	11.03	1.40	0.65	0.41	0.21	0.19
88.0	23.22	21.89	17.80	10.84	1.11	0.65	0.43	0.23	0.17
88.5	23.17	21.78	17.65	10.68	0.86	0.66	0.41	0.25	0.10
89.0	23.00	21.57	17.47	10.57	0.66	0.66	0.41	0.22	0.15
89.5	22.79	21.40	17.25	10.41	0.65	0.66	0.43	0.23	0.17
90.0	22.67	21.33	17.16	10.27	0.67	0.66	0.45	0.25	0.19
90.5	22.59	21.25	17.10	10.12	0.73	0.67	0.44	0.26	0.17
91.0	22.59	21.06	16.97	10.00	0.79	0.69	0.43	0.26	0.13
91.5	22.49	20.97	16.76	9.86	0.85	0.70	0.43	0.25	0.15
92.0	22.32	20.92	16.66	9.72	0.94	0.69	0.46	0.26	0.16
92.5	22.19	20.76	16.59	9.59	1.05	0.70	0.48	0.28	0.18
93.0	22.17	20.62	16.54	9.47	1.20	0.71	0.48	0.27	0.18
93.5	22.08	20.60	16.44	9.33	1.38	0.73	0.46	0.28	0.16
94.0	21.93	20.45	16.36	9.22	1.54	0.74	0.47	0.28	0.16
94.5	21.91	20.38	16.31	9.09	1.72	0.74	0.50	0.29	0.16
95.0	21.91	20.36	16.26	8.96	1.92	0.74	0.51	0.30	0.17
95.5	21.83	20.35	16.20	8.85	2.12	0.74	0.51	0.31	0.15
96.0	21.70	20.21	16.14	8.74	2.32	0.75	0.52	0.30	0.16
96.5	21.61	20.18	16.11	8.63	2.51	0.77	0.53	0.30	0.15
97.0	21.54	20.23	16.11	8.53	2.72	0.77	0.53	0.30	0.15
97.5	21.60	20.22	16.05	8.44	2.93	0.78	0.52	0.31	0.16
98.0	21.63	20.19	16.01	8.36	3.13	0.79	0.53	0.32	0.17
98.5	21.60	20.16	16.04	8.25	3.34	0.79	0.54	0.31	0.17
99.0	21.53	20.15	16.07	8.16	3.57	0.80	0.55	0.33	0.17
99.5	21.45	20.18	16.07	8.10	3.78	0.81	0.55	0.34	0.18
100.0	21.46	20.15	16.01	8.10	3.98	0.81	0.57	0.33	0.18
100.5	21.50	20.18	15.99	8.15	4.22	0.83	0.57	0.33	0.17
101.0	21.60	20.19	15.98	8.23	4.44	0.84	0.58	0.32	0.19
101.5	21.68	20.25	15.97	8.41	4.65	0.86	0.59	0.32	0.18
102.0	21.71	20.35	15.88	8.63	4.89	0.85	0.58	0.33	0.19
102.5	21.77	20.39	15.88	8.84	5.13	0.86	0.58	0.32	0.19
103.0	21.79	20.45	15.86	9.05	5.36	0.89	0.59	0.34	0.19
103.5	21.82	20.48	15.82	9.27	5.57	0.97	0.60	0.34	0.19
104.0	21.86	20.48	15.79	9.52	5.83	1.03	0.60	0.34	0.19
104.5	21.90	20.49	15.75	9.77	6.09	1.11	0.60	0.33	0.19
105.0	21.95	20.48	15.66	10.00	6.37	1.25	0.60	0.33	0.20
105.5	22.13	20.50	15.58	10.23	6.61	1.41	0.60	0.33	0.19
106.0	22.22	20.54	15.54	10.45	6.85	1.57	0.61	0.34	0.20
106.5	22.25	20.57	15.46	10.70	7.09	1.77	0.60	0.35	0.20
107.0	22.19	20.57	15.40	10.92	7.38	1.97	0.61	0.34	0.20
107.5	22.28	20.46	15.35	11.14	7.67	2.18	0.61	0.34	0.20
108.0	22.35	20.42	15.29	11.36	7.97	2.39	0.61	0.34	0.20
108.5	22.27	20.40	15.20	11.62	8.24	2.61	0.60	0.34	0.20
109.0	22.26	20.45	15.17	11.88	8.55	2.84	0.61	0.35	0.21
109.5	22.37	20.37	15.23	12.09	8.86	3.07	0.61	0.36	0.20
110.0	22.28	20.34	15.28	12.33	9.15	3.33	0.61	0.34	0.20
110.5	22.21	20.37	15.39	12.56	9.43	3.55	0.61	0.34	0.20

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CANDELA TABULATION - (Cont.)

