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IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB-9595-GRAY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 13498111.11
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 9/16/2020
[MANUFAC] Justice Design Group L L C
[LUMCAT] FAB-9595-GRAY
[LUMINAIRE] Circular metal frame housing with plastic inner diffuse le
[MORE] ns and fabric decorative outer lens
[LAMP] Three (3) Maxlite LED lamps - E9A119GUD930/JA8
[OTHER] 25.3 C, 120.063 V, 0.220286 A, 24.8093 W, 0.938039 PF, 59.9995
[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	967
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	24.8093
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.25 ft (Diameter)
Luminous Width (90-270)	1.25 ft (Diameter)
Luminous Height	0.35 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1872	1872	1872
55	1707	1707	1707
65	1508	1508	1508
75	1246	1246	1246
85	855	855	855

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CANDELA TABULATION

	<u>0</u>
0.0	284.988
0.5	284.988
1.0	284.988
1.5	284.988
2.0	284.813
2.5	284.725
3.0	284.813
3.5	284.550
4.0	284.550
4.5	284.288
5.0	284.200
5.5	283.938
6.0	283.762
6.5	283.587
7.0	283.238
7.5	282.975
8.0	282.625
8.5	282.275
9.0	282.012
9.5	281.750
10.0	281.225
10.5	280.788
11.0	280.438
11.5	280.000
12.0	279.563
12.5	279.038
13.0	278.512
13.5	277.988
14.0	277.462
14.5	276.850
15.0	276.325
15.5	275.625
16.0	275.012
16.5	274.313
17.0	273.613
17.5	272.913
18.0	272.125
18.5	271.425
19.0	270.637
19.5	269.850
20.0	268.975
20.5	268.188
21.0	267.313
21.5	266.438
22.0	265.563
22.5	264.688
23.0	263.725
23.5	262.675
24.0	261.800
24.5	260.750
25.0	259.788
25.5	258.825
26.0	257.775
26.5	256.637

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CANDELA TABULATION - (Cont.)

27.0	255.500
27.5	254.363
28.0	253.313
28.5	252.175
29.0	251.125
29.5	249.900
30.0	248.675
30.5	247.537
31.0	246.313
31.5	245.088
32.0	243.863
32.5	242.550
33.0	241.238
33.5	240.012
34.0	238.613
34.5	237.387
35.0	235.900
35.5	234.588
36.0	233.188
36.5	231.787
37.0	230.387
37.5	228.900
38.0	227.412
38.5	225.925
39.0	224.525
39.5	222.950
40.0	221.463
40.5	219.887
41.0	218.488
41.5	216.825
42.0	215.338
42.5	213.850
43.0	212.100
43.5	210.438
44.0	208.775
44.5	207.287
45.0	205.537
45.5	203.875
46.0	202.300
46.5	200.463
47.0	198.887
47.5	197.137
48.0	195.300
48.5	193.637
49.0	191.887
49.5	189.963
50.0	188.213
50.5	186.375
51.0	184.363
51.5	182.613
52.0	180.775
52.5	178.938
53.0	177.012
53.5	175.088
54.0	173.162
54.5	171.238

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CANDELA TABULATION - (Cont.)

55.0	169.313
55.5	167.475
56.0	165.550
56.5	163.537
57.0	161.525
57.5	159.688
58.0	157.675
58.5	155.662
59.0	153.738
59.5	151.725
60.0	149.537
60.5	147.613
61.0	145.688
61.5	143.588
62.0	141.488
62.5	139.475
63.0	137.463
63.5	135.275
64.0	133.088
64.5	130.988
65.0	128.975
65.5	126.700
66.0	124.688
66.5	122.500
67.0	120.400
67.5	118.213
68.0	116.112
68.5	114.013
69.0	111.737
69.5	109.725
70.0	107.537
70.5	105.350
71.0	103.250
71.5	101.063
72.0	98.963
72.5	96.862
73.0	94.763
73.5	92.662
74.0	90.563
74.5	88.463
75.0	86.345
75.5	84.245
76.0	82.145
76.5	79.975
77.0	77.787
77.5	75.618
78.0	73.456
78.5	71.278
79.0	69.099
79.5	66.920
80.0	64.733
80.5	62.554
81.0	60.384
81.5	58.222
82.0	56.079
82.5	53.944

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CANDELA TABULATION - (Cont.)

