



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-840-EM7W-DIM1-UNV-OM-OF-CS\_(EMER MODE).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12326812.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 08-22-2023  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L10-840-EM7W-DIM1-UNV-OM-OF-CS  
 [LUMINAIRE] Black formed aluminum housing, specular reflector, no lens  
 [MORE] enclosure  
 [LAMP] One white LED  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight  
 [\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	798
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.68
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	1440	1440	1440
55	530	530	530
65	209	209	209
75	94	94	94
85	76	76	76

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## CANDELA TABULATION

	<u>0</u>
0.0	1614.946
0.5	1617.361
1.0	1622.190
1.5	1625.007
2.0	1631.848
2.5	1634.665
3.0	1639.494
3.5	1640.702
4.0	1637.080
4.5	1617.763
5.0	1598.447
5.5	1577.923
6.0	1544.924
6.5	1511.925
7.0	1476.913
7.5	1437.475
8.0	1391.598
8.5	1344.514
9.0	1295.820
9.5	1248.334
10.0	1204.469
10.5	1165.836
11.0	1132.434
11.5	1103.862
12.0	1075.692
12.5	1047.924
13.0	1021.364
13.5	996.413
14.0	973.877
14.5	953.756
15.0	935.647
15.5	918.342
16.0	901.440
16.5	883.733
17.0	865.624
17.5	847.515
18.0	831.015
18.5	816.528
19.0	801.638
19.5	786.346
20.0	769.444
20.5	751.334
21.0	732.823
21.5	713.908
22.0	693.787
22.5	674.470
23.0	653.947
23.5	633.020
24.0	611.289
24.5	589.558
25.0	568.229
25.5	546.901
26.0	527.182
26.5	508.267

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L10-840-EM7W-DIM1-UNV-OM-OF-CS\_(EMER MODE).IES****CANDELA TABULATION - (Cont.)**

27.0	490.561
27.5	473.659
28.0	458.366
28.5	444.684
29.0	431.806
29.5	419.331
30.0	403.636
30.5	383.997
31.0	361.461
31.5	336.672
32.0	311.520
32.5	286.207
33.0	260.895
33.5	234.334
34.0	207.371
34.5	182.783
35.0	159.161
35.5	136.866
36.0	115.417
36.5	96.221
37.0	80.486
37.5	69.419
38.0	63.463
38.5	59.439
39.0	55.414
39.5	51.149
40.0	46.601
40.5	41.772
41.0	37.144
41.5	32.838
42.0	29.176
42.5	26.279
43.0	24.025
43.5	22.295
44.0	20.846
44.5	19.679
45.0	18.592
45.5	17.667
46.0	16.781
46.5	15.976
47.0	15.172
47.5	14.407
48.0	13.642
48.5	12.878
49.0	12.113
49.5	11.429
50.0	10.785
50.5	10.141
51.0	9.538
51.5	8.934
52.0	8.330
52.5	7.807
53.0	7.284
53.5	6.801
54.0	6.358
54.5	5.956

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L10-840-EM7W-DIM1-UNV-OM-OF-CS\_(EMER MODE).IES****CANDELA TABULATION - (Cont.)**

55.0	5.554
55.5	5.232
56.0	4.869
56.5	4.588
57.0	4.306
57.5	4.024
58.0	3.783
58.5	3.541
59.0	3.340
59.5	3.139
60.0	2.938
60.5	2.737
61.0	2.576
61.5	2.415
62.0	2.294
62.5	2.173
63.0	2.012
63.5	1.932
64.0	1.811
64.5	1.690
65.0	1.610
65.5	1.489
66.0	1.409
66.5	1.328
67.0	1.248
67.5	1.167
68.0	1.127
68.5	1.046
69.0	0.966
69.5	0.926
70.0	0.885
70.5	0.805
71.0	0.765
71.5	0.724
72.0	0.684
72.5	0.644
73.0	0.604
73.5	0.563
74.0	0.523
74.5	0.483
75.0	0.443
75.5	0.443
76.0	0.402
76.5	0.362
77.0	0.362
77.5	0.322
78.0	0.322
78.5	0.282
79.0	0.282
79.5	0.241
80.0	0.241
80.5	0.201
81.0	0.201
81.5	0.201
82.0	0.161
82.5	0.161

