



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6DR-TL-L15-840-DIM-UNV-OW-OF-CS.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] GEN FROM 12326812.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 5/31/2018  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L15-840-DIM-UNV-OW-OF-CS  
 [LUMINAIRE] Black formed aluminum housing, specular reflector, no lens  
 [MORE] enclosure  
 [LAMP] One white LED  
 [BALLAST] Philips XI025C070V054DSM5  
 [OTHER] 24.4 C, 120.066 V, 13.8 W, 0.994105 PF, 59.9708  
 [MORE] Hz  
 [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	1511
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	13.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.94
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	3872	3872	3872
55	1889	1889	1889
65	720	720	720
75	290	290	290
85	191	191	191

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CANDELA TABULATION

	<u>0</u>
0.0	1839.677
0.5	1828.264
1.0	1800.114
1.5	1758.268
2.0	1704.250
2.5	1647.949
3.0	1590.887
3.5	1534.586
4.0	1472.198
4.5	1414.375
5.0	1374.812
5.5	1344.379
6.0	1322.315
6.5	1307.860
7.0	1298.730
7.5	1295.686
8.0	1296.447
8.5	1298.730
9.0	1304.816
9.5	1310.903
10.0	1318.511
10.5	1325.359
11.0	1330.684
11.5	1333.728
12.0	1332.206
12.5	1327.641
13.0	1319.272
13.5	1309.381
14.0	1297.969
14.5	1288.839
15.0	1280.470
15.5	1272.101
16.0	1266.775
16.5	1264.493
17.0	1266.014
17.5	1268.297
18.0	1272.101
18.5	1275.905
19.0	1278.948
19.5	1281.991
20.0	1282.752
20.5	1283.513
21.0	1285.035
21.5	1286.556
22.0	1288.839
22.5	1291.882
23.0	1296.447
23.5	1302.534
24.0	1309.381
24.5	1316.989
25.0	1324.598
25.5	1332.206
26.0	1339.814
26.5	1347.423

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**CANDELA TABULATION - (Cont.)**

27.0	1353.509
27.5	1356.552
28.0	1354.270
28.5	1347.423
29.0	1336.771
29.5	1321.554
30.0	1294.165
30.5	1251.558
31.0	1192.214
31.5	1120.696
32.0	1039.288
32.5	950.271
33.0	853.647
33.5	750.326
34.0	648.224
34.5	551.142
35.0	461.897
35.5	381.478
36.0	309.276
36.5	251.073
37.0	206.945
37.5	176.436
38.0	151.024
38.5	127.590
39.0	108.722
39.5	95.027
40.0	85.365
40.5	78.745
41.0	73.648
41.5	69.463
42.0	65.811
42.5	62.540
43.0	59.573
43.5	56.910
44.0	54.399
44.5	52.117
45.0	49.986
45.5	47.932
46.0	46.030
46.5	44.204
47.0	42.454
47.5	40.780
48.0	39.183
48.5	37.585
49.0	36.063
49.5	34.618
50.0	33.096
50.5	31.650
51.0	30.205
51.5	28.759
52.0	27.466
52.5	26.020
53.0	24.727
53.5	23.433
54.0	22.216
54.5	20.923

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**CANDELA TABULATION - (Cont.)**

55.0	19.781
55.5	18.716
56.0	17.651
56.5	16.510
57.0	15.597
57.5	14.684
58.0	13.771
58.5	12.934
59.0	12.173
59.5	11.412
60.0	10.728
60.5	10.043
61.0	9.434
61.5	8.826
62.0	8.293
62.5	7.684
63.0	7.228
63.5	6.771
64.0	6.315
64.5	5.934
65.0	5.554
65.5	5.174
66.0	4.793
66.5	4.489
67.0	4.185
67.5	3.880
68.0	3.652
68.5	3.348
69.0	3.119
69.5	2.891
70.0	2.739
70.5	2.511
71.0	2.359
71.5	2.206
72.0	2.054
72.5	1.902
73.0	1.750
73.5	1.598
74.0	1.522
74.5	1.446
75.0	1.369
75.5	1.217
76.0	1.065
76.5	1.065
77.0	0.989
77.5	0.913
78.0	0.837
78.5	0.761
79.0	0.685
79.5	0.685
80.0	0.609
80.5	0.609
81.0	0.533
81.5	0.533
82.0	0.456
82.5	0.380

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CANDELA TABULATION - (Cont.)

