



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L80-835-DIM-UNV-OM-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.22
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 6/7/2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L840-835-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	7892
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	79.8
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	14245	14245	14245
55	5253	5253	5253
65	2088	2088	2088
75	1164	1164	1164
85	1111	1111	1111

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CANDELA TABULATION

	<u>0</u>
0.0	14685.588
0.5	14728.815
1.0	14844.744
1.5	15035.338
2.0	15204.319
2.5	15369.370
3.0	15526.561
3.5	15650.349
4.0	15738.769
4.5	15713.225
5.0	15579.613
5.5	15390.983
6.0	15133.583
6.5	14825.095
7.0	14481.239
7.5	14115.770
8.0	13712.967
8.5	13278.727
9.0	12826.802
9.5	12388.631
10.0	11983.864
10.5	11604.640
11.0	11243.101
11.5	10911.034
12.0	10616.301
12.5	10351.041
13.0	10103.464
13.5	9869.642
14.0	9651.540
14.5	9451.121
15.0	9252.667
15.5	9066.002
16.0	8887.197
16.5	8714.287
17.0	8545.307
17.5	8374.361
18.0	8203.416
18.5	8028.541
19.0	7853.665
19.5	7678.790
20.0	7505.880
20.5	7332.969
21.0	7154.165
21.5	6967.500
22.0	6778.871
22.5	6590.241
23.0	6399.647
23.5	6205.123
24.0	6010.599
24.5	5818.039
25.0	5631.375
25.5	5444.710
26.0	5260.011
26.5	5083.170

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CANDELA TABULATION - (Cont.)

27.0	4916.155
27.5	4760.928
28.0	4611.597
28.5	4472.090
29.0	4342.407
29.5	4206.829
30.0	4049.638
30.5	3870.833
31.0	3680.239
31.5	3475.890
32.0	3245.998
32.5	2976.808
33.0	2684.040
33.5	2383.412
34.0	2084.748
34.5	1794.534
35.0	1526.327
35.5	1290.343
36.0	1099.159
36.5	939.021
37.0	801.086
37.5	689.480
38.0	609.902
38.5	561.369
39.0	524.036
39.5	487.096
40.0	448.977
40.5	412.234
41.0	376.080
41.5	341.105
42.0	308.684
42.5	278.228
43.0	250.130
43.5	227.731
44.0	210.047
44.5	195.507
45.0	183.914
45.5	173.500
46.0	164.658
46.5	156.405
47.0	148.742
47.5	141.669
48.0	134.398
48.5	127.718
49.0	120.644
49.5	113.374
50.0	106.301
50.5	99.816
51.0	93.922
51.5	87.634
52.0	81.936
52.5	76.631
53.0	71.326
53.5	67.003
54.0	62.876
54.5	58.357

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CANDELA TABULATION - (Cont.)

55.0	55.017
55.5	51.480
56.0	48.336
56.5	45.585
57.0	42.442
57.5	40.084
58.0	37.922
58.5	35.368
59.0	33.207
59.5	31.242
60.0	29.080
60.5	27.705
61.0	26.133
61.5	24.561
62.0	22.989
62.5	21.810
63.0	20.435
63.5	19.452
64.0	18.077
64.5	17.488
65.0	16.112
65.5	15.326
66.0	14.737
66.5	13.754
67.0	12.968
67.5	11.986
68.0	11.789
68.5	11.003
69.0	10.217
69.5	9.628
70.0	9.431
70.5	8.646
71.0	8.056
71.5	8.449
72.0	7.467
72.5	7.074
73.0	6.484
73.5	6.484
74.0	5.895
74.5	5.305
75.0	5.502
75.5	4.912
76.0	4.519
76.5	4.323
77.0	4.323
77.5	3.930
78.0	3.340
78.5	3.537
79.0	3.537
79.5	3.537
80.0	2.947
80.5	2.751
81.0	2.554
81.5	2.554
82.0	2.358
82.5	2.161

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CANDELA TABULATION - (Cont.)

83.0	1.965
83.5	1.965
84.0	2.358
84.5	1.768
85.0	1.768
85.5	1.768
86.0	1.572
86.5	1.572
87.0	1.572
87.5	1.375
88.0	1.179
88.5	1.375
89.0	1.375
89.5	0.982
90.0	1.179
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
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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
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131.0	0.000
131.5	0.000
132.0	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
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	3959.18	N.A.	50.20
0-30	6540.96	N.A.	82.90
0-40	7649.34	N.A.	96.90
0-60	7866.57	N.A.	99.70
0-80	7889.45	N.A.	100.00
0-90	7891.47	N.A.	100.00
10-90	6534.38	N.A.	82.80
20-40	3690.16	N.A.	46.80
20-50	3854.8	N.A.	48.80
40-70	234.24	N.A.	3.00
60-80	22.88	N.A.	0.30
70-80	5.87	N.A.	0.10
80-90	2.02	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	7891.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1357.09
10-20	2602.09
20-30	2581.78
30-40	1108.38
40-50	164.64
50-60	52.60
60-70	17.01
70-80	5.87
80-90	2.02
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