111.0	22.17	20.32	15.56	12.83	9.74	3.80	0.60	0.35	0.21
111.5	22.22	20.20	15.82	13.04	10.10	4.04	0.60	0.35	0.21
112.0	22.15	20.14	16.14	13.25	10.42	4.28	0.63	0.36	0.20
112.5	22.05	20.11	16.38	13.51	10.76	4.54	0.62	0.35	0.21
113.0	22.02	20.07	16.63	13.74	11.11	4.79	0.63	0.35	0.21
113.5	22.14	20.02	16.87	13.97	11.47	5.07	0.66	0.35	0.20
114.0	22.13	19.86	17.13	14.21	11.81	5.34	0.70	0.35	0.21
114.5	21.99	19.91	17.35	14.49	12.17	5.59	0.78	0.36	0.21
115.0	21.91	19.95	17.71	14.74	12.53	5.88	0.90	0.36	0.21
115.5	21.91	19.96	17.99	14.96	12.93	6.15	1.04	0.37	0.21
116.0	21.70	20.11	18.20	15.30	13.29	6.45	1.19	0.36	0.23
116.5	21.65	20.40	18.41	15.57	13.70	6.77	1.35	0.35	0.22
117.0	21.76	20.66	18.73	15.81	14.13	7.10	1.54	0.36	0.22
117.5	21.77	20.91	18.97	16.10	14.55	7.39	1.74	0.37	0.23
118.0	21.85	21.27	19.18	16.44	14.92	7.72	1.94	0.37	0.23
118.5	22.16	21.63	19.32	16.73	15.31	8.04	2.16	0.37	0.25
119.0	22.44	21.84	19.57	16.95	15.82	8.38	2.35	0.39	0.24
119.5	22.76	22.17	19.76	17.34	16.23	8.75	2.54	0.43	0.24
120.0	23.11	22.62	19.94	17.66	16.67	9.13	2.75	0.45	0.25
120.5	23.45	22.90	20.11	17.94	17.11	9.48	2.98	0.51	0.26
121.0	23.70	23.14	20.31	18.19	17.59	9.82	3.21	0.60	0.29
121.5	24.02	23.49	20.45	18.62	18.02	10.23	3.41	0.71	0.36
122.0	24.36	23.90	20.58	18.90	18.55	10.66	3.65	0.86	0.46
122.5	24.72	24.16	20.69	19.14	19.06	11.04	3.89	1.04	0.58
123.0	25.12	24.43	20.86	19.56	19.53	11.43	4.14	1.24	0.74
123.5	25.61	24.67	20.99	19.95	19.98	11.89	4.36	1.41	0.96
124.0	25.96	24.93	21.10	20.24	20.52	12.34	4.62	1.59	1.22
124.5	26.29	25.12	21.26	20.55	21.11	12.78	4.90	1.77	1.46
125.0	26.60	25.26	21.46	20.98	21.65	13.25	5.13	1.95	1.69
125.5	26.79	25.40	21.56	21.30	22.21	13.68	5.41	2.13	1.92
126.0	27.01	25.62	21.63	21.67	22.81	14.22	5.70	2.33	2.16
126.5	27.23	25.83	21.77	22.09	23.37	14.76	5.98	2.52	2.38
127.0	27.42	25.99	21.87	22.46	23.98	15.25	6.25	2.73	2.59
127.5	27.59	26.07	21.93	22.77	24.52	15.79	6.52	2.91	2.84
128.0	27.82	26.17	22.06	23.17	25.13	16.33	6.81	3.12	3.07
128.5	28.02	26.30	22.23	23.55	25.77	16.93	7.12	3.34	3.29
129.0	28.18	26.49	22.46	23.91	26.40	17.51	7.44	3.55	3.55
129.5	28.28	26.58	22.82	24.30	27.01	18.10	7.75	3.78	3.82
130.0	28.37	26.66	23.21	24.69	27.84	18.79	8.12	4.01	4.06
130.5	28.44	26.69	23.61	25.09	28.54	19.52	8.47	4.26	4.30
