



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-840-(L12)-DIM-UNV-OM-OF-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 12326812.04  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 11/08/2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L15-840-(L12)-DIM-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	1217
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	10.7
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	2196	2196	2196
55	809	809	809
65	318	318	318
75	143	143	143
85	116	116	116

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CANDELA TABULATION

	<u>0</u>
0.0	2462.845
0.5	2466.527
1.0	2473.892
1.5	2478.188
2.0	2488.621
2.5	2492.917
3.0	2500.281
3.5	2502.123
4.0	2496.599
4.5	2467.141
5.0	2437.682
5.5	2406.383
6.0	2356.058
6.5	2305.733
7.0	2252.340
7.5	2192.196
8.0	2122.232
8.5	2050.427
9.0	1976.167
9.5	1903.749
10.0	1836.854
10.5	1777.937
11.0	1726.999
11.5	1683.425
12.0	1640.464
12.5	1598.118
13.0	1557.613
13.5	1519.562
14.0	1485.194
14.5	1454.508
15.0	1426.891
15.5	1400.501
16.0	1374.725
16.5	1347.722
17.0	1320.104
17.5	1292.487
18.0	1267.325
18.5	1245.231
19.0	1222.523
19.5	1199.202
20.0	1173.426
20.5	1145.809
21.0	1117.578
21.5	1088.733
22.0	1058.047
22.5	1028.589
23.0	997.289
23.5	965.376
24.0	932.236
24.5	899.095
25.0	866.568
25.5	834.041
26.0	803.969
26.5	775.124

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CANDELA TABULATION - (Cont.)

27.0	748.121
27.5	722.344
28.0	699.023
28.5	678.157
29.0	658.518
29.5	639.493
30.0	615.558
30.5	585.608
31.0	551.240
31.5	513.435
32.0	475.078
32.5	436.475
33.0	397.872
33.5	357.367
34.0	316.248
34.5	278.750
35.0	242.725
35.5	208.725
36.0	176.014
36.5	146.740
37.0	122.743
37.5	105.866
38.0	96.783
38.5	90.646
39.0	84.509
39.5	78.003
40.0	71.068
40.5	63.704
41.0	56.646
41.5	50.079
42.0	44.494
42.5	40.076
43.0	36.639
43.5	34.000
44.0	31.791
44.5	30.011
45.0	28.354
45.5	26.942
46.0	25.592
46.5	24.365
47.0	23.137
47.5	21.971
48.0	20.805
48.5	19.639
49.0	18.473
49.5	17.430
50.0	16.448
50.5	15.466
51.0	14.545
51.5	13.625
52.0	12.704
52.5	11.906
53.0	11.108
53.5	10.372
54.0	9.697
54.5	9.083

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CANDELA TABULATION - (Cont.)

55.0	8.469
55.5	7.978
56.0	7.426
56.5	6.996
57.0	6.567
57.5	6.137
58.0	5.769
58.5	5.401
59.0	5.094
59.5	4.787
60.0	4.480
60.5	4.173
61.0	3.928
61.5	3.682
62.0	3.498
62.5	3.314
63.0	3.069
63.5	2.946
64.0	2.762
64.5	2.578
65.0	2.455
65.5	2.271
66.0	2.148
66.5	2.025
67.0	1.903
67.5	1.780
68.0	1.718
68.5	1.596
69.0	1.473
69.5	1.412
70.0	1.350
70.5	1.227
71.0	1.166
71.5	1.105
72.0	1.043
72.5	0.982
73.0	0.921
73.5	0.859
74.0	0.798
74.5	0.736
75.0	0.675
75.5	0.675
76.0	0.614
76.5	0.552
77.0	0.552
77.5	0.491
78.0	0.491
78.5	0.430
79.0	0.430
79.5	0.368
80.0	0.368
80.5	0.307
81.0	0.307
81.5	0.307
82.0	0.245
82.5	0.245

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CANDELA TABULATION - (Cont.)

83.0	0.245
83.5	0.184
84.0	0.184
84.5	0.184
85.0	0.184
85.5	0.123
86.0	0.123
86.5	0.123
87.0	0.123
87.5	0.123
88.0	0.061
88.5	0.061
89.0	0.061
89.5	0.061
90.0	0.061
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6DR-TL-L15-840-(L12)-DIM-UNV-OM-OF-CS\_.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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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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L15-840-(L12)-DIM-UNV-OM-OF-CS\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	614.19	N.A.	50.50
0-30	1012.03	N.A.	83.20
0-40	1180.38	N.A.	97.00
0-60	1213.47	N.A.	99.70
0-80	1216.8	N.A.	100.00
0-90	1216.99	N.A.	100.00
10-90	1004.78	N.A.	82.60
20-40	566.20	N.A.	46.50
20-50	591.15	N.A.	48.60
40-70	35.63	N.A.	2.90
60-80	3.33	N.A.	0.30
70-80	0.79	N.A.	0.10
80-90	0.19	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	1216.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	212.20
10-20	401.98
20-30	397.84
30-40	168.35
40-50	24.96
50-60	8.13
60-70	2.54
70-80	0.79
80-90	0.19
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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## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