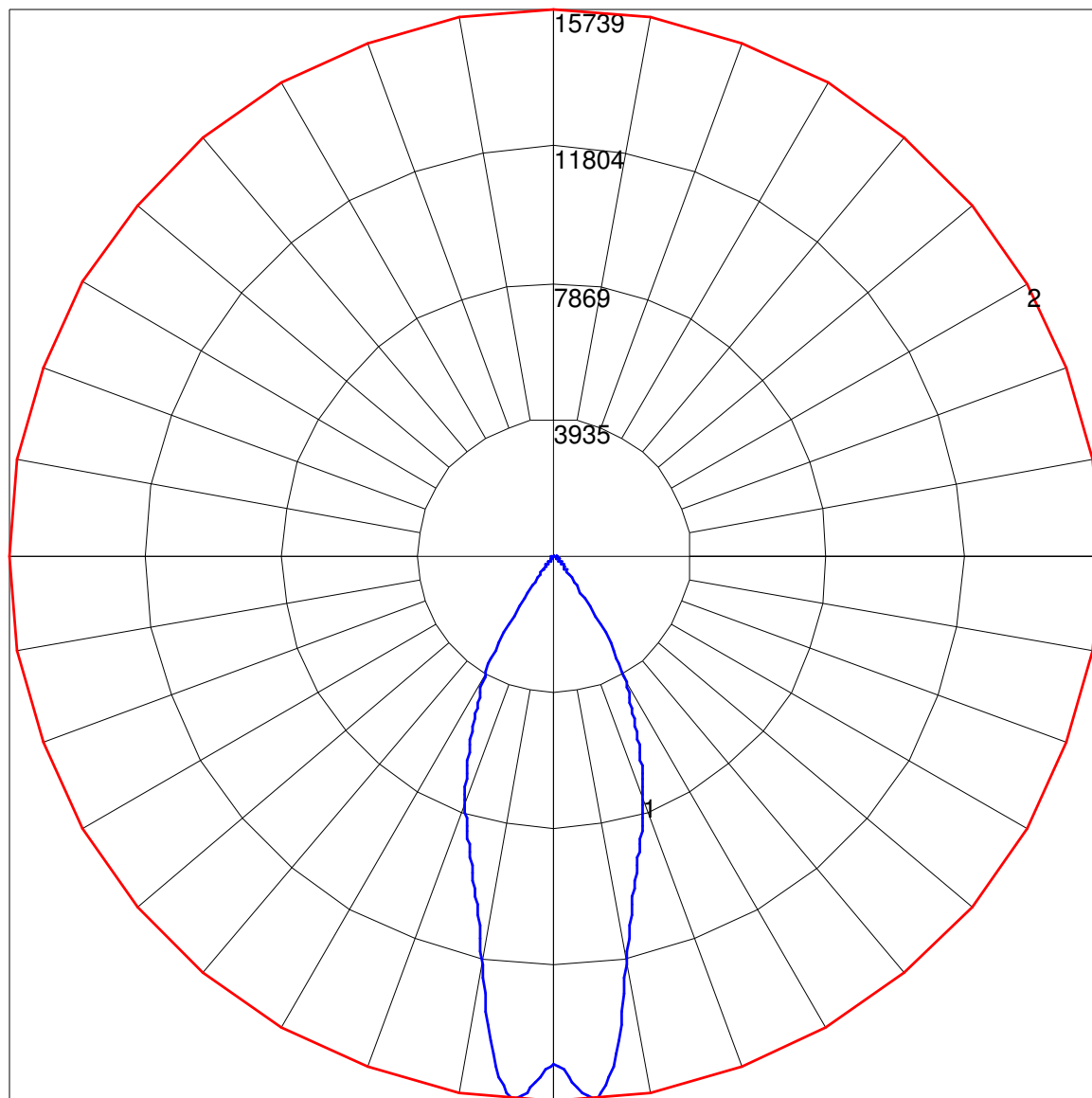
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	234	234	234	234	228	228	228	228	218	218	218	209	209	209	201	201	201	197
1	224	219	215	211	219	215	211	207	207	204	201	200	197	195	193	191	189	186
2	214	206	199	193	210	202	196	190	196	191	186	190	186	182	185	182	179	175
3	205	194	185	178	201	191	183	177	186	179	174	181	176	171	177	172	168	166
4	196	183	173	166	193	181	172	165	177	169	163	173	166	161	169	164	159	156
5	188	173	163	155	185	171	162	155	168	160	153	165	158	152	162	156	151	148
6	180	164	154	146	177	163	153	146	160	151	145	157	150	144	155	148	143	140
7	172	156	145	138	170	155	145	138	152	143	137	150	142	136	148	141	136	133
8	165	148	138	131	163	147	137	131	145	136	130	143	135	129	142	134	129	127
9	158	142	131	124	156	141	131	124	139	130	124	137	129	123	136	128	123	120
10	152	135	125	118	150	134	125	118	133	124	118	131	123	117	130	123	117	115

POLAR GRAPH



Maximum Candela = 15738.769 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.)