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IES INDOOR REPORT
PHOTOMETRIC FILENAME : CER-6420-LED1-0700.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 13267120.09
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 3/18/2020
[MANUFAC] JUSTICE DESIGN GROUP L L C
[LUMCAT] CER-6420
[LUMINAIRE] White decorative ceramic housing
[LAMP] White LED array
[BALLAST] Integrated
[OTHER] 24.6 C, 120.064 V, 0.0669313 A, 7.67044 W, 0.954507 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	459
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	7.67044
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.58
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.85 ft (Diameter)
Luminous Width (90-270)	0.85 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	3640	3640	3640
55	2692	2692	2692
65	1464	1464	1464
75	1141	1141	1141
85	1101	1101	1101

CANDELA TABULATION

	<u>0</u>
0.0	154.60
0.5	154.60
1.0	154.60
1.5	154.70
2.0	154.70
2.5	154.70
3.0	154.80
3.5	154.90
4.0	154.90
4.5	155.00
5.0	155.00
5.5	155.10
6.0	155.20
6.5	155.30
7.0	155.40
7.5	155.50
8.0	155.60
8.5	155.80
9.0	155.90
9.5	156.10
10.0	156.20
10.5	156.40
11.0	156.50
11.5	156.70
12.0	156.90
12.5	157.10
13.0	157.20
13.5	157.40
14.0	157.50
14.5	157.70
15.0	157.80
15.5	157.90
16.0	158.00
16.5	158.10
17.0	158.10
17.5	158.20
18.0	158.20
18.5	158.20
19.0	158.10
19.5	158.00
20.0	157.90
20.5	157.80
21.0	157.60
21.5	157.40
22.0	157.20
22.5	156.90
23.0	156.60
23.5	156.30
24.0	156.00
24.5	155.70
25.0	155.30
25.5	155.00
26.0	154.70
26.5	154.30

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CANDELA TABULATION - (Cont.)

27.0	154.00
27.5	153.60
28.0	153.30
28.5	153.10
29.0	152.80
29.5	152.60
30.0	152.40
30.5	152.20
31.0	151.90
31.5	151.70
32.0	151.40
32.5	151.10
33.0	150.80
33.5	150.40
34.0	150.00
34.5	149.60
35.0	149.20
35.5	148.70
36.0	148.20
36.5	147.70
37.0	147.10
37.5	146.50
38.0	145.80
38.5	145.20
39.0	144.60
39.5	143.90
40.0	143.30
40.5	142.80
41.0	142.20
41.5	141.60
42.0	141.00
42.5	140.40
43.0	139.80
43.5	139.20
44.0	138.50
44.5	137.80
45.0	137.10
45.5	136.20
46.0	135.20
46.5	133.80
47.0	132.00
47.5	129.90
48.0	127.40
48.5	124.70
49.0	121.70
49.5	118.40
50.0	115.00
50.5	111.50
51.0	107.90
51.5	104.50
52.0	101.00
52.5	97.66
53.0	94.41
53.5	91.24
54.0	88.17
54.5	85.19

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CANDELA TABULATION - (Cont.)

55.0	82.26
55.5	79.35
56.0	76.44
56.5	73.55
57.0	70.64
57.5	67.75
58.0	64.85
58.5	61.97
59.0	59.11
59.5	56.28
60.0	53.48
60.5	50.71
61.0	47.98
61.5	45.37
62.0	42.92
62.5	40.73
63.0	38.83
63.5	37.12
64.0	35.53
64.5	34.14
65.0	32.95
65.5	31.89
66.0	30.86
66.5	29.85
67.0	28.85
67.5	27.89
68.0	26.92
68.5	25.99
69.0	25.09
69.5	24.19
70.0	23.33
70.5	22.48
71.0	21.65
71.5	20.84
72.0	20.06
72.5	19.29
73.0	18.54
73.5	17.82
74.0	17.10
74.5	16.41
75.0	15.73
75.5	15.07
76.0	14.43
76.5	13.80
77.0	13.20
77.5	12.61
78.0	12.02
78.5	11.46
79.0	10.91
79.5	10.37
80.0	9.85
80.5	9.34
81.0	8.83
81.5	8.35
82.0	7.87
82.5	7.39

CANDELA TABULATION - (Cont.)

83.0	6.93
83.5	6.47
84.0	6.01
84.5	5.56
85.0	5.11
85.5	4.67
86.0	4.21
86.5	3.75
87.0	3.25
87.5	2.69
88.0	2.06
88.5	1.45
89.0	0.92
89.5	0.50
90.0	0.00
90.5	0.00
91.0	0.00
91.5	0.00
92.0	0.00
92.5	0.00
93.0	0.00
93.5	0.00
94.0	0.00
94.5	0.00
95.0	0.00
95.5	0.00
96.0	0.00
96.5	0.00
97.0	0.00
97.5	0.00
98.0	0.00
98.5	0.00
99.0	0.00
99.5	0.00
100.0	0.00
100.5	0.00
101.0	0.00
101.5	0.00
102.0	0.00
102.5	0.00
103.0	0.00
103.5	0.00
104.0	0.00
104.5	0.00
105.0	0.00
105.5	0.00
106.0	0.00
106.5	0.00
107.0	0.00
107.5	0.00
108.0	0.00
108.5	0.00
109.0	0.00
109.5	0.00
110.0	0.00
110.5	0.00

CANDELA TABULATION - (Cont.)

