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IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-8998.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 13560404.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 3/4/2021
[MANUFAC] JUSTICE DESIGN GROUP L L C
[LUMCAT] ALR-8998
[LUMINAIRE] Circular metal housing and resin lens with shaved alabaster rock
[LAMP] White LED array
[BALLAST] Internal
[OTHER] 24.3 C, 120.12 V, 0.401504 A, 44.7167 W, 0.927179 PF, 59.9894
[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	1903
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	44.7167
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.54 ft (Diameter)
Luminous Width (90-270)	1.54 ft (Diameter)
Luminous Height	0.29 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2673	2673	2673
55	2461	2461	2461
65	2199	2199	2199
75	1833	1833	1833
85	1433	1433	1433

IES INDOOR REPORT
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CANDELA TABULATION

	<u>0</u>
0.0	589.990
0.5	588.268
1.0	587.448
1.5	589.252
2.0	588.432
2.5	586.300
3.0	587.202
3.5	587.202
4.0	585.398
4.5	586.054
5.0	587.120
5.5	584.742
6.0	582.774
6.5	582.856
7.0	583.512
7.5	582.528
8.0	582.446
8.5	581.052
9.0	581.626
9.5	580.724
10.0	578.592
10.5	578.592
11.0	578.018
11.5	575.886
12.0	574.820
12.5	576.132
13.0	575.066
13.5	572.934
14.0	572.852
14.5	572.114
15.0	571.048
15.5	570.884
16.0	569.982
16.5	567.358
17.0	566.456
17.5	564.980
18.0	565.062
18.5	562.028
19.0	560.470
19.5	559.486
20.0	557.354
20.5	554.566
21.0	553.336
21.5	552.106
22.0	549.072
22.5	546.366
23.0	543.988
23.5	540.872
24.0	539.478
24.5	537.100
25.0	534.968
25.5	530.950
26.0	528.490
26.5	525.620

**IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

27.0	523.406
27.5	521.438
28.0	518.486
28.5	516.436
29.0	512.336
29.5	508.892
30.0	507.006
30.5	504.792
31.0	501.922
31.5	499.298
32.0	496.428
32.5	493.066
33.0	490.114
33.5	486.834
34.0	483.554
34.5	480.274
35.0	476.748
35.5	474.124
36.0	471.910
36.5	468.712
37.0	465.186
37.5	461.742
38.0	457.396
38.5	452.886
39.0	449.524
39.5	446.736
40.0	443.374
40.5	439.356
41.0	435.666
41.5	432.222
42.0	428.614
42.5	424.678
43.0	421.316
43.5	418.856
44.0	415.248
44.5	410.000
45.0	407.376
45.5	403.522
46.0	399.176
46.5	396.306
47.0	392.534
47.5	388.270
48.0	385.318
48.5	381.792
49.0	377.938
49.5	373.756
50.0	369.574
50.5	366.376
51.0	362.604
51.5	358.176
52.0	353.256
52.5	349.648
53.0	346.368
53.5	341.776
54.0	337.102
54.5	333.166

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-8998.IES

CANDELA TABULATION - (Cont.)

55.0	329.558
55.5	324.720
56.0	320.538
56.5	316.438
57.0	312.174
57.5	308.320
58.0	303.974
58.5	299.382
59.0	294.790
59.5	291.100
60.0	287.328
60.5	282.900
61.0	278.718
61.5	274.618
62.0	270.436
62.5	266.008
63.0	261.662
63.5	257.644
64.0	253.298
64.5	249.034
65.0	244.852
65.5	240.178
66.0	235.586
66.5	231.240
67.0	227.140
67.5	222.958
68.0	218.366
68.5	213.938
69.0	209.674
69.5	205.082
70.0	200.736
70.5	196.636
71.0	191.880
71.5	187.534
72.0	183.106
72.5	178.924
73.0	174.660
73.5	169.904
74.0	165.722
74.5	161.540
75.0	156.538
75.5	152.438
76.0	148.584
76.5	144.238
77.0	139.728
77.5	135.382
78.0	131.446
78.5	127.346
79.0	123.246
79.5	119.556
80.0	115.620
80.5	111.766
81.0	108.076
81.5	104.468
82.0	100.942
82.5	97.580

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-8998.IES

CANDELA TABULATION - (Cont.)

