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IES INDOOR REPORT
PHOTOMETRIC FILENAME : CER-6400-LED1-0700.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 13267120.07
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 3/18/2020
[MANUFAC] JUSTICE DESIGN GROUP L L C
[LUMCAT] CER-6400
[LUMINAIRE] White decorative ceramic housing
[LAMP] White LED array
[BALLAST] Integrated
[OTHER] 24.4 C, 120.054 V, 0.0637721 A, 7.28759 W, 0.951866 PF, 59.989
[MORE] 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	153
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	21
Total Luminaire Watts	7.28759
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.92
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.29 ft (Diameter)
Luminous Width (90-270)	0.29 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6740	6740	6740
55	6257	6257	6257
65	5654	5654	5654
75	5771	5771	5771
85	4435	4435	4435

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CANDELA TABULATION

	<u>0</u>
0.0	93.230
0.5	93.170
1.0	93.160
1.5	93.210
2.0	93.260
2.5	93.370
3.0	93.500
3.5	93.660
4.0	93.870
4.5	94.190
5.0	94.490
5.5	94.910
6.0	95.390
6.5	95.910
7.0	96.480
7.5	97.080
8.0	97.720
8.5	98.340
9.0	98.950
9.5	99.450
10.0	99.680
10.5	99.620
11.0	99.390
11.5	98.880
12.0	98.150
12.5	97.270
13.0	96.320
13.5	95.240
14.0	93.980
14.5	92.600
15.0	91.080
15.5	89.450
16.0	87.760
16.5	85.950
17.0	84.070
17.5	82.130
18.0	80.170
18.5	78.160
19.0	76.090
19.5	74.020
20.0	71.870
20.5	69.730
21.0	67.620
21.5	65.510
22.0	63.480
22.5	61.470
23.0	59.490
23.5	57.560
24.0	55.730
24.5	53.890
25.0	52.290
25.5	50.830
26.0	49.550
26.5	48.440

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CANDELA TABULATION - (Cont.)

27.0	47.460
27.5	46.650
28.0	45.890
28.5	45.180
29.0	44.480
29.5	43.800
30.0	43.130
30.5	42.490
31.0	41.860
31.5	41.240
32.0	40.650
32.5	40.090
33.0	39.530
33.5	39.000
34.0	38.460
34.5	37.970
35.0	37.480
35.5	36.990
36.0	36.520
36.5	36.070
37.0	35.630
37.5	35.180
38.0	34.760
38.5	34.360
39.0	33.950
39.5	33.570
40.0	33.200
40.5	32.820
41.0	32.470
41.5	32.110
42.0	31.750
42.5	31.410
43.0	31.060
43.5	30.720
44.0	30.380
44.5	30.030
45.0	29.680
45.5	29.330
46.0	28.970
46.5	28.630
47.0	28.260
47.5	27.900
48.0	27.530
48.5	27.180
49.0	26.820
49.5	26.450
50.0	26.100
50.5	25.720
51.0	25.360
51.5	24.990
52.0	24.620
52.5	24.240
53.0	23.870
53.5	23.480
54.0	23.110
54.5	22.730

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CANDELA TABULATION - (Cont.)

55.0	22.350
55.5	21.980
56.0	21.610
56.5	21.240
57.0	20.870
57.5	20.500
58.0	20.120
58.5	19.750
59.0	19.370
59.5	18.980
60.0	18.620
60.5	18.250
61.0	17.870
61.5	17.500
62.0	17.120
62.5	16.750
63.0	16.370
63.5	16.000
64.0	15.630
64.5	15.250
65.0	14.880
65.5	14.510
66.0	14.150
66.5	13.800
67.0	13.450
67.5	13.130
68.0	12.820
68.5	12.520
69.0	12.240
69.5	11.990
70.0	11.730
70.5	11.490
71.0	11.270
71.5	11.030
72.0	10.810
72.5	10.580
73.0	10.350
73.5	10.110
74.0	9.852
74.5	9.580
75.0	9.302
75.5	9.006
76.0	8.698
76.5	8.378
77.0	8.053
77.5	7.724
78.0	7.381
78.5	7.032
79.0	6.684
79.5	6.339
80.0	5.990
80.5	5.635
81.0	5.282
81.5	4.925
82.0	4.568
82.5	4.208

CANDELA TABULATION - (Cont.)