111.0	0.00
111.5	0.00
112.0	0.00
112.5	0.00
113.0	0.00
113.5	0.00
114.0	0.00
114.5	0.00
115.0	0.00
115.5	0.00
116.0	0.00
116.5	0.00
117.0	0.00
117.5	0.00
118.0	0.00
118.5	0.00
119.0	0.00
119.5	0.00
120.0	0.00
120.5	0.00
121.0	0.00
121.5	0.00
122.0	0.00
122.5	0.00
123.0	0.00
123.5	0.00
124.0	0.00
124.5	0.00
125.0	0.00
125.5	0.00
126.0	0.00
126.5	0.00
127.0	0.00
127.5	0.00
128.0	0.00
128.5	0.00
129.0	0.00
129.5	0.00
130.0	0.00
130.5	0.00
131.0	0.00
131.5	0.00
132.0	0.00
132.5	0.00
133.0	0.00
133.5	0.00
134.0	0.00
134.5	0.00
135.0	0.00
135.5	0.00
136.0	0.00
136.5	0.00
137.0	0.00
137.5	0.00
138.0	0.00
138.5	0.00

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139.0	0.00
139.5	0.00
140.0	0.00
140.5	0.00
141.0	0.00
141.5	0.00
142.0	0.00
142.5	0.00
143.0	0.00
143.5	0.00
144.0	0.00
144.5	0.00
145.0	0.00
145.5	0.00
146.0	0.00
146.5	0.00
147.0	0.00
147.5	0.00
148.0	0.00
148.5	0.00
149.0	0.00
149.5	0.00
150.0	0.00
150.5	0.00
151.0	0.00
151.5	0.00
152.0	0.00
152.5	0.00
153.0	0.00
153.5	0.00
154.0	0.00
154.5	0.00
155.0	0.00
155.5	0.00
156.0	0.00
156.5	0.00
157.0	0.00
157.5	0.00
158.0	0.00
158.5	0.00
159.0	0.00
159.5	0.00
160.0	0.00
160.5	0.00
161.0	0.00
161.5	0.00
162.0	0.00
162.5	0.00
163.0	0.00
163.5	0.00
164.0	0.00
164.5	0.00
165.0	0.00
165.5	0.00
166.0	0.00
166.5	0.00

CANDELA TABULATION - (Cont.)

167.0	0.00
167.5	0.00
168.0	0.00
168.5	0.00
169.0	0.00
169.5	0.00
170.0	0.00
170.5	0.00
171.0	0.00
171.5	0.00
172.0	0.00
172.5	0.00
173.0	0.00
173.5	0.00
174.0	0.00
174.5	0.00
175.0	0.00
175.5	0.00
176.0	0.00
176.5	0.00
177.0	0.00
177.5	0.00
178.0	0.00
178.5	0.00
179.0	0.00
179.5	0.00
180.0	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	59.53	N.A.	13.00
0-30	131.31	N.A.	28.60
0-40	224.60	N.A.	48.90
0-60	402.26	N.A.	87.60
0-80	453.51	N.A.	98.80
0-90	458.97	N.A.	100.00
10-90	444.13	N.A.	96.80
20-40	165.07	N.A.	36.00
20-50	268.91	N.A.	58.60
40-70	212.02	N.A.	46.20
60-80	51.25	N.A.	11.20
70-80	16.89	N.A.	3.70
80-90	5.46	N.A.	1.20
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	458.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.84
10-20	44.69
20-30	71.78
30-40	93.29
40-50	103.84
50-60	73.82
60-70	34.36
70-80	16.89
80-90	5.46
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 RW	80				70				50			30			10			0
	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	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	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

