



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from 12326812.23  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 6/8/2018  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L80-835-DIM-UNV-ON-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	8071
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	79.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.20
Spacing Criterion (90-270)	0.20
Spacing Criterion (Diagonal)	0.22
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	4052	4052	4052
55	1537	1537	1537
65	521	521	521
75	426	426	426
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	74331.262
0.5	73928.819
1.0	72681.245
1.5	70608.663
2.0	67570.216
2.5	63706.761
3.0	59219.520
3.5	54551.178
4.0	49701.737
4.5	44751.686
5.0	39982.734
5.5	35455.248
6.0	31310.082
6.5	27849.071
7.0	25031.968
7.5	22617.309
8.0	20564.848
8.5	18771.964
9.0	17194.386
9.5	15805.957
10.0	14578.506
10.5	13516.055
11.0	12576.351
11.5	11769.452
12.0	11051.091
12.5	10423.279
13.0	9879.981
13.5	9407.110
14.0	8996.618
14.5	8638.444
15.0	8328.562
15.5	8056.913
16.0	7809.411
16.5	7582.030
17.0	7370.748
17.5	7165.502
18.0	6968.304
18.5	6775.132
19.0	6583.971
19.5	6388.786
20.0	6185.552
20.5	5976.282
21.0	5758.962
21.5	5539.631
22.0	5314.263
22.5	5088.894
23.0	4863.526
23.5	4640.170
24.0	4424.863
24.5	4217.605
25.0	4026.444
25.5	3849.369
26.0	3686.380
26.5	3541.500

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**CANDELA TABULATION - (Cont.)**

27.0	3414.731
27.5	3310.095
28.0	3227.595
28.5	3165.216
29.0	3114.911
29.5	3056.556
30.0	2974.055
30.5	2867.408
31.0	2738.626
31.5	2581.673
32.0	2396.549
32.5	2181.242
33.0	1931.727
33.5	1672.152
34.0	1406.539
34.5	1146.963
35.0	905.497
35.5	694.215
36.0	517.140
36.5	374.272
37.0	261.588
37.5	179.087
38.0	126.770
38.5	100.611
39.0	94.574
39.5	88.538
40.0	84.513
40.5	80.489
41.0	76.464
41.5	72.440
42.0	70.428
42.5	66.403
43.0	64.391
43.5	60.366
44.0	58.354
44.5	54.330
45.0	52.318
45.5	50.305
46.0	48.293
46.5	44.269
47.0	42.257
47.5	40.244
48.0	38.232
48.5	36.220
49.0	34.208
49.5	32.195
50.0	30.183
50.5	28.171
51.0	26.159
51.5	24.147
52.0	22.134
52.5	22.134
53.0	20.122
53.5	18.110
54.0	18.110
54.5	16.098

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**CANDELA TABULATION - (Cont.)**

55.0	16.098
55.5	14.086
56.0	14.086
56.5	12.073
57.0	12.073
57.5	12.073
58.0	10.061
58.5	10.061
59.0	10.061
59.5	10.061
60.0	8.049
60.5	8.049
61.0	8.049
61.5	8.049
62.0	6.037
62.5	6.037
63.0	6.037
63.5	6.037
64.0	6.037
64.5	6.037
65.0	4.024
65.5	4.024
66.0	4.024
66.5	4.024
67.0	4.024
67.5	4.024
68.0	4.024
68.5	4.024
69.0	4.024
69.5	4.024
70.0	2.012
70.5	2.012
71.0	2.012
71.5	2.012
72.0	2.012
72.5	2.012
73.0	2.012
73.5	2.012
74.0	2.012
74.5	2.012
75.0	2.012
75.5	2.012
76.0	2.012
76.5	2.012
77.0	2.012
77.5	2.012
78.0	2.012
78.5	2.012
79.0	2.012
79.5	2.012
80.0	0.000
80.5	0.000
81.0	0.000
81.5	0.000
82.0	0.000
82.5	0.000

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CANDELA TABULATION - (Cont.)

83.0	0.000
83.5	0.000
84.0	0.000
84.5	0.000
85.0	0.000
85.5	0.000
86.0	0.000
86.5	0.000
87.0	0.000
87.5	0.000
88.0	0.000
88.5	0.000
89.0	0.000
89.5	0.000
90.0	0.000
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

IES INDOOR REPORT  
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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	5390.73	N.A.	66.80
0-30	7304.73	N.A.	90.50
0-40	8007.44	N.A.	99.20
0-60	8063.49	N.A.	99.90
0-80	8070.77	N.A.	100.00
0-90	8070.77	N.A.	100.00
10-90	5112.68	N.A.	63.30
20-40	2616.71	N.A.	32.40
20-50	2657.91	N.A.	32.90
40-70	61.25	N.A.	0.80
60-80	7.28	N.A.	0.10
70-80	2.07	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	8070.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2958.09
10-20	2432.64
20-30	1914.00
30-40	702.71
40-50	41.20
50-60	14.84
60-70	5.21
70-80	2.07
80-90	0.00
90-100	0.00
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