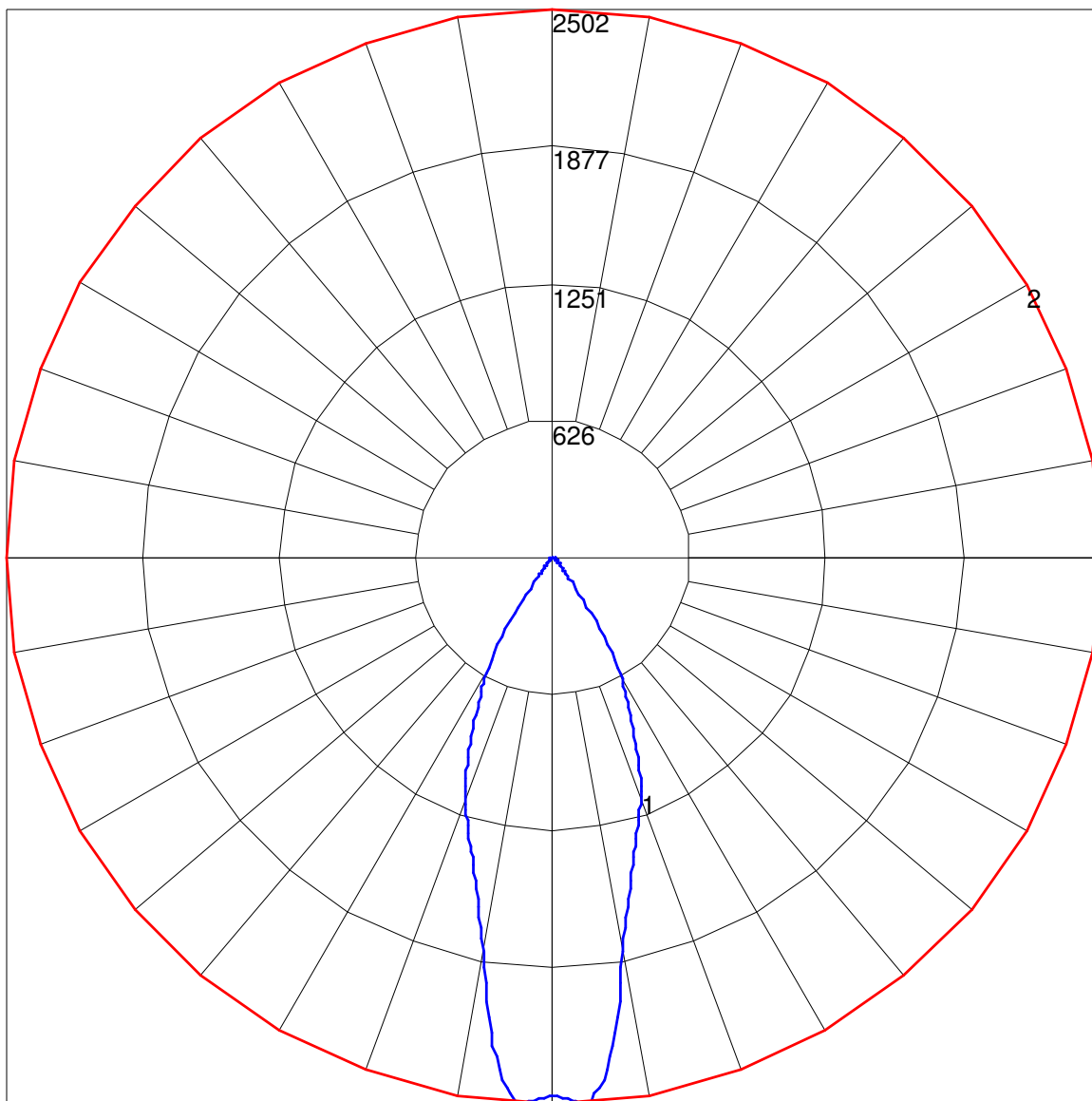
X=2H	Y=2H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	3H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	4H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	6H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	8H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	12H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

### UGR Viewed Endwise

4H	2H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	3H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	4H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	6H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	8H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	12H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
8H	4H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	6H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	8H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	12H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
12H	4H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	6H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	8H	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

Maximum UGR = 0.7

POLAR GRAPH



Maximum Candela = 2502.123 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.)