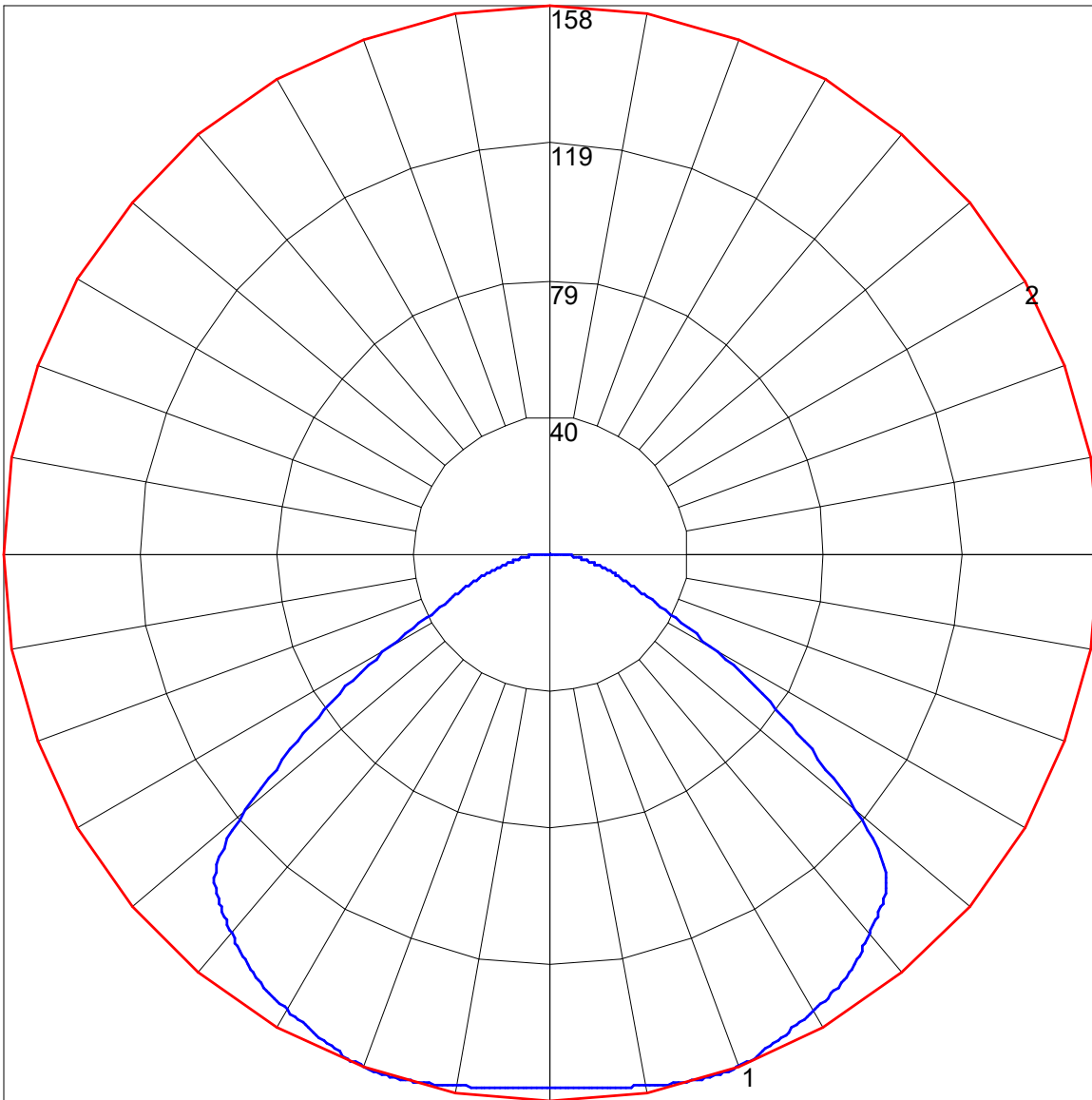
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UGR TABLE - CORRECTED

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	14.0	15.5	14.3	15.8	16.2	14.0	15.5	14.3	15.8	16.2
	3H	14.7	16.1	15.1	16.5	16.8	14.7	16.1	15.1	16.5	16.8
	4H	15.0	16.3	15.4	16.7	17.1	15.0	16.3	15.4	16.7	17.1
	6H	15.3	16.5	15.7	16.9	17.3	15.3	16.5	15.7	16.9	17.3
	8H	15.4	16.5	15.8	16.9	17.3	15.4	16.5	15.8	16.9	17.3
	12H	15.5	16.6	15.9	16.9	17.4	15.5	16.6	15.9	16.9	17.4
4H	2H	14.2	15.5	14.6	15.8	16.2	14.2	15.5	14.6	15.8	16.2
	3H	15.2	16.2	15.6	16.6	17.0	15.2	16.2	15.6	16.6	17.0
	4H	15.6	16.5	16.0	17.0	17.4	15.6	16.5	16.0	17.0	17.4
	6H	15.9	16.8	16.4	17.2	17.7	15.9	16.8	16.4	17.2	17.7
	8H	16.1	16.9	16.6	17.3	17.8	16.1	16.9	16.6	17.3	17.8
	12H	16.2	16.9	16.7	17.4	17.9	16.2	16.9	16.7	17.4	17.9
8H	4H	15.7	16.5	16.2	17.0	17.4	15.7	16.5	16.2	17.0	17.4
	6H	16.2	16.9	16.7	17.3	17.8	16.2	16.9	16.7	17.3	17.8
	8H	16.4	17.0	16.9	17.5	18.0	16.4	17.0	16.9	17.5	18.0
	12H	16.6	17.1	17.1	17.6	18.2	16.6	17.1	17.1	17.6	18.2
12H	4H	15.7	16.4	16.2	16.9	17.4	15.7	16.4	16.2	16.9	17.4
	6H	16.2	16.8	16.7	17.3	17.8	16.2	16.8	16.7	17.3	17.8
	8H	16.5	17.0	17.0	17.5	18.1	16.5	17.0	17.0	17.5	18.1

Maximum UGR = 18.2

POLAR GRAPH



Maximum Candela = 158.2 Located At Horizontal Angle = 0, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)