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83.0	0.161
83.5	0.121
84.0	0.121
84.5	0.121
85.0	0.121
85.5	0.080
86.0	0.080
86.5	0.080
87.0	0.080
87.5	0.080
88.0	0.040
88.5	0.040
89.0	0.040
89.5	0.040
90.0	0.040
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L10-840-EM7W-DIM1-UNV-OM-OF-CS\_(EMER MODE).IES****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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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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Zone	Lumens	%Lamp	%Fixt
0-20	402.74	N.A.	50.50
0-30	663.61	N.A.	83.20
0-40	774.01	N.A.	97.00
0-60	795.70	N.A.	99.70
0-80	797.88	N.A.	100.00
0-90	798.01	N.A.	100.00
10-90	658.86	N.A.	82.60
20-40	371.27	N.A.	46.50
20-50	387.63	N.A.	48.60
40-70	23.36	N.A.	2.90
60-80	2.18	N.A.	0.30
70-80	0.52	N.A.	0.10
80-90	0.12	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	798.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	139.15
10-20	263.59
20-30	260.88
30-40	110.39
40-50	16.36
50-60	5.33
60-70	1.67
70-80	0.52
80-90	0.12
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

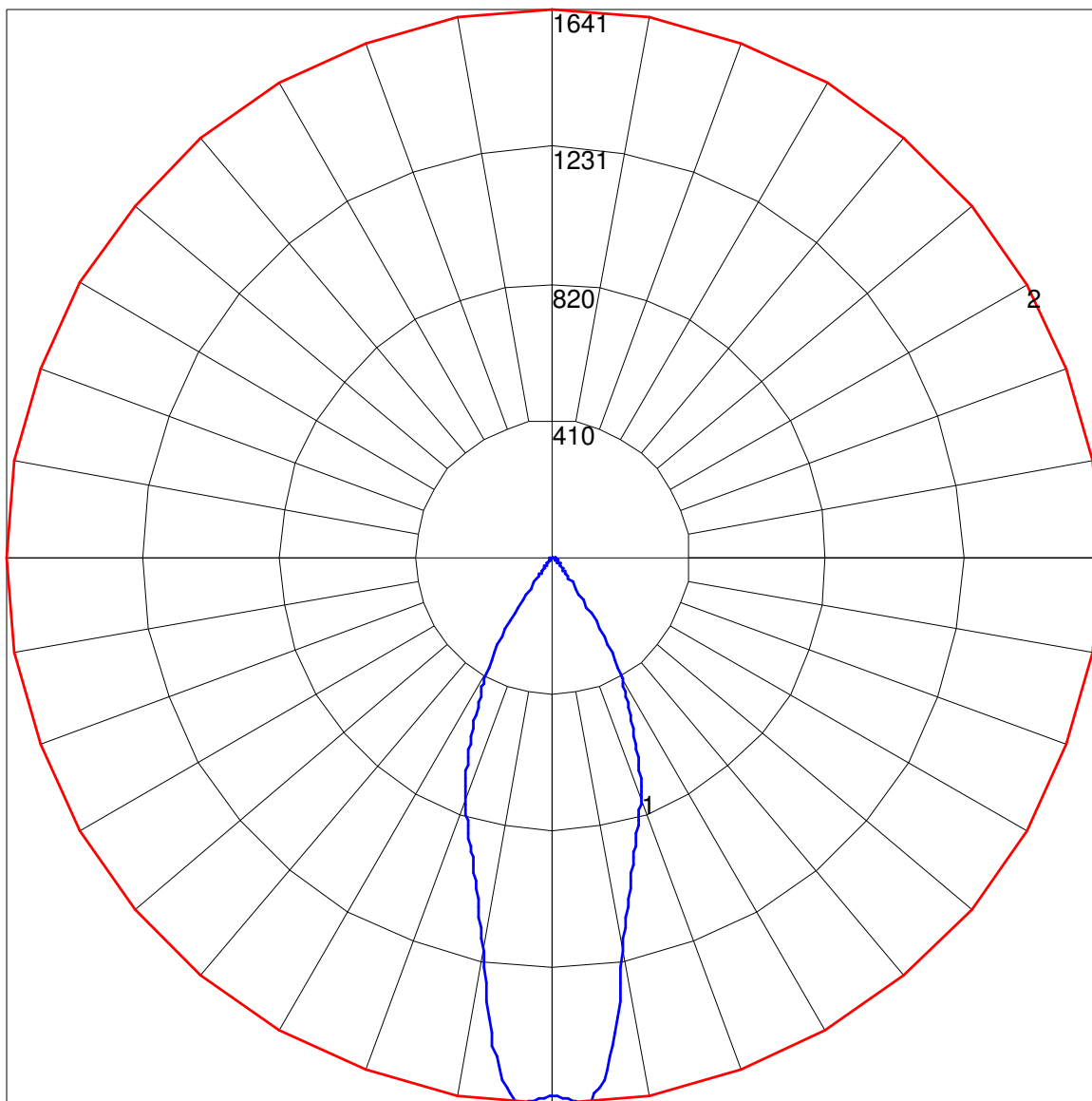
Effective Floor Cavity Reflectance 0.20

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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	88	84	98	92	88	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	75	73	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	75	72	69	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	62
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

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## POLAR GRAPH



Maximum Candela = 1640.702 Located At Horizontal Angle = 0, Vertical Angle = 3.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)