



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-840-(L12)-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-(L12)-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	1140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	2057	2057	2057
55	757	757	757
65	298	298	298
75	134	134	134
85	108	108	108

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CANDELA TABULATION

	<u>0</u>
0.0	2307.020
0.5	2310.469
1.0	2317.368
1.5	2321.392
2.0	2331.165
2.5	2335.189
3.0	2342.088
3.5	2343.813
4.0	2338.639
4.5	2311.044
5.0	2283.450
5.5	2254.130
6.0	2206.990
6.5	2159.849
7.0	2109.834
7.5	2053.495
8.0	1987.958
8.5	1920.696
9.0	1851.135
9.5	1783.298
10.0	1720.636
10.5	1665.447
11.0	1617.731
11.5	1576.914
12.0	1536.672
12.5	1497.005
13.0	1459.062
13.5	1423.419
14.0	1391.226
14.5	1362.481
15.0	1336.611
15.5	1311.891
16.0	1287.746
16.5	1262.451
17.0	1236.581
17.5	1210.711
18.0	1187.141
18.5	1166.445
19.0	1145.174
19.5	1123.328
20.0	1099.183
20.5	1073.313
21.0	1046.869
21.5	1019.849
22.0	991.105
22.5	963.510
23.0	934.191
23.5	904.297
24.0	873.253
24.5	842.209
25.0	811.740
25.5	781.271
26.0	753.101
26.5	726.082

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L15-840-(L12)-EM10W-DIM1-UNV-OM-OF-CS_(EMER MODE).IES****CANDELA TABULATION - (Cont.)**

27.0	700.787
27.5	676.642
28.0	654.796
28.5	635.250
29.0	616.853
29.5	599.032
30.0	576.611
30.5	548.557
31.0	516.363
31.5	480.950
32.0	445.020
32.5	408.859
33.0	372.699
33.5	334.756
34.0	296.239
34.5	261.114
35.0	227.368
35.5	195.519
36.0	164.877
36.5	137.455
37.0	114.977
37.5	99.168
38.0	90.660
38.5	84.911
39.0	79.162
39.5	73.068
40.0	66.572
40.5	59.673
41.0	53.062
41.5	46.911
42.0	41.679
42.5	37.540
43.0	34.321
43.5	31.849
44.0	29.779
44.5	28.112
45.0	26.560
45.5	25.238
46.0	23.973
46.5	22.823
47.0	21.673
47.5	20.581
48.0	19.489
48.5	18.396
49.0	17.304
49.5	16.327
50.0	15.407
50.5	14.487
51.0	13.625
51.5	12.762
52.0	11.900
52.5	11.153
53.0	10.405
53.5	9.716
54.0	9.083
54.5	8.508

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55.0	7.933
55.5	7.474
56.0	6.956
56.5	6.554
57.0	6.151
57.5	5.749
58.0	5.404
58.5	5.059
59.0	4.772
59.5	4.484
60.0	4.197
60.5	3.909
61.0	3.679
61.5	3.449
62.0	3.277
62.5	3.104
63.0	2.874
63.5	2.759
64.0	2.587
64.5	2.415
65.0	2.300
65.5	2.127
66.0	2.012
66.5	1.897
67.0	1.782
67.5	1.667
68.0	1.610
68.5	1.495
69.0	1.380
69.5	1.322
70.0	1.265
70.5	1.150
71.0	1.092
71.5	1.035
72.0	0.977
72.5	0.920
73.0	0.862
73.5	0.805
74.0	0.747
74.5	0.690
75.0	0.632
75.5	0.632
76.0	0.575
76.5	0.517
77.0	0.517
77.5	0.460
78.0	0.460
78.5	0.402
79.0	0.402
79.5	0.345
80.0	0.345
80.5	0.287
81.0	0.287
81.5	0.287
82.0	0.230
82.5	0.230

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83.0	0.230
83.5	0.172
84.0	0.172
84.5	0.172
85.0	0.172
85.5	0.115
86.0	0.115
86.5	0.115
87.0	0.115
87.5	0.115
88.0	0.057
88.5	0.057
89.0	0.057
89.5	0.057
90.0	0.057
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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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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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	575.33	N.A.	50.50
0-30	948.00	N.A.	83.20
0-40	1105.7	N.A.	97.00
0-60	1136.69	N.A.	99.70
0-80	1139.81	N.A.	100.00
0-90	1139.99	N.A.	100.00
10-90	941.21	N.A.	82.60
20-40	530.37	N.A.	46.50
20-50	553.75	N.A.	48.60
40-70	33.37	N.A.	2.90
60-80	3.12	N.A.	0.30
70-80	0.74	N.A.	0.10
80-90	0.18	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	1139.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.78
10-20	376.55
20-30	372.67
30-40	157.70
40-50	23.38
50-60	7.61
60-70	2.38
70-80	0.74
80-90	0.18
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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	3H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	4H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	6H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	8H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	12H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