83.0	93.972
83.5	90.692
84.0	87.740
84.5	84.706
85.0	81.467
85.5	78.441
86.0	75.727
86.5	72.783
87.0	69.725
87.5	66.609
88.0	63.722
88.5	60.992
89.0	58.359
89.5	56.096
90.0	53.726
90.5	51.676
91.0	50.192
91.5	49.011
92.0	47.609
92.5	45.576
93.0	43.116
93.5	39.836
94.0	36.810
94.5	34.005
95.0	31.062
95.5	28.060
96.0	25.395
96.5	22.714
97.0	19.893
97.5	17.105
98.0	14.416
98.5	11.824
99.0	9.373
99.5	7.208
100.0	5.437
100.5	3.928
101.0	2.657
101.5	1.706
102.0	0.992
102.5	0.525
103.0	0.238
103.5	0.074
104.0	0.008
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

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-8998.IES**

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
117.0	0.000
117.5	0.000
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124.0	0.000
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127.5	0.000
128.0	0.000
128.5	0.000
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133.0	0.000
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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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-8998.IES

CANDELA TABULATION - (Cont.)

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
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148.5	0.000
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150.0	0.000
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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

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-8998.IES**

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

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	216.98	N.A.	11.40
0-30	463.19	N.A.	24.30
0-40	761.89	N.A.	40.00
0-60	1370.52	N.A.	72.00
0-80	1778.59	N.A.	93.50
0-90	1868.43	N.A.	98.20
10-90	1812.75	N.A.	95.30
20-40	544.91	N.A.	28.60
20-50	859.23	N.A.	45.20
40-70	850.61	N.A.	44.70
60-80	408.07	N.A.	21.40
70-80	166.09	N.A.	8.70
80-90	89.85	N.A.	4.70
90-110	34.29	N.A.	1.80
90-120	34.29	N.A.	1.80
90-130	34.29	N.A.	1.80
90-150	34.29	N.A.	1.80
90-180	34.29	N.A.	1.80
110-180	0.00	N.A.	0.00
0-180	1902.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.69
10-20	161.29
20-30	246.21
30-40	298.70
40-50	314.32
50-60	294.31
60-70	241.98
70-80	166.09
80-90	89.85
90-100	33.59
100-110	0.69
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	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	107	101	96	92	104	99	94	90	94	91	87	90	87	84	86	84	81	79
2	96	87	80	74	94	85	79	73	81	76	71	78	73	69	75	71	67	65
3	88	76	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	54
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	58	53	48	46
5	73	60	51	44	71	59	50	43	56	49	43	54	47	42	52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	39	33	29	27
9	55	41	32	27	53	40	32	27	39	31	26	38	31	26	36	30	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