131.0	28.49	26.84	24.06	25.45	29.24	20.20	8.82	4.51	4.57
131.5	28.66	26.98	24.49	25.98	29.93	20.89	9.17	4.77	4.86
132.0	28.70	27.04	24.94	26.44	30.69	21.59	9.56	5.05	5.13
132.5	28.64	26.99	25.40	26.96	31.41	22.29	9.98	5.33	5.40
133.0	28.74	27.02	25.83	27.38	32.21	23.09	10.46	5.62	5.72
133.5	28.82	27.12	26.35	27.85	33.06	23.98	10.95	5.92	6.01
134.0	28.70	27.12	26.79	28.26	33.98	24.83	11.46	6.25	6.31
134.5	28.80	27.13	27.22	28.74	34.80	25.76	11.98	6.56	6.60
135.0	28.90	27.25	27.77	29.26	35.58	26.66	12.51	6.87	6.95
135.5	28.81	27.34	28.24	29.89	36.40	27.55	13.06	7.19	7.28
136.0	28.80	27.51	28.63	30.46	37.24	28.39	13.68	7.53	7.60
136.5	28.90	27.90	29.04	31.05	37.90	29.40	14.30	7.90	7.92
137.0	28.88	28.37	29.46	31.72	38.69	30.47	14.95	8.29	8.25
137.5	28.85	28.98	29.82	32.42	39.54	31.52	15.60	8.67	8.60
138.0	28.75	29.63	30.26	33.00	40.28	32.61	16.26	9.05	8.95
138.5	28.81	30.43	30.78	33.69	40.91	33.75	16.98	9.49	9.35

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CANDELA TABULATION - (Cont.)

139.0	29.00	31.15	31.20	34.52	41.63	34.85	17.82	9.98	9.73
139.5	29.44	31.86	31.61	35.37	42.43	35.90	18.65	10.51	10.18
140.0	30.10	32.64	32.13	36.24	43.14	36.96	19.46	11.08	10.58
140.5	31.08	33.25	32.73	37.03	43.77	38.25	20.31	11.66	11.05
141.0	31.94	33.88	33.18	37.88	44.49	39.44	21.25	12.33	11.50
141.5	32.72	34.57	33.73	38.85	45.08	40.71	22.27	13.00	12.07
142.0	33.50	35.33	34.23	39.77	45.64	41.92	23.30	13.67	12.72
142.5	34.55	35.81	34.66	40.68	46.31	43.15	24.38	14.34	13.46
143.0	35.35	36.36	35.17	41.84	46.91	44.46	25.64	15.04	14.14
143.5	36.13	36.88	35.69	42.93	47.51	45.65	26.94	15.83	14.83
144.0	36.79	37.44	36.16	44.15	48.12	46.87	28.23	16.66	15.54
144.5	37.47	37.86	36.81	45.19	48.69	48.23	29.66	17.45	16.24
145.0	38.03	38.24	37.48	46.65	49.21	49.45	31.21	18.24	17.06
145.5	38.67	38.75	38.04	48.03	49.87	50.74	32.88	19.17	17.95
146.0	39.18	39.24	38.76	49.29	50.41	52.10	34.61	20.18	18.72
146.5	39.69	39.66	39.37	50.72	50.81	53.55	36.40	21.14	19.55
147.0	40.13	40.28	40.08	52.38	51.06	54.89	38.37	22.15	20.56
147.5	40.65	40.87	40.97	53.90	51.41	56.19	40.39	23.38	21.56
148.0	41.23	41.29	41.83	55.41	51.79	57.51	42.67	24.54	22.58
148.5	41.63	41.67	42.57	57.00	52.26	58.83	44.87	25.80	23.54