UGR Viewed Endwise

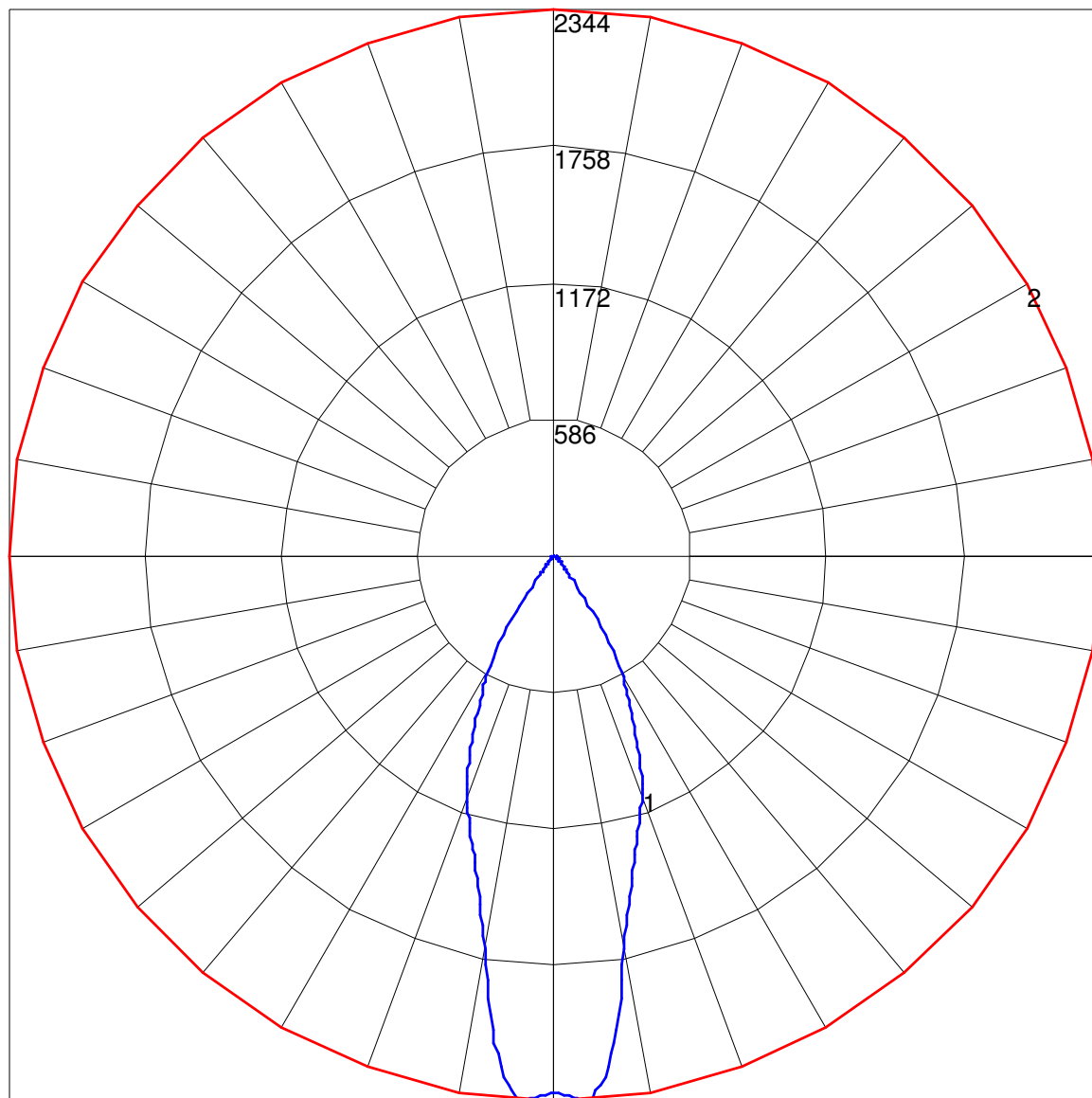
4H	2H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	3H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	4H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	6H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	8H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	12H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
8H	4H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	6H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	8H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	12H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
12H	4H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	6H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	8H	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Maximum UGR = 0.5

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POLAR GRAPH



Maximum Candela = 2343.813 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.)