



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L70-835-DIM-UNV-OM-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from TEST 12326812.22
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 6/7/2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L70-835-DIM-UNV-OM-OF-CS
 [LUMINAIRE] Black formed aluminum housing, specular reflector, no lens
 [MORE] enclosure
 [LAMP] One white LED
 [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	6898
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	67.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	12452	12452	12452
55	4592	4592	4592
65	1825	1825	1825
75	1018	1018	1018
85	972	972	972

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CANDELA TABULATION

	<u>0</u>
0.0	12837.559
0.5	12875.347
1.0	12976.687
1.5	13143.297
2.0	13291.013
2.5	13435.294
3.0	13572.704
3.5	13680.915
4.0	13758.208
4.5	13735.879
5.0	13619.080
5.5	13454.188
6.0	13229.178
6.5	12959.510
7.0	12658.925
7.5	12339.446
8.0	11987.332
8.5	11607.736
9.0	11212.682
9.5	10829.651
10.0	10475.819
10.5	10144.317
11.0	9828.273
11.5	9537.994
12.0	9280.349
12.5	9048.469
13.0	8832.048
13.5	8627.650
14.0	8436.993
14.5	8261.795
15.0	8088.315
15.5	7925.140
16.0	7768.836
16.5	7617.684
17.0	7469.968
17.5	7320.535
18.0	7171.101
18.5	7018.232
19.0	6865.363
19.5	6712.494
20.0	6561.343
20.5	6410.191
21.0	6253.887
21.5	6090.712
22.0	5925.820
22.5	5760.928
23.0	5594.318
23.5	5424.272
24.0	5254.227
24.5	5085.899
25.0	4922.725
25.5	4759.550
26.0	4598.093
26.5	4443.506

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CANDELA TABULATION - (Cont.)

27.0	4297.508
27.5	4161.815
28.0	4031.275
28.5	3909.324
29.0	3795.960
29.5	3677.444
30.0	3540.033
30.5	3383.729
31.0	3217.119
31.5	3038.486
32.0	2837.523
32.5	2602.208
33.0	2346.281
33.5	2083.484
34.0	1822.404
34.5	1568.711
35.0	1334.254
35.5	1127.967
36.0	960.842
36.5	820.855
37.0	700.277
37.5	602.716
38.0	533.152
38.5	490.727
39.0	458.092
39.5	425.800
40.0	392.478
40.5	360.359
41.0	328.754
41.5	298.180
42.0	269.840
42.5	243.216
43.0	218.654
43.5	199.073
44.0	183.615
44.5	170.904
45.0	160.770
45.5	151.667
46.0	143.937
46.5	136.723
47.0	130.025
47.5	123.841
48.0	117.486
48.5	111.646
49.0	105.462
49.5	99.107
50.0	92.924
50.5	87.256
51.0	82.103
51.5	76.606
52.0	71.625
52.5	66.988
53.0	62.350
53.5	58.571
54.0	54.964
54.5	51.014

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CANDELA TABULATION - (Cont.)

55.0	48.094
55.5	45.002
56.0	42.254
56.5	39.849
57.0	37.101
57.5	35.040
58.0	33.150
58.5	30.917
59.0	29.028
59.5	27.310
60.0	25.421
60.5	24.219
61.0	22.844
61.5	21.470
62.0	20.096
62.5	19.066
63.0	17.863
63.5	17.005
64.0	15.802
64.5	15.287
65.0	14.085
65.5	13.398
66.0	12.882
66.5	12.023
67.0	11.336
67.5	10.478
68.0	10.306
68.5	9.619
69.0	8.932
69.5	8.416
70.0	8.245
70.5	7.558
71.0	7.042
71.5	7.386
72.0	6.527
72.5	6.183
73.0	5.668
73.5	5.668
74.0	5.153
74.5	4.638
75.0	4.809
75.5	4.294
76.0	3.951
76.5	3.779
77.0	3.779
77.5	3.435
78.0	2.920
78.5	3.092
79.0	3.092
79.5	3.092
80.0	2.576
80.5	2.405
81.0	2.233
81.5	2.233
82.0	2.061
82.5	1.889

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CANDELA TABULATION - (Cont.)

83.0	1.718
83.5	1.718
84.0	2.061
84.5	1.546
85.0	1.546
85.5	1.546
86.0	1.374
86.5	1.374
87.0	1.374
87.5	1.202
88.0	1.031
88.5	1.202
89.0	1.202
89.5	0.859
90.0	1.031
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

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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
133.0	0.000
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
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

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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	3460.95	N.A.	50.20
0-30	5717.85	N.A.	82.90
0-40	6686.75	N.A.	96.90
0-60	6876.64	N.A.	99.70
0-80	6896.65	N.A.	100.00
0-90	6898.41	N.A.	100.00
10-90	5712.1	N.A.	82.80
20-40	3225.79	N.A.	46.80
20-50	3369.71	N.A.	48.80
40-70	204.77	N.A.	3.00
60-80	20.00	N.A.	0.30
70-80	5.13	N.A.	0.10
80-90	1.76	N.A.	0.00
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6898.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1186.31
10-20	2274.64
20-30	2256.89
30-40	968.90
40-50	143.92
50-60	45.98
60-70	14.87
70-80	5.13
80-90	1.76
90-100	0.03
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

