



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LUNA-48-FWL-45L-830.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 1222059
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 9/28/22
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] LUNA-48-FWL-45L-830
[TEST PROCEDURE] IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4500
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	38
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	Circular w/ Sides
Luminous Length (0-180)	4.00 ft (Diameter)
Luminous Width (90-270)	4.00 ft (Diameter)
Luminous Height	1.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	512	512	512
55	480	480	480
65	439	439	439
75	390	390	390
85	334	334	334

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CANDELA TABULATION

	<u>0</u>
0.0	747
0.5	748
1.0	748
1.5	749
2.0	750
2.5	750
3.0	750
3.5	750
4.0	750
4.5	750
5.0	750
5.5	749
6.0	748
6.5	748
7.0	747
7.5	747
8.0	746
8.5	745
9.0	744
9.5	743
10.0	742
10.5	741
11.0	740
11.5	739
12.0	738
12.5	737
13.0	736
13.5	734
14.0	733
14.5	732
15.0	730
15.5	729
16.0	727
16.5	726
17.0	724
17.5	722
18.0	721
18.5	719
19.0	717
19.5	715
20.0	713
20.5	711
21.0	710
21.5	708
22.0	706
22.5	704
23.0	701
23.5	699
24.0	697
24.5	694
25.0	692
25.5	690
26.0	687
26.5	685

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CANDELA TABULATION - (Cont.)

27.0	682
27.5	680
28.0	677
28.5	674
29.0	671
29.5	669
30.0	666
30.5	663
31.0	660
31.5	657
32.0	653
32.5	650
33.0	648
33.5	645
34.0	641
34.5	638
35.0	634
35.5	631
36.0	628
36.5	624
37.0	620
37.5	617
38.0	613
38.5	610
39.0	606
39.5	602
40.0	598
40.5	595
41.0	591
41.5	587
42.0	583
42.5	579
43.0	575
43.5	571
44.0	567
44.5	563
45.0	558
45.5	554
46.0	550
46.5	546
47.0	541
47.5	537
48.0	532
48.5	528
49.0	524
49.5	519
50.0	515
50.5	510
51.0	505
51.5	501
52.0	496
52.5	491
53.0	487
53.5	482
54.0	477
54.5	472

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CANDELA TABULATION - (Cont.)

55.0	468
55.5	463
56.0	458
56.5	453
57.0	448
57.5	443
58.0	438
58.5	433
59.0	428
59.5	422
60.0	417
60.5	412
61.0	407
61.5	402
62.0	397
62.5	391
63.0	386
63.5	381
64.0	376
64.5	370
65.0	365
65.5	360
66.0	354
66.5	349
67.0	344
67.5	338
68.0	333
68.5	327
69.0	322
69.5	317
70.0	311
70.5	306
71.0	301
71.5	295
72.0	290
72.5	284
73.0	279
73.5	274
74.0	268
74.5	263
75.0	258
75.5	253
76.0	247
76.5	242
77.0	237
77.5	232
78.0	226
78.5	221
79.0	216
79.5	211
80.0	206
80.5	201
81.0	196
81.5	191
82.0	186
82.5	181

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CANDELA TABULATION - (Cont.)

83.0	176
83.5	172
84.0	167
84.5	162
85.0	158
85.5	153
86.0	149
86.5	145
87.0	141
87.5	137
88.0	133
88.5	130
89.0	128
89.5	126
90.0	125
90.5	125
91.0	126
91.5	127
92.0	127
92.5	128
93.0	129
93.5	130
94.0	131
94.5	132
95.0	133
95.5	135
96.0	136
96.5	138
97.0	139
97.5	141
98.0	143
98.5	145
99.0	147
99.5	149
100.0	151
100.5	153
101.0	156
101.5	158
102.0	161
102.5	163
103.0	166
103.5	168
104.0	170
104.5	172
105.0	174
105.5	176
106.0	178
106.5	180
107.0	183
107.5	186
108.0	189
108.5	192
109.0	196
109.5	200
110.0	204
110.5	209

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CANDELA TABULATION - (Cont.)

