



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-840-EM10W-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-L15-840-EM10W-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	1094
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	10
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	1974	1974	1974
55	727	727	727
65	286	286	286
75	128	128	128
85	104	104	104

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CANDELA TABULATION

	<u>0</u>
0.0	2214.253
0.5	2217.564
1.0	2224.185
1.5	2228.047
2.0	2237.427
2.5	2241.290
3.0	2247.911
3.5	2249.566
4.0	2244.600
4.5	2218.115
5.0	2191.630
5.5	2163.490
6.0	2118.245
6.5	2073.000
7.0	2024.996
7.5	1970.922
8.0	1908.021
8.5	1843.463
9.0	1776.699
9.5	1711.590
10.0	1651.448
10.5	1598.478
11.0	1552.681
11.5	1513.505
12.0	1474.881
12.5	1436.809
13.0	1400.392
13.5	1366.182
14.0	1335.283
14.5	1307.695
15.0	1282.865
15.5	1259.139
16.0	1235.965
16.5	1211.687
17.0	1186.857
17.5	1162.028
18.0	1139.405
18.5	1119.541
19.0	1099.126
19.5	1078.159
20.0	1054.984
20.5	1030.155
21.0	1004.773
21.5	978.840
22.0	951.251
22.5	924.766
23.0	896.626
23.5	867.934
24.0	838.139
24.5	808.343
25.0	779.099
25.5	749.855
26.0	722.819
26.5	696.885

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L15-840-EM10W-DIM1-UNV-OM-OF-CS_(EMER MODE).IES****CANDELA TABULATION - (Cont.)**

27.0	672.608
27.5	649.433
28.0	628.466
28.5	609.706
29.0	592.049
29.5	574.944
30.0	553.425
30.5	526.499
31.0	495.600
31.5	461.611
32.0	427.125
32.5	392.419
33.0	357.712
33.5	321.296
34.0	284.327
34.5	250.614
35.0	218.225
35.5	187.657
36.0	158.248
36.5	131.928
37.0	110.354
37.5	95.180
38.0	87.014
38.5	81.496
39.0	75.979
39.5	70.130
40.0	63.895
40.5	57.274
41.0	50.928
41.5	45.024
42.0	40.003
42.5	36.031
43.0	32.941
43.5	30.568
44.0	28.582
44.5	26.982
45.0	25.492
45.5	24.223
46.0	23.009
46.5	21.905
47.0	20.802
47.5	19.753
48.0	18.705
48.5	17.657
49.0	16.608
49.5	15.670
50.0	14.787
50.5	13.905
51.0	13.077
51.5	12.249
52.0	11.422
52.5	10.704
53.0	9.987
53.5	9.325
54.0	8.718
54.5	8.166

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55.0	7.614
55.5	7.173
56.0	6.676
56.5	6.290
57.0	5.904
57.5	5.518
58.0	5.187
58.5	4.856
59.0	4.580
59.5	4.304
60.0	4.028
60.5	3.752
61.0	3.531
61.5	3.311
62.0	3.145
62.5	2.980
63.0	2.759
63.5	2.648
64.0	2.483
64.5	2.317
65.0	2.207
65.5	2.042
66.0	1.931
66.5	1.821
67.0	1.710
67.5	1.600
68.0	1.545
68.5	1.435
69.0	1.324
69.5	1.269
70.0	1.214
70.5	1.104
71.0	1.048
71.5	0.993
72.0	0.938
72.5	0.883
73.0	0.828
73.5	0.772
74.0	0.717
74.5	0.662
75.0	0.607
75.5	0.607
76.0	0.552
76.5	0.497
77.0	0.497
77.5	0.441
78.0	0.441
78.5	0.386
79.0	0.386
79.5	0.331
80.0	0.331
80.5	0.276
81.0	0.276
81.5	0.276
82.0	0.221
82.5	0.221

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L15-840-EM10W-DIM1-UNV-OM-OF-CS_(EMER MODE).IES****CANDELA TABULATION - (Cont.)**

83.0	0.221
83.5	0.166
84.0	0.166
84.5	0.166
85.0	0.166
85.5	0.110
86.0	0.110
86.5	0.110
87.0	0.110
87.5	0.110
88.0	0.055
88.5	0.055
89.0	0.055
89.5	0.055
90.0	0.055
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**PHOTOMETRIC FILENAME : 6DR-TL-L15-840-EM10W-DIM1-UNV-OM-OF-CS_(EMER MODE).IES****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-EM10W-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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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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Zone	Lumens	%Lamp	%Fixt
0-20	552.19	N.A.	50.50
0-30	909.88	N.A.	83.20
0-40	1061.24	N.A.	97.00
0-60	1090.98	N.A.	99.70
0-80	1093.98	N.A.	100.00
0-90	1094.15	N.A.	100.00
10-90	903.36	N.A.	82.60
20-40	509.05	N.A.	46.50
20-50	531.48	N.A.	48.60
40-70	32.03	N.A.	2.90
60-80	2.99	N.A.	0.30
70-80	0.71	N.A.	0.10
80-90	0.17	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	1094.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	190.79
10-20	361.41
20-30	357.69
30-40	151.36
40-50	22.44
50-60	7.31
60-70	2.29
70-80	0.71
80-90	0.17
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	93	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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	3H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	4H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	6H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	8H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	12H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