149.0	42.02	42.02	43.52	58.74	52.48	60.12	47.18	27.21	24.69
149.5	42.33	42.49	44.51	60.43	52.83	61.47	49.51	28.70	25.96
150.0	42.76	43.04	45.45	61.81	53.11	62.59	52.06	30.19	27.30
150.5	43.27	43.44	46.26	63.49	53.44	63.80	54.58	31.95	28.52
151.0	43.79	43.90	47.40	65.17	53.69	65.14	56.84	33.94	30.08
151.5	44.15	44.23	48.68	66.56	54.27	66.40	59.48	35.92	31.79
152.0	44.33	44.75	49.96	68.05	54.56	67.50	62.10	37.88	33.48
152.5	44.50	45.31	51.11	69.51	54.84	68.84	64.54	40.21	35.22
153.0	44.89	45.81	52.20	70.83	55.27	70.15	66.90	42.89	37.01
153.5	45.49	46.68	53.39	72.21	55.52	71.13	69.26	45.60	39.09
154.0	45.76	47.51	54.69	73.24	55.62	72.09	71.16	48.34	41.60
154.5	46.06	48.25	55.99	74.21	55.83	73.09	73.15	51.22	43.91
155.0	46.84	49.12	57.20	74.94	56.09	74.05	75.23	54.49	46.35
155.5	47.27	50.00	58.48	75.53	56.28	74.81	77.18	57.89	49.08
156.0	47.74	50.89	59.73	75.98	56.42	75.49	78.95	61.26	52.16
156.5	48.54	52.04	61.03	76.30	56.63	76.28	80.49	64.90	55.37
157.0	49.25	53.08	62.79	76.24	56.77	76.90	82.40	68.77	58.52
157.5	49.87	54.08	64.76	76.51	56.85	77.46	84.10	72.34	62.07
158.0	50.91	55.19	67.00	76.63	57.03	77.86	85.67	75.83	66.02
158.5	51.82	56.53	69.55	76.78	57.16	78.14	87.15	78.97	70.08
159.0	52.58	57.76	72.68	76.47	57.27	78.71	88.61	82.11	74.01
159.5	53.84	58.79	76.07	76.35	57.40	79.21	89.79	85.14	78.05
160.0	54.67	60.03	79.66	75.94	57.56	79.57	91.03	87.95	81.78
160.5	55.63	61.30	83.19	75.49	57.58	79.84	92.30	90.35	85.49
161.0	57.11	62.19	86.53	75.15	57.46	79.87	92.76	92.40	88.89
161.5	58.00	63.57	89.46	74.87	57.41	79.93	93.30	94.67	91.91
162.0	59.03	65.43	91.97	74.41	57.55	79.80	93.91	95.97	94.73
162.5	60.27	67.25	93.60	73.84	57.57	79.81	94.30	96.72	97.30
163.0	61.29	69.50	94.68	73.56	57.43	79.61	94.30	97.29	98.49
163.5	62.28	72.46	95.28	72.84	57.40	79.28	93.92	97.50	98.27
164.0	64.03	75.82	94.77	72.07	57.59	79.00	93.76	97.29	98.00
164.5	66.03	79.64	94.16	71.60	57.44	78.90	93.43	96.60	97.70
165.0	68.43	83.58	93.40	71.22	57.19	78.43	92.67	95.91	96.44
165.5	71.57	86.91	91.76	70.22	57.33	77.72	92.17	95.61	94.67
166.0	75.80	89.07	89.65	69.57	57.30	77.18	91.35	95.03	93.48
166.5	80.04	90.83	87.63	69.08	56.93	77.05	90.28	94.33	92.81

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CANDELA TABULATION - (Cont.)

