



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L70-835-DIM-LW-OF-WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from 12326812.07  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 6/1/2018  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L70-835-DIM-LW-OF-WH  
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glass  
 [MORE] s patterned lens 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	5345
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	67.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.46 ft (Diameter)
Luminous Width (90-270)	0.46 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	88852	88852	88852
55	73973	73973	73973
65	56198	56198	56198
75	40754	40754	40754
85	26558	26558	26558

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CANDELA TABULATION

	<u>0</u>
0.0	3399.967
0.5	3399.282
1.0	3396.544
1.5	3392.436
2.0	3387.302
2.5	3380.456
3.0	3373.610
3.5	3365.738
4.0	3358.549
4.5	3351.361
5.0	3346.227
5.5	3341.435
6.0	3336.985
6.5	3332.535
7.0	3327.743
7.5	3323.294
8.0	3318.844
8.5	3314.736
9.0	3310.629
9.5	3307.206
10.0	3303.783
10.5	3301.045
11.0	3298.649
11.5	3297.280
12.0	3294.884
12.5	3292.487
13.0	3289.065
13.5	3284.615
14.0	3279.138
14.5	3272.977
15.0	3266.473
15.5	3258.258
16.0	3249.359
16.5	3240.459
17.0	3231.560
17.5	3222.318
18.0	3212.392
18.5	3201.096
19.0	3188.431
19.5	3174.397
20.0	3158.310
20.5	3140.853
21.0	3119.289
21.5	3093.617
22.0	3064.522
22.5	3031.662
23.0	2995.722
23.5	2956.701
24.0	2913.572
24.5	2867.021
25.0	2816.704
25.5	2764.334
26.0	2708.541
26.5	2650.351

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**CANDELA TABULATION - (Cont.)**

27.0	2588.397
27.5	2524.731
28.0	2457.642
28.5	2386.788
29.0	2313.196
29.5	2235.838
30.0	2156.427
30.5	2074.620
31.0	1992.812
31.5	1910.320
32.0	1830.225
32.5	1753.552
33.0	1679.959
33.5	1611.159
34.0	1547.835
34.5	1490.331
35.0	1438.987
35.5	1391.751
36.0	1350.334
36.5	1312.340
37.0	1278.453
37.5	1247.989
38.0	1220.264
38.5	1194.934
39.0	1170.974
39.5	1149.410
40.0	1128.530
40.5	1109.020
41.0	1090.878
41.5	1073.079
42.0	1055.965
42.5	1040.219
43.0	1024.132
43.5	1008.386
44.0	992.983
44.5	977.923
45.0	962.519
45.5	947.801
46.0	932.740
46.5	917.679
47.0	902.276
47.5	887.216
48.0	871.813
48.5	856.410
49.0	841.007
49.5	824.919
50.0	809.516
50.5	793.771
51.0	778.025
51.5	761.938
52.0	745.850
52.5	729.762
53.0	713.675
53.5	697.587
54.0	682.184
54.5	666.439

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CANDELA TABULATION - (Cont.)

55.0	650.009
55.5	633.921
56.0	617.833
56.5	602.773
57.0	587.712
57.5	571.967
58.0	556.221
58.5	540.818
59.0	525.757
59.5	510.697
60.0	496.320
60.5	481.944
61.0	467.910
61.5	453.877
62.0	440.527
62.5	427.178
63.0	414.171
63.5	401.164
64.0	388.499
64.5	376.177
65.0	363.854
65.5	351.874
66.0	339.928
66.5	328.188
67.0	316.584
67.5	305.220
68.0	294.061
68.5	282.868
69.0	272.018
69.5	261.270
70.0	250.830
70.5	240.733
71.0	230.840
71.5	221.256
72.0	212.014
72.5	203.046
73.0	194.318
73.5	185.761
74.0	177.546
74.5	169.502
75.0	161.595
75.5	153.962
76.0	146.466
76.5	139.107
77.0	131.953
77.5	124.936
78.0	118.124
78.5	111.450
79.0	104.912
79.5	98.614
80.0	92.350
80.5	86.291
81.0	80.301
81.5	74.345
82.0	68.526
82.5	62.742

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CANDELA TABULATION - (Cont.)

83.0	57.094
83.5	51.549
84.0	46.072
84.5	40.698
85.0	35.461
85.5	30.395
86.0	25.501
86.5	20.777
87.0	16.190
87.5	12.357
88.0	9.447
88.5	6.914
89.0	4.792
89.5	3.012
90.0	1.917
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
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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
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124.5	0.000
125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
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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
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149.5	0.000
150.0	0.000
150.5	0.000
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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
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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	1238.5	N.A.	23.20
0-30	2503.51	N.A.	46.80
0-40	3441.52	N.A.	64.40
0-60	4765.98	N.A.	89.20
0-80	5302.46	N.A.	99.20
0-90	5344.85	N.A.	100.00
10-90	5026.68	N.A.	94.00
20-40	2203.02	N.A.	41.20
20-50	2946.32	N.A.	55.10
40-70	1687.15	N.A.	31.60
60-80	536.47	N.A.	10.00
70-80	173.78	N.A.	3.30
80-90	42.39	N.A.	0.80
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5344.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	318.17
10-20	920.33
20-30	1265.01
30-40	938.02
40-50	743.29
50-60	581.17
60-70	362.69
70-80	173.78
80-90	42.39
90-100	0.05
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