UGR Viewed Endwise

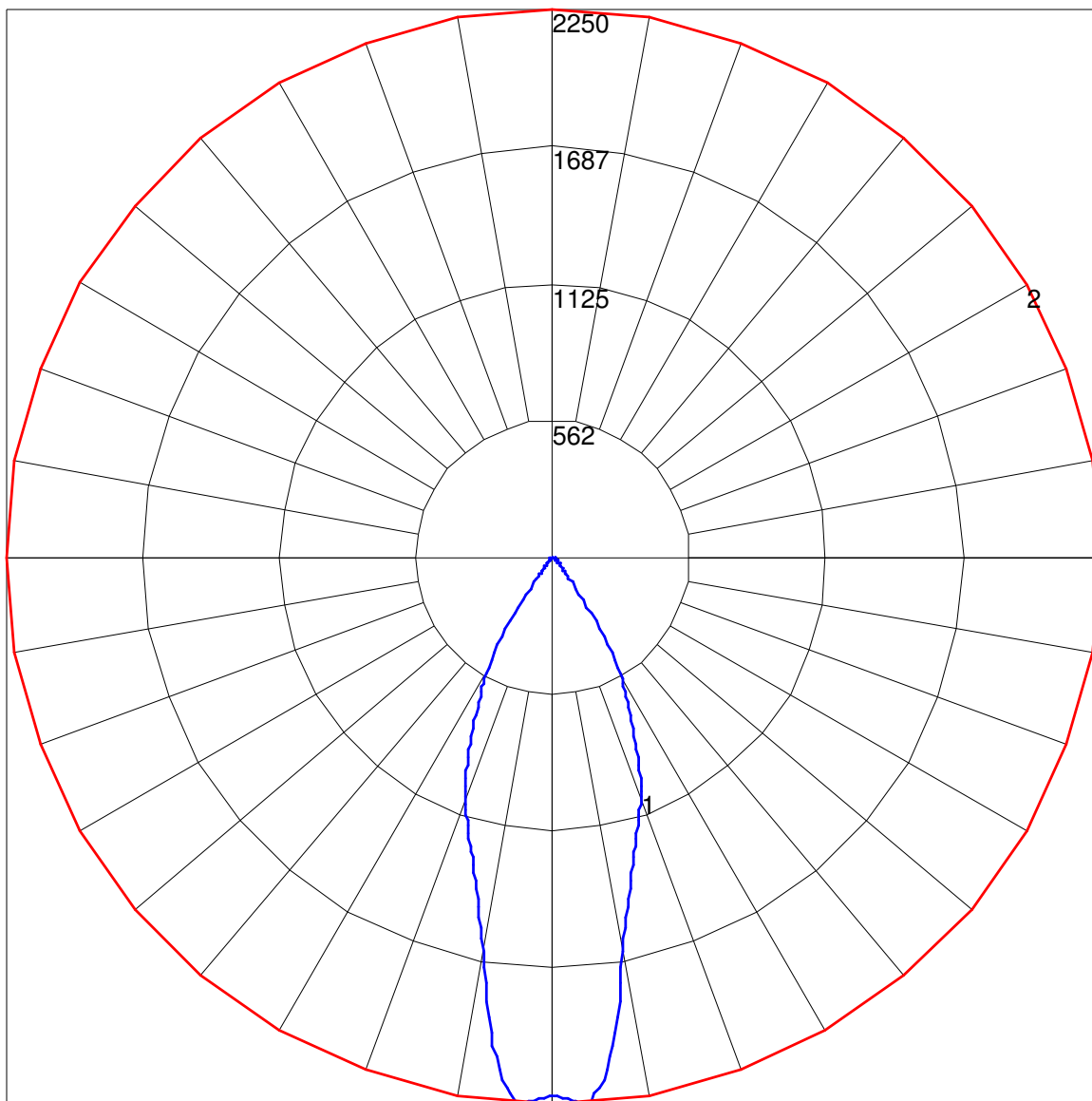
4H	2H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	3H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	4H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	6H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	8H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	12H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
8H	4H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	6H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	8H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	12H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
12H	4H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	6H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	8H	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Maximum UGR = 0.4

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POLAR GRAPH



Maximum Candela = 2249.566 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.)