167.0	83.79	91.49	85.80	68.23	56.96	76.34	89.00	93.66	92.20
167.5	86.56	90.96	83.48	67.03	56.97	75.51	87.90	92.92	91.93
168.0	88.09	89.77	81.30	65.85	56.80	74.92	86.64	91.88	91.43
168.5	88.26	87.90	79.19	64.81	56.39	74.07	85.26	91.36	90.48
169.0	87.48	85.63	76.96	63.68	56.27	73.13	83.85	90.23	89.14
169.5	86.17	83.09	74.68	62.11	55.89	72.29	82.43	88.45	87.83
170.0	84.07	80.23	72.66	60.64	55.05	71.09	80.80	86.84	86.71
170.5	81.38	77.39	70.39	59.28	54.51	69.72	79.30	85.46	84.98
171.0	78.52	74.73	68.19	57.98	54.00	68.34	77.89	83.70	82.54
171.5	75.73	71.98	66.36	56.51	53.16	67.47	76.31	81.55	80.37
172.0	72.93	69.24	64.26	55.03	52.40	66.08	74.53	79.44	78.53
172.5	70.08	66.72	62.02	53.44	51.68	64.57	72.90	77.63	76.59
173.0	67.28	64.29	60.06	52.13	51.00	63.37	71.19	75.59	73.99
173.5	64.41	61.48	57.92	50.68	50.41	62.05	69.23	73.26	72.00
174.0	62.12	58.98	55.72	49.10	49.61	60.75	67.58	71.34	70.08
174.5	59.64	56.51	53.57	47.82	48.87	59.26	65.74	69.20	67.69
175.0	57.10	54.18	51.67	46.46	48.22	57.97	63.63	66.90	65.33
175.5	54.27	51.68	49.54	45.14	47.47	56.51	61.52	64.81	63.28
176.0	51.79	49.28	47.46	44.07	46.66	54.87	59.64	62.59	61.04
176.5	49.40	46.88	45.35	43.15	45.81	53.23	57.65	60.13	58.37
177.0	47.19	44.58	43.30	42.50	45.00	51.71	55.47	57.73	56.00
177.5	44.90	42.24	41.74	41.93	44.19	49.99	53.39	55.49	53.64
178.0	42.72	40.80	40.94	41.40	43.36	48.15	51.20	53.05	51.40
178.5	40.57	40.16	40.41	41.09	42.72	46.16	49.02	50.57	48.78
179.0	39.33	40.11	40.44	41.01	42.28	44.54	46.39	47.99	45.60