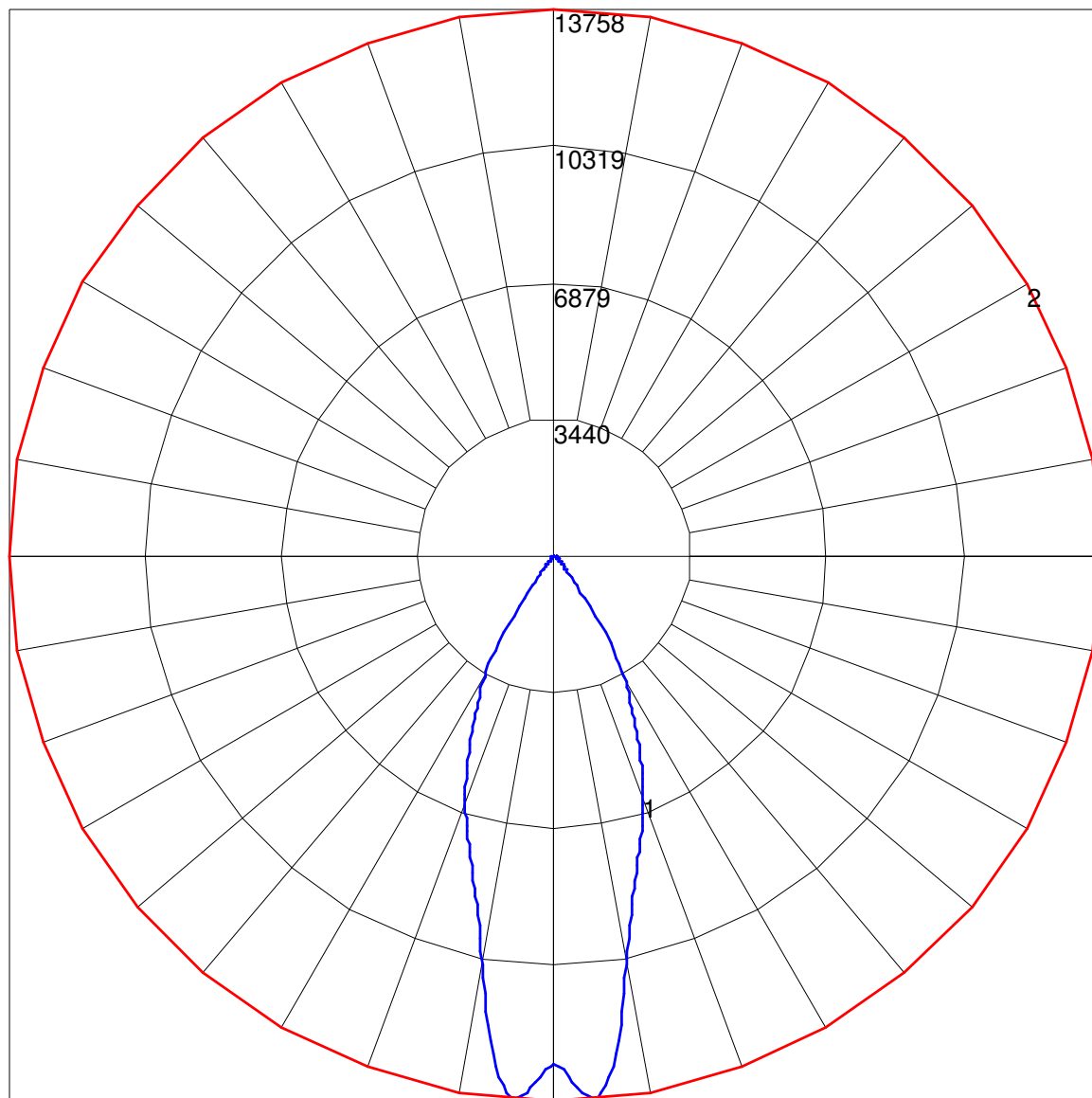
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	204	204	204	204	200	200	200	200	191	191	191	183	183	183	175	175	175	172
1	196	192	188	184	192	188	184	181	181	178	176	175	172	170	169	167	166	163
2	187	180	174	168	184	177	171	166	171	167	163	166	163	159	162	159	156	153
3	179	169	162	156	176	167	160	154	163	157	152	159	154	150	155	151	147	145
4	172	160	151	145	169	158	150	144	154	148	142	151	145	141	148	143	139	137
5	164	151	142	136	161	150	141	135	147	140	134	144	138	133	141	136	132	129
6	157	143	134	128	155	142	134	127	140	132	126	137	131	126	135	129	125	123
7	151	136	127	121	148	135	127	120	133	125	120	131	124	119	129	123	119	116
8	144	130	121	114	142	129	120	114	127	119	114	125	118	113	124	117	113	111
9	139	124	115	109	137	123	114	108	121	114	108	120	113	108	119	112	107	105
10	133	118	109	103	131	118	109	103	116	108	103	115	108	103	114	107	102	100

POLAR GRAPH



Maximum Candela = 13758.208 Located At Horizontal Angle = 0, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)