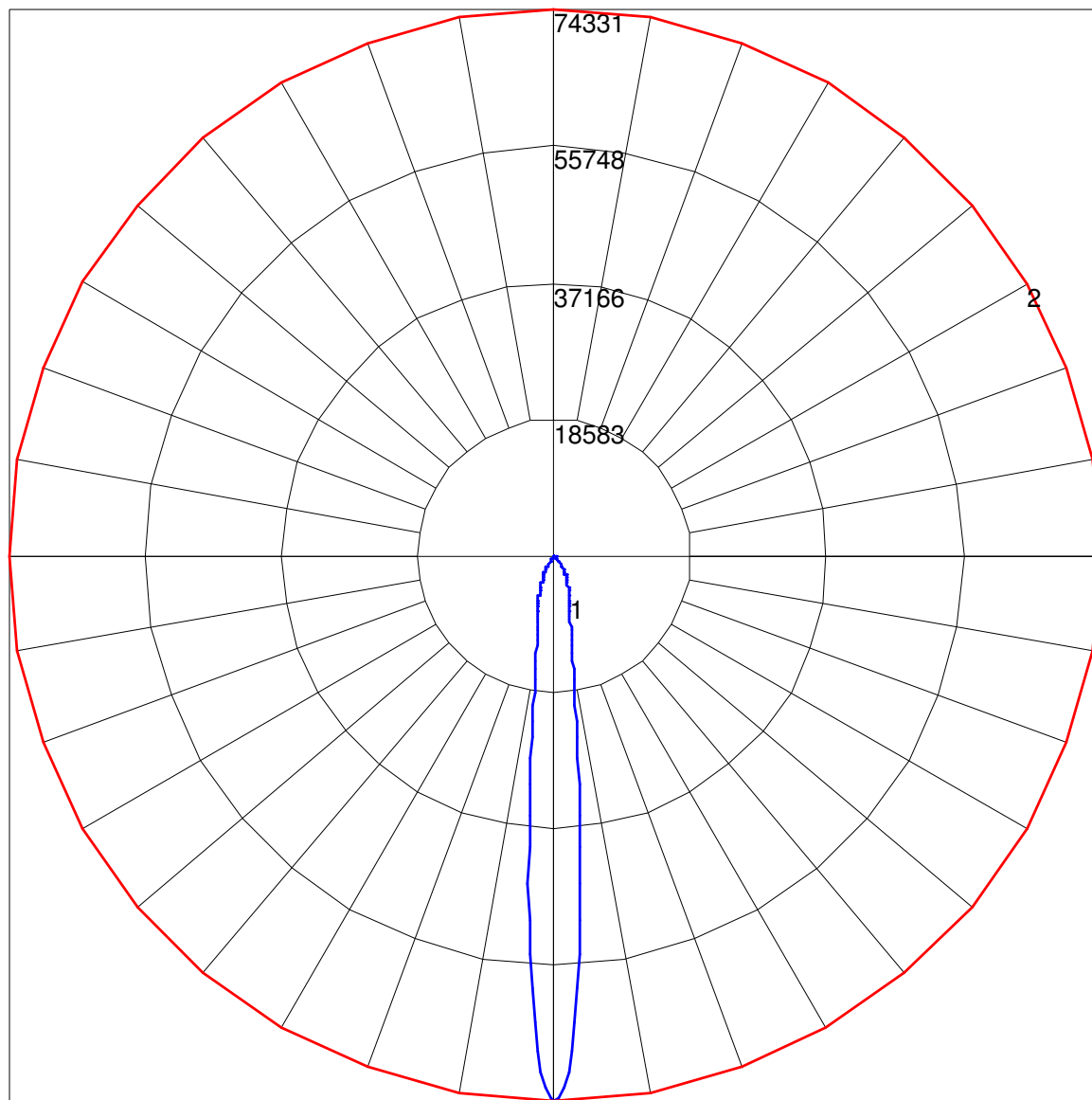
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	240	240	240	240	234	234	234	234	224	224	224	214	214	214	205	205	205	201
1	231	227	223	219	226	222	219	216	214	212	209	207	205	203	200	199	197	194
2	223	215	209	204	219	212	206	202	206	201	197	200	196	193	195	192	189	186
3	215	205	198	192	212	203	196	190	198	192	187	193	188	184	189	185	182	179
4	208	197	188	182	205	195	187	181	190	184	179	187	181	177	183	179	175	172
5	201	189	180	174	198	187	179	173	184	177	171	181	175	170	178	173	169	166
6	195	182	173	166	192	180	172	166	177	170	165	175	169	164	173	167	163	160
7	189	175	166	160	187	174	166	160	172	164	159	170	163	158	168	162	157	155
8	183	169	160	154	181	168	160	154	166	159	153	164	158	153	163	157	152	150
9	178	164	155	149	176	163	155	149	161	154	148	160	153	148	158	152	148	146
10	173	159	150	144	171	158	150	144	157	149	144	155	148	144	154	148	143	141

POLAR GRAPH



Maximum Candela = 74331.262 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.)