179.5	40.09	41.26	40.89	41.25	42.04	43.06	44.06	45.26	42.22
180.0	42.05	42.05	42.05	42.05	42.05	42.05	42.05	42.05	42.05

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7.05	N.A.	2.20
0-30	33.33	N.A.	10.30
0-40	73.13	N.A.	22.60
0-60	142.90	N.A.	44.20
0-80	174.46	N.A.	54.00
0-90	184.09	N.A.	57.00
10-90	183.95	N.A.	56.90
20-40	66.08	N.A.	20.50
20-50	105.49	N.A.	32.70
40-70	88.80	N.A.	27.50
60-80	31.57	N.A.	9.80
70-80	12.54	N.A.	3.90
80-90	9.63	N.A.	3.00
90-110	16.99	N.A.	5.30
90-120	27.44	N.A.	8.50
90-130	41.29	N.A.	12.80
90-150	82.61	N.A.	25.60
90-180	139.00	N.A.	43.00
110-180	122.01	N.A.	37.80
0-180	323.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.14
10-20	6.90
20-30	26.28
30-40	39.80
40-50	39.41
50-60	30.36
60-70	19.03
70-80	12.54
80-90	9.63
90-100	8.25
100-110	8.73
110-120	10.45
120-130	13.85
130-140	17.89
140-150	23.43
150-160	27.89
160-170	22.56
170-180	5.94

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CER-5865.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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63	57	0
1	98	94	89	85	91	87	83	80	75	72	70	64	62	60	54	52	51	46	0
2	89	81	75	69	83	76	70	65	65	61	57	56	52	49	47	44	42	38	0
3	81	71	63	57	75	66	59	53	57	52	47	49	44	41	41	38	35	31	0
4	74	62	54	47	68	58	50	45	50	44	39	43	38	34	36	32	30	26	0
5	67	55	46	40	62	51	44	38	44	38	33	38	33	29	32	28	25	22	0
6	62	49	40	34	57	46	38	32	40	33	29	34	29	25	29	25	22	19	0
7	57	44	35	29	52	41	33	28	35	29	25	30	25	22	26	22	19	16	0
8	52	39	31	25	48	37	29	24	32	26	21	27	22	19	23	19	16	14	0