83.0	51.835
83.5	49.744
84.0	47.670
84.5	45.605
85.0	43.557
85.5	41.563
86.0	39.585
86.5	37.669
87.0	35.831
87.5	34.142
88.0	32.594
88.5	31.264
89.0	30.135
89.5	29.146
90.0	28.166
90.5	27.204
91.0	26.189
91.5	25.095
92.0	23.870
92.5	22.593
93.0	21.262
93.5	19.906
94.0	18.497
94.5	17.089
95.0	15.645
95.5	14.175
96.0	12.696
96.5	11.209
97.0	9.730
97.5	8.295
98.0	6.939
98.5	5.679
99.0	4.541
99.5	3.518
100.0	2.607
100.5	1.820
101.0	1.164
101.5	0.656
102.0	0.306
102.5	0.096
103.0	0.026
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

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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
118.0	0.000
118.5	0.000
119.0	0.000
119.5	0.000
120.0	0.000
120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
122.5	0.000
123.0	0.000
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	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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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
148.0	0.000
148.5	0.000
149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
156.0	0.000
156.5	0.000
157.0	0.000
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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

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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	105.05	N.A.	10.90
0-30	224.85	N.A.	23.30
0-40	372.54	N.A.	38.50
0-60	682.66	N.A.	70.60
0-80	901.30	N.A.	93.20
0-90	949.69	N.A.	98.20
10-90	922.66	N.A.	95.40
20-40	267.49	N.A.	27.70
20-50	426.14	N.A.	44.10
40-70	437.69	N.A.	45.30
60-80	218.64	N.A.	22.60
70-80	91.07	N.A.	9.40
80-90	48.39	N.A.	5.00
90-110	17.21	N.A.	1.80
90-120	17.21	N.A.	1.80
90-130	17.21	N.A.	1.80
90-150	17.21	N.A.	1.80
90-180	17.21	N.A.	1.80
110-180	0.00	N.A.	0.00
0-180	966.90	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.03
10-20	78.01
20-30	119.81
30-40	147.69
40-50	158.65
50-60	151.46
60-70	127.58
70-80	91.07
80-90	48.39
90-100	16.92
100-110	0.29
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	106	101	96	91	103	98	94	90	94	90	87	89	86	84	86	83	81	78
2	96	87	79	73	93	85	78	72	81	75	70	77	72	68	74	70	66	64
3	87	76	67	60	84	74	66	59	71	63	58	67	61	56	65	60	55	53
4	79	67	57	50	77	65	56	50	62	55	49	60	53	48	57	52	47	45
5	73	59	50	43	71	58	49	42	56	48	42	53	46	41	51	45	40	38
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	46	40	35	33
7	62	48	39	33	60	47	38	32	45	38	32	44	37	32	42	36	31	29
8	58	44	35	29	56	43	35	29	41	34	28	40	33	28	39	32	28	26
9	54	40	32	26	52	39	31	26	38	31	26	37	30	25	36	30	25	23
10	51	37	29	23	49	36	29	23	35	28	23	34	28	23	33	27	23	21