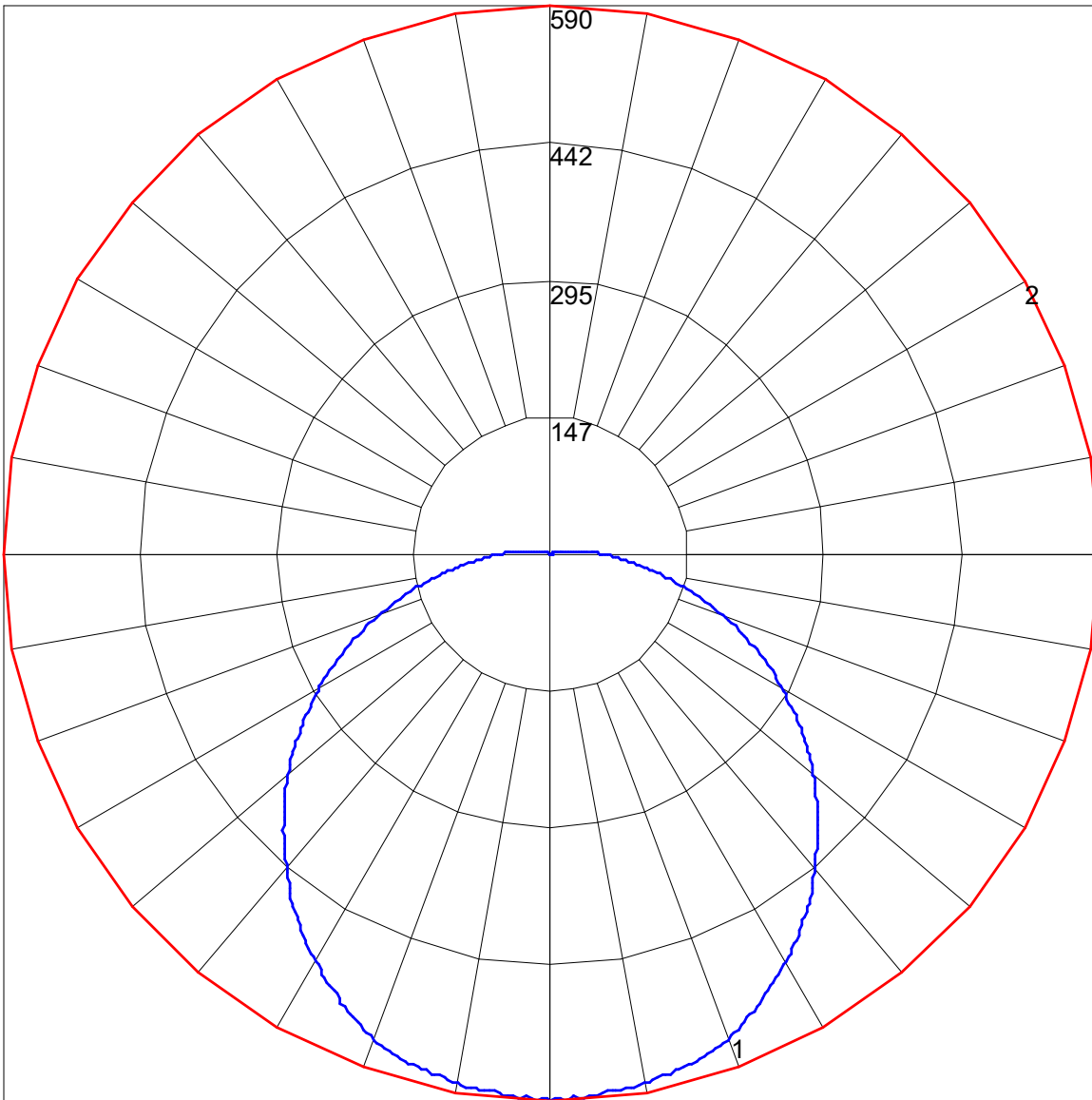
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UGR TABLE - CORRECTED

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	14.1	15.8	14.5	16.1	16.5	14.1	15.8	14.5	16.1	16.5
	3H	16.1	17.6	16.5	17.9	18.4	16.1	17.6	16.5	17.9	18.4
	4H	16.8	18.3	17.3	18.7	19.1	16.8	18.3	17.3	18.7	19.1
	6H	17.5	18.8	18.0	19.2	19.7	17.5	18.8	18.0	19.2	19.7
	8H	17.8	19.0	18.2	19.5	19.9	17.8	19.0	18.2	19.5	19.9
	12H	18.0	19.2	18.5	19.7	20.1	18.0	19.2	18.5	19.7	20.1
4H	2H	14.7	16.2	15.2	16.6	17.0	14.7	16.2	15.2	16.6	17.0
	3H	16.9	18.1	17.3	18.6	19.0	16.9	18.1	17.3	18.6	19.0
	4H	17.8	18.9	18.3	19.4	19.9	17.8	18.9	18.3	19.4	19.9
	6H	18.6	19.6	19.1	20.1	20.6	18.6	19.6	19.1	20.1	20.6
	8H	19.0	19.9	19.4	20.4	20.9	19.0	19.9	19.4	20.4	20.9
	12H	19.3	20.1	19.8	20.6	21.1	19.3	20.1	19.8	20.6	21.1
8H	4H	18.2	19.1	18.7	19.6	20.1	18.2	19.1	18.7	19.6	20.1
	6H	19.1	19.9	19.6	20.4	20.9	19.1	19.9	19.6	20.4	20.9
	8H	19.5	20.2	20.1	20.8	21.3	19.5	20.2	20.1	20.8	21.3
	12H	20.0	20.6	20.5	21.1	21.7	20.0	20.6	20.5	21.1	21.7
12H	4H	18.2	19.0	18.7	19.6	20.1	18.2	19.0	18.7	19.6	20.1
	6H	19.2	19.9	19.8	20.4	21.0	19.2	19.9	19.8	20.4	21.0
	8H	19.7	20.3	20.2	20.8	21.4	19.7	20.3	20.2	20.8	21.4

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 589.99 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)