83.0	3.845
83.5	3.492
84.0	3.124
84.5	2.762
85.0	2.407
85.5	2.050
86.0	1.720
86.5	1.402
87.0	1.117
87.5	0.848
88.0	0.614
88.5	0.427
89.0	0.289
89.5	0.190
90.0	0.000
90.5	0.000
91.0	0.000
91.5	0.000
92.0	0.000
92.5	0.000
93.0	0.000
93.5	0.000
94.0	0.000
94.5	0.000
95.0	0.000
95.5	0.000
96.0	0.000
96.5	0.000
97.0	0.000
97.5	0.000
98.0	0.000
98.5	0.000
99.0	0.000
99.5	0.000
100.0	0.000
100.5	0.000
101.0	0.000
101.5	0.000
102.0	0.000
102.5	0.000
103.0	0.000
103.5	0.000
104.0	0.000
104.5	0.000
105.0	0.000
105.5	0.000
106.0	0.000
106.5	0.000
107.0	0.000
107.5	0.000
108.0	0.000
108.5	0.000
109.0	0.000
109.5	0.000
110.0	0.000
110.5	0.000

CANDELA TABULATION - (Cont.)

111.0	0.000
111.5	0.000
112.0	0.000
112.5	0.000
113.0	0.000
113.5	0.000
114.0	0.000
114.5	0.000
115.0	0.000
115.5	0.000
116.0	0.000
116.5	0.000
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133.5	0.000
134.0	0.000
134.5	0.000
135.0	0.000
135.5	0.000
136.0	0.000
136.5	0.000
137.0	0.000
137.5	0.000
138.0	0.000
138.5	0.000

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139.0	0.000
139.5	0.000
140.0	0.000
140.5	0.000
141.0	0.000
141.5	0.000
142.0	0.000
142.5	0.000
143.0	0.000
143.5	0.000
144.0	0.000
144.5	0.000
145.0	0.000
145.5	0.000
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
148.0	0.000
148.5	0.000
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149.5	0.000
150.0	0.000
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151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
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155.0	0.000
155.5	0.000
156.0	0.000
156.5	0.000
157.0	0.000
157.5	0.000
158.0	0.000
158.5	0.000
159.0	0.000
159.5	0.000
160.0	0.000
160.5	0.000
161.0	0.000
161.5	0.000
162.0	0.000
162.5	0.000
163.0	0.000
163.5	0.000
164.0	0.000
164.5	0.000
165.0	0.000
165.5	0.000
166.0	0.000
166.5	0.000

CANDELA TABULATION - (Cont.)

167.0	0.000
167.5	0.000
168.0	0.000
168.5	0.000
169.0	0.000
169.5	0.000
170.0	0.000
170.5	0.000
171.0	0.000
171.5	0.000
172.0	0.000
172.5	0.000
173.0	0.000
173.5	0.000
174.0	0.000
174.5	0.000
175.0	0.000
175.5	0.000
176.0	0.000
176.5	0.000
177.0	0.000
177.5	0.000
178.0	0.000
178.5	0.000
179.0	0.000
179.5	0.000
180.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	34.08	N.A.	22.30
0-30	58.81	N.A.	38.60
0-40	82.36	N.A.	54.00
0-60	125.24	N.A.	82.10
0-80	149.69	N.A.	98.20
0-90	152.51	N.A.	100.00
10-90	143.30	N.A.	94.00
20-40	48.28	N.A.	31.70
20-50	71.17	N.A.	46.70
40-70	57.70	N.A.	37.80
60-80	24.44	N.A.	16.00
70-80	9.63	N.A.	6.30
80-90	2.82	N.A.	1.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	152.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	9.21
10-20	24.87
20-30	24.73
30-40	23.55
40-50	22.89
50-60	19.99
60-70	14.81
70-80	9.63
80-90	2.82
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49	
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44	
7	69	57	49	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	39	48	42	38	37	
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31	