83.0	0.380
83.5	0.380
84.0	0.304
84.5	0.304
85.0	0.304
85.5	0.304
86.0	0.228
86.5	0.228
87.0	0.228
87.5	0.152
88.0	0.228
88.5	0.152
89.0	0.152
89.5	0.152
90.0	0.152
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	496.69	N.A.	32.90
0-30	1107.87	N.A.	73.30
0-40	1445.29	N.A.	95.60
0-60	1503.68	N.A.	99.50
0-80	1511.00	N.A.	100.00
0-90	1511.35	N.A.	100.00
10-90	1380.51	N.A.	91.30
20-40	948.61	N.A.	62.80
20-50	988.78	N.A.	65.40
40-70	64.21	N.A.	4.20
60-80	7.33	N.A.	0.50
70-80	1.50	N.A.	0.10
80-90	0.35	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	1511.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	130.84
10-20	365.85
20-30	611.18
30-40	337.42
40-50	40.18
50-60	18.21
60-70	5.82
70-80	1.50
80-90	0.35
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

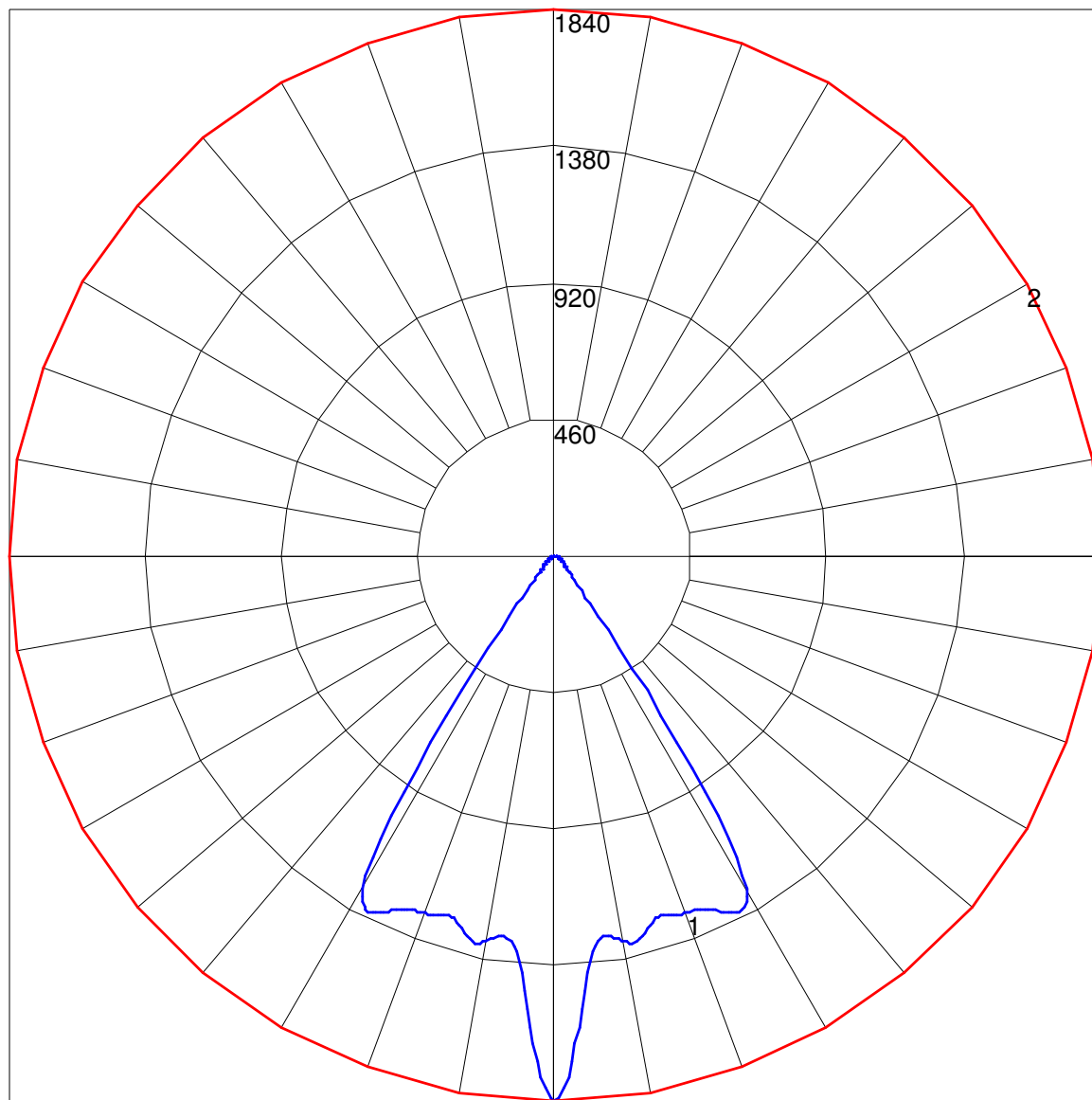
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	66	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

POLAR GRAPH



Maximum Candela = 1839.677 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.)