111.0	213
111.5	218
112.0	223
112.5	228
113.0	233
113.5	238
114.0	243
114.5	249
115.0	254
115.5	259
116.0	264
116.5	269
117.0	274
117.5	280
118.0	285
118.5	290
119.0	295
119.5	300
120.0	304
120.5	309
121.0	314
121.5	318
122.0	323
122.5	327
123.0	332
123.5	336
124.0	340
124.5	344
125.0	349
125.5	353
126.0	357
126.5	361
127.0	366
127.5	370
128.0	375
128.5	379
129.0	383
129.5	387
130.0	390
130.5	394
131.0	397
131.5	401
132.0	404
132.5	407
133.0	410
133.5	414
134.0	417
134.5	419
135.0	422
135.5	425
136.0	427
136.5	429
137.0	430
137.5	431
138.0	432
138.5	434

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CANDELA TABULATION - (Cont.)

139.0	435
139.5	436
140.0	437
140.5	439
141.0	440
141.5	441
142.0	442
142.5	443
143.0	443
143.5	444
144.0	444
144.5	445
145.0	444
145.5	444
146.0	443
146.5	443
147.0	442
147.5	442
148.0	441
148.5	439
149.0	438
149.5	437
150.0	436
150.5	435
151.0	434
151.5	433
152.0	433
152.5	432
153.0	432
153.5	431
154.0	431
154.5	431
155.0	430
155.5	430
156.0	429
156.5	429
157.0	428
157.5	426
158.0	425
158.5	424
159.0	422
159.5	421
160.0	419
160.5	418
161.0	416
161.5	414
162.0	413
162.5	412
163.0	411
163.5	410
164.0	409
164.5	408
165.0	407
165.5	406
166.0	405
166.5	404

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CANDELA TABULATION - (Cont.)

167.0	403
167.5	402
168.0	401
168.5	399
169.0	398
169.5	397
170.0	396
170.5	395
171.0	393
171.5	392
172.0	391
172.5	390
173.0	389
173.5	388
174.0	387
174.5	386
175.0	385
175.5	384
176.0	383
176.5	381
177.0	379
177.5	376
178.0	374
178.5	373
179.0	372
179.5	372
180.0	372

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	277.60	N.A.	6.20
0-30	596.91	N.A.	13.30
0-40	994.05	N.A.	22.10
0-60	1843.25	N.A.	41.00
0-80	2477.18	N.A.	55.10
0-90	2651.49	N.A.	58.90
10-90	2580.2	N.A.	57.30
20-40	716.45	N.A.	15.90
20-50	1147.51	N.A.	25.50
40-70	1210.54	N.A.	26.90
60-80	633.93	N.A.	14.10
70-80	272.59	N.A.	6.10
80-90	174.31	N.A.	3.90
90-110	332.05	N.A.	7.40
90-120	583.39	N.A.	13.00
90-130	895.27	N.A.	19.90
90-150	1496.53	N.A.	33.30
90-180	1848.13	N.A.	41.10
110-180	1516.08	N.A.	33.70
0-180	4499.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.29
10-20	206.31
20-30	319.30
30-40	397.15
40-50	431.06
50-60	418.13
60-70	361.34
70-80	272.59
80-90	174.31
90-100	147.20
100-110	184.85
110-120	251.34
120-130	311.87
130-140	323.87
140-150	277.40
150-160	198.85
160-170	115.71
170-180	37.04