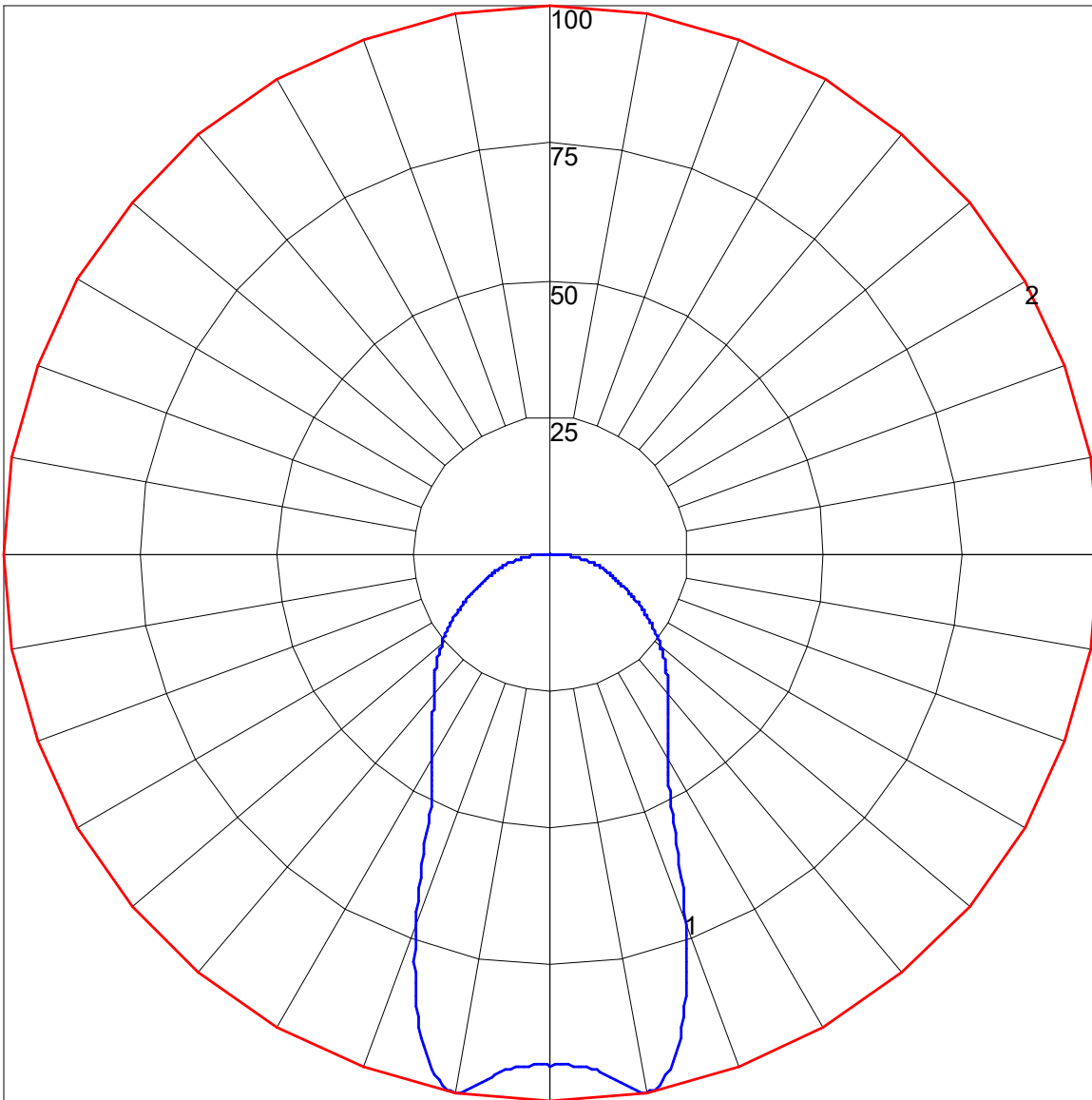
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UGR TABLE - CORRECTED

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	17.1	18.6	17.4	18.9	19.2	17.1	18.6	17.4	18.9	19.2
	3H	18.8	20.2	19.2	20.5	20.9	18.8	20.2	19.2	20.5	20.9
	4H	19.7	21.0	20.1	21.3	21.7	19.7	21.0	20.1	21.3	21.7
	6H	20.3	21.5	20.8	21.9	22.3	20.3	21.5	20.8	21.9	22.3
	8H	20.6	21.7	21.0	22.1	22.5	20.6	21.7	21.0	22.1	22.5
	12H	20.7	21.8	21.1	22.2	22.6	20.7	21.8	21.1	22.2	22.6
4H	2H	17.6	18.9	18.0	19.3	19.7	17.6	18.9	18.0	19.3	19.7
	3H	19.7	20.8	20.1	21.2	21.6	19.7	20.8	20.1	21.2	21.6
	4H	20.7	21.7	21.1	22.1	22.5	20.7	21.7	21.1	22.1	22.5
	6H	21.5	22.4	22.0	22.8	23.3	21.5	22.4	22.0	22.8	23.3
	8H	21.8	22.6	22.2	23.0	23.5	21.8	22.6	22.2	23.0	23.5
	12H	22.0	22.7	22.4	23.2	23.6	22.0	22.7	22.4	23.2	23.6
8H	4H	21.0	21.9	21.5	22.3	22.8	21.0	21.9	21.5	22.3	22.8
	6H	22.0	22.7	22.5	23.2	23.7	22.0	22.7	22.5	23.2	23.7
	8H	22.4	23.0	22.9	23.5	24.0	22.4	23.0	22.9	23.5	24.0
	12H	22.6	23.2	23.2	23.7	24.2	22.6	23.2	23.2	23.7	24.2
12H	4H	21.1	21.8	21.6	22.3	22.8	21.1	21.8	21.6	22.3	22.8
	6H	22.1	22.7	22.7	23.2	23.7	22.1	22.7	22.7	23.2	23.7
	8H	22.5	23.1	23.0	23.6	24.1	22.5	23.1	23.0	23.6	24.1

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 99.68 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)