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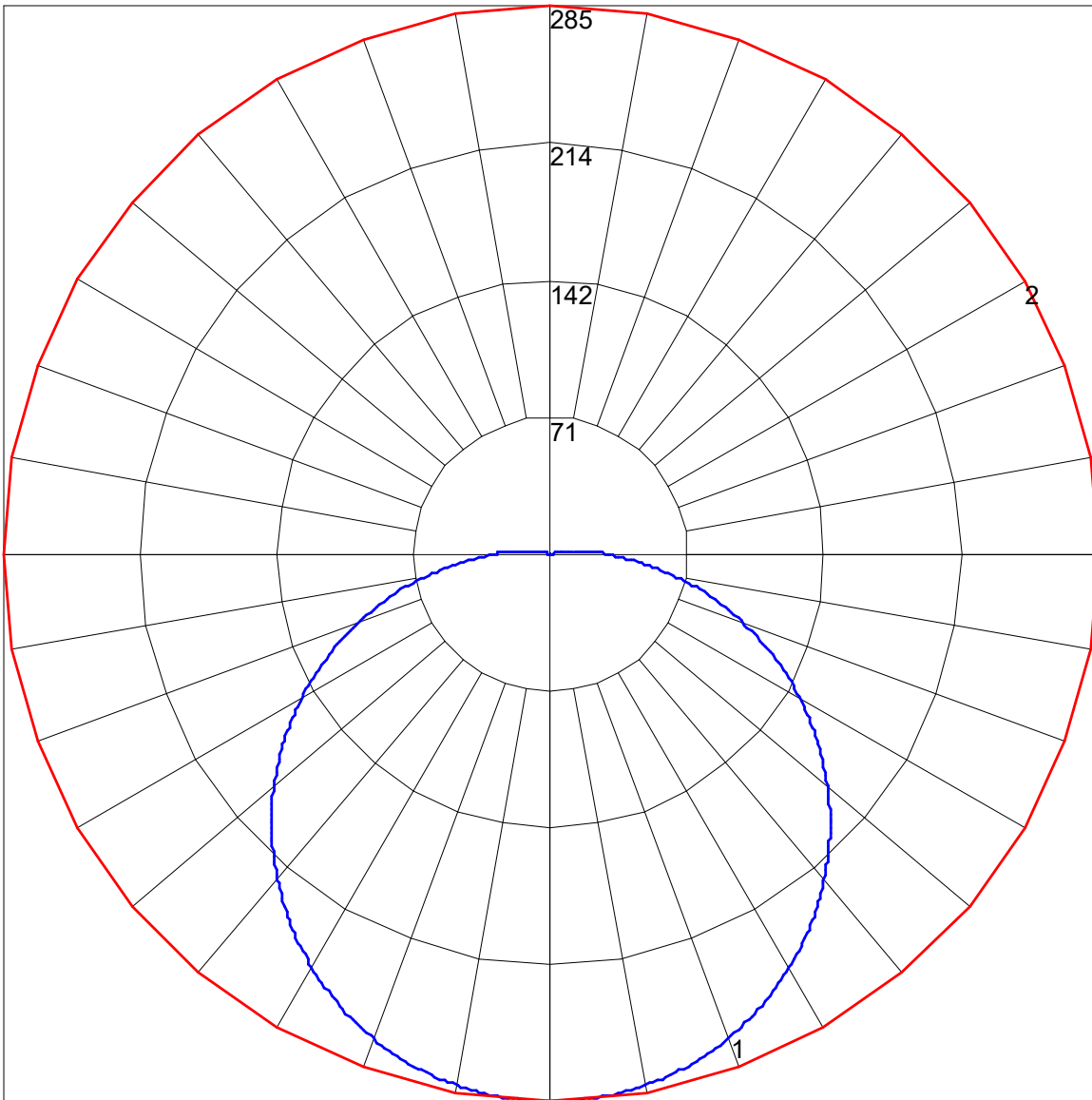
UGR TABLE - CORRECTED

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	13.0	14.6	13.3	15.0	15.3	13.0	14.6	13.3	15.0	15.3
	3H	14.9	16.4	15.3	16.8	17.2	14.9	16.4	15.3	16.8	17.2
	4H	15.7	17.2	16.2	17.6	18.0	15.7	17.2	16.2	17.6	18.0
	6H	16.4	17.8	16.8	18.2	18.6	16.4	17.8	16.8	18.2	18.6
	8H	16.7	18.0	17.1	18.4	18.8	16.7	18.0	17.1	18.4	18.8
	12H	16.9	18.1	17.4	18.6	19.0	16.9	18.1	17.4	18.6	19.0
4H	2H	13.6	15.0	14.0	15.4	15.8	13.6	15.0	14.0	15.4	15.8
	3H	15.8	17.0	16.2	17.4	17.9	15.8	17.0	16.2	17.4	17.9
	4H	16.7	17.8	17.2	18.3	18.8	16.7	17.8	17.2	18.3	18.8
	6H	17.5	18.5	18.0	19.0	19.5	17.5	18.5	18.0	19.0	19.5
	8H	17.9	18.8	18.3	19.3	19.8	17.9	18.8	18.3	19.3	19.8
	12H	18.1	19.0	18.6	19.5	20.0	18.1	19.0	18.6	19.5	20.0
8H	4H	17.0	18.0	17.5	18.5	19.0	17.0	18.0	17.5	18.5	19.0
	6H	18.0	18.8	18.5	19.3	19.8	18.0	18.8	18.5	19.3	19.8
	8H	18.4	19.2	19.0	19.7	20.2	18.4	19.2	19.0	19.7	20.2
	12H	18.8	19.5	19.4	20.0	20.6	18.8	19.5	19.4	20.0	20.6
12H	4H	17.1	17.9	17.6	18.5	19.0	17.1	17.9	17.6	18.5	19.0
	6H	18.1	18.8	18.7	19.3	19.9	18.1	18.8	18.7	19.3	19.9
	8H	18.6	19.2	19.1	19.7	20.3	18.6	19.2	19.1	19.7	20.3

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 284.988 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.)