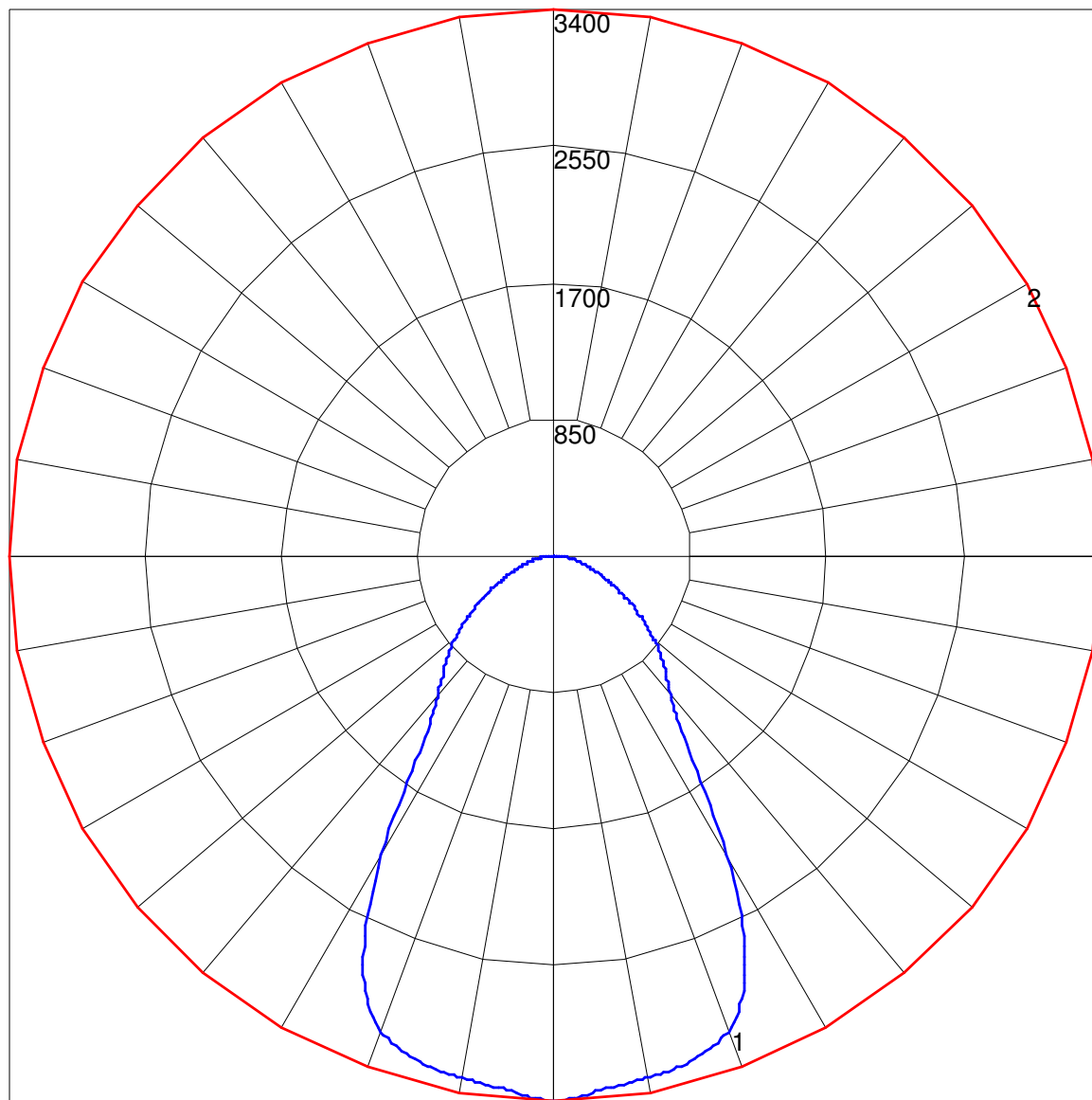
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	407	407	407	407	398	398	398	398	380	380	380	364	364	364	349	349	349	342
1	380	367	355	344	371	359	348	339	345	336	328	332	325	318	320	314	309	302
2	352	329	310	294	344	323	306	291	311	297	284	301	289	278	291	281	272	265
3	327	297	274	256	319	292	271	254	282	264	249	274	258	245	265	252	241	235
4	304	270	245	225	297	266	242	224	258	237	221	250	233	218	243	228	216	209
5	284	247	220	201	277	243	218	200	236	215	198	230	211	196	224	207	194	188
6	266	226	200	181	260	223	198	180	218	195	179	212	193	178	207	190	176	170
7	249	209	183	165	244	206	182	164	201	179	163	197	177	162	192	175	161	155
8	234	194	168	151	229	191	167	150	187	165	149	183	163	149	179	161	148	142
9	221	180	155	139	216	178	154	138	175	153	138	171	151	137	168	150	136	131
10	208	168	144	128	204	167	143	128	163	142	127	160	141	127	158	140	127	121

POLAR GRAPH



Maximum Candela = 3399.967 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.)