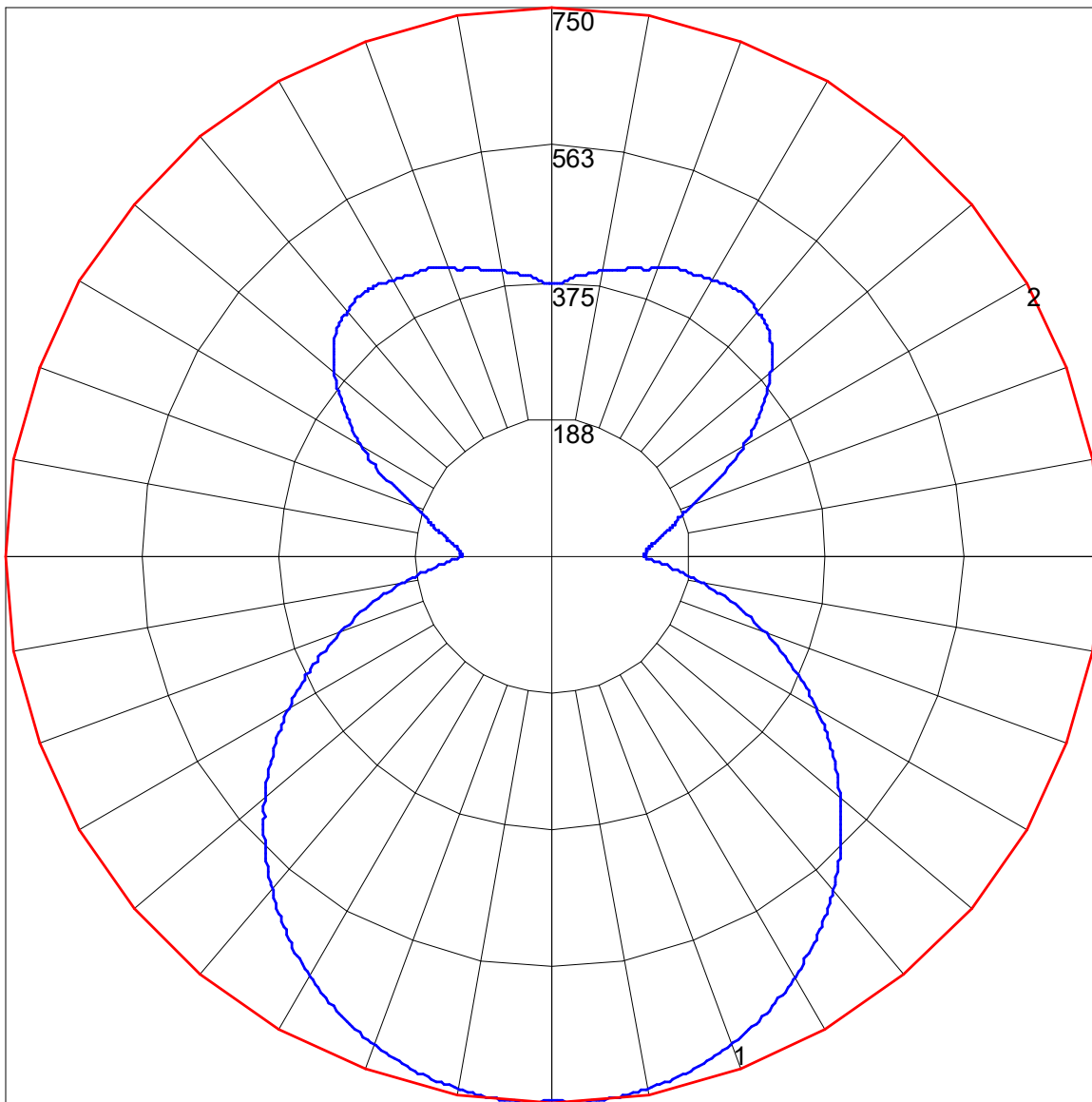
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	98	93	88	84	91	87	83	79	75	72	69	64	62	60	54	53	51	46
2	89	80	73	67	82	75	69	63	65	60	56	55	52	49	47	44	42	37
3	80	70	62	55	74	65	58	52	56	51	46	48	44	40	41	37	35	31
4	73	61	53	46	68	57	50	44	50	44	39	43	38	34	36	32	29	26
5	67	55	46	39	62	51	43	37	44	38	33	38	33	29	32	28	25	22
6	62	49	40	34	57	46	38	32	40	33	29	34	29	25	29	25	22	19
7	57	44	35	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15
9	49	36	28	23	46	34	27	22	30	24	20	26	21	18	22	18	15	13
10	46	33	26	21	43	31	24	20	28	22	18	24	19	16	21	17	14	12

POLAR GRAPH



Maximum Candela = 750 Located At Horizontal Angle = 0, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)