9	48	36	28	22	45	33	26	21	29	23	19	25	20	17	21	17	14	12	0
10	45	32	25	20	42	30	23	19	26	21	17	23	18	15	19	15	13	11	0

IES INDOOR REPORT
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UGR TABLE - CORRECTED

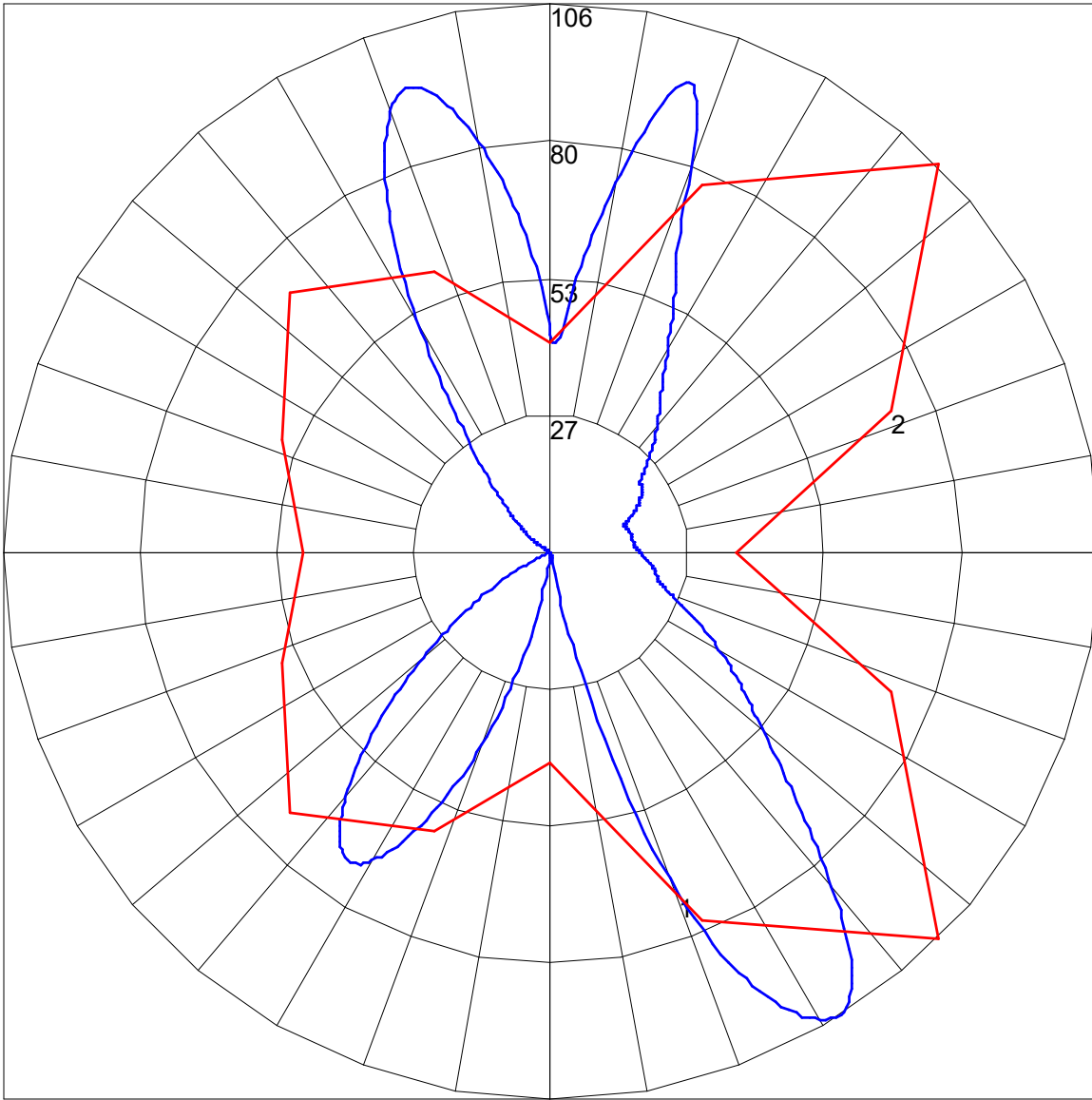
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	10.4	11.4	11.3	12.3	13.5	10.8	11.8	11.7	12.7	13.9
	3H	12.2	13.0	13.1	13.9	15.1	11.7	12.6	12.6	13.5	14.7
	4H	13.2	14.0	14.1	14.9	16.1	11.9	12.7	12.8	13.6	14.8
	6H	14.4	15.1	15.3	16.1	17.3	12.0	12.8	12.9	13.7	14.9
	8H	15.0	15.7	15.9	16.6	17.8	12.0	12.7	12.9	13.7	14.9
	12H	15.5	16.2	16.4	17.1	18.4	12.0	12.7	12.9	13.6	14.9
4H	2H	10.9	11.7	11.8	12.7	13.9	10.9	11.8	11.8	12.7	13.9
	3H	12.8	13.5	13.7	14.5	15.7	12.0	12.6	12.9	13.6	14.8
	4H	14.0	14.6	15.0	15.6	16.8	12.3	12.9	13.2	13.8	15.1
	6H	15.4	15.9	16.3	16.9	18.2	12.4	13.0	13.4	14.0	15.2
	8H	16.1	16.6	17.0	17.6	18.8	12.5	13.0	13.5	14.0	15.2
	12H	16.7	17.2	17.7	18.2	19.4	12.5	13.0	13.5	14.0	15.2
8H	4H	14.2	14.8	15.2	15.7	17.0	12.4	12.9	13.4	13.9	15.1
	6H	15.8	16.2	16.8	17.3	18.5	12.7	13.2	13.7	14.2	15.4
	8H	16.6	17.0	17.6	18.0	19.3	12.9	13.3	13.9	14.3	15.5
	12H	17.5	17.8	18.5	18.8	20.1	13.0	13.3	13.9	14.3	15.6
12H	4H	14.2	14.7	15.2	15.7	17.0	12.4	12.9	13.4	13.9	15.2
	6H	15.9	16.3	16.9	17.2	18.5	12.9	13.2	13.9	14.2	15.5
	8H	16.7	17.1	17.7	18.1	19.4	13.0	13.4	14.0	14.4	15.7

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 106.3 Located At Horizontal Angle = 45, Vertical Angle = 32
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32) (Through Max. Cd.)