



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-840-EM7W-DIM-UNV-LW-OF-CS_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM 12326812.07
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 02-20-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L10-840-EM7W-DIM-UNV-LW-OF-CS
 [LUMINAIRE] Black formed aluminum housing, CS reflector, clear glass
 [MORE] s patterned lens 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	630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.46 ft (Diameter)
Luminous Width (90-270)	0.46 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	10470	10470	10470
55	8716	8716	8716
65	6622	6622	6622
75	4802	4802	4802
85	3129	3129	3129

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CANDELA TABULATION

	<u>0</u>
0.0	400.627
0.5	400.546
1.0	400.223
1.5	399.739
2.0	399.134
2.5	398.328
3.0	397.521
3.5	396.594
4.0	395.747
4.5	394.900
5.0	394.295
5.5	393.730
6.0	393.206
6.5	392.681
7.0	392.117
7.5	391.592
8.0	391.068
8.5	390.584
9.0	390.100
9.5	389.697
10.0	389.293
10.5	388.971
11.0	388.688
11.5	388.527
12.0	388.245
12.5	387.962
13.0	387.559
13.5	387.035
14.0	386.389
14.5	385.663
15.0	384.897
15.5	383.929
16.0	382.880
16.5	381.832
17.0	380.783
17.5	379.694
18.0	378.524
18.5	377.193
19.0	375.701
19.5	374.047
20.0	372.152
20.5	370.095
21.0	367.554
21.5	364.529
22.0	361.101
22.5	357.229
23.0	352.994
23.5	348.396
24.0	343.314
24.5	337.828
25.0	331.900
25.5	325.729
26.0	319.154
26.5	312.298

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L10-840-EM7W-DIM-UNV-LW-OF-CS_(EMER MODE).IES****CANDELA TABULATION - (Cont.)**

27.0	304.997
27.5	297.496
28.0	289.590
28.5	281.241
29.0	272.570
29.5	263.455
30.0	254.097
30.5	244.458
31.0	234.818
31.5	225.098
32.0	215.660
32.5	206.625
33.0	197.954
33.5	189.847
34.0	182.385
34.5	175.609
35.0	169.560
35.5	163.994
36.0	159.113
36.5	154.636
37.0	150.643
37.5	147.054
38.0	143.787
38.5	140.802
39.0	137.979
39.5	135.438
40.0	132.978
40.5	130.679
41.0	128.541
41.5	126.444
42.0	124.427
42.5	122.572
43.0	120.676
43.5	118.821
44.0	117.006
44.5	115.231
45.0	113.416
45.5	111.682
46.0	109.907
46.5	108.133
47.0	106.318
47.5	104.543
48.0	102.728
48.5	100.913
49.0	99.098
49.5	97.202
50.0	95.387
50.5	93.532
51.0	91.677
51.5	89.781
52.0	87.885
52.5	85.990
53.0	84.094
53.5	82.198
54.0	80.383
54.5	78.528

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55.0	76.592
55.5	74.697
56.0	72.801
56.5	71.026
57.0	69.252
57.5	67.396
58.0	65.541
58.5	63.726
59.0	61.951
59.5	60.177
60.0	58.483
60.5	56.789
61.0	55.135
61.5	53.481
62.0	51.908
62.5	50.335
63.0	48.803
63.5	47.270
64.0	45.778
64.5	44.326
65.0	42.874
65.5	41.462
66.0	40.055
66.5	38.671
67.0	37.304
67.5	35.965
68.0	34.650
68.5	33.331
69.0	32.053
69.5	30.786
70.0	29.556
70.5	28.366
71.0	27.201
71.5	26.071
72.0	24.982
72.5	23.925
73.0	22.897
73.5	21.889
74.0	20.921
74.5	19.973
75.0	19.041
75.5	18.142
76.0	17.258
76.5	16.391
77.0	15.548
77.5	14.722
78.0	13.919
78.5	13.132
79.0	12.362
79.5	11.620
80.0	10.882
80.5	10.168
81.0	9.462
81.5	8.760
82.0	8.075
82.5	7.393

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83.0	6.728
83.5	6.074
84.0	5.429
84.5	4.796
85.0	4.178
85.5	3.582
86.0	3.005
86.5	2.448
87.0	1.908
87.5	1.456
88.0	1.113
88.5	0.815
89.0	0.565
89.5	0.355
90.0	0.226
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-L10-840-EM7W-DIM-UNV-LW-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

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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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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	145.94	N.A.	23.20
0-30	294.99	N.A.	46.80
0-40	405.52	N.A.	64.40
0-60	561.59	N.A.	89.20
0-80	624.80	N.A.	99.20
0-90	629.80	N.A.	100.00
10-90	592.31	N.A.	94.00
20-40	259.59	N.A.	41.20
20-50	347.17	N.A.	55.10
40-70	198.80	N.A.	31.60
60-80	63.21	N.A.	10.00
70-80	20.48	N.A.	3.30
80-90	5.00	N.A.	0.80
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	629.80	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.49
10-20	108.45
20-30	149.06
30-40	110.53
40-50	87.58
50-60	68.48
60-70	42.74
70-80	20.48
80-90	5.00
90-100	0.01
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	77	74	70	69
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35

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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	17.4	18.8	17.8	19.1	19.4	17.4	18.8	17.8	19.1	19.4
	3H	18.6	19.9	19.0	20.2	20.5	18.6	19.9	19.0	20.2	20.5
	4H	19.0	20.2	19.4	20.5	20.9	19.0	20.2	19.4	20.5	20.9
	6H	19.3	20.3	19.7	20.7	21.1	19.3	20.3	19.7	20.7	21.1
	8H	19.4	20.4	19.8	20.8	21.2	19.4	20.4	19.8	20.8	21.2
	12H	19.4	20.4	19.8	20.7	21.2	19.4	20.4	19.8	20.7	21.2

UGR Viewed Endwise

4H	2H	17.8	19.0	18.2	19.3	19.7	17.8	19.0	18.2	19.3	19.7
	3H	19.2	20.2	19.6	20.6	21.0	19.2	20.2	19.6	20.6	21.0
	4H	19.7	20.6	20.2	21.0	21.4	19.7	20.6	20.2	21.0	21.4
	6H	20.1	20.8	20.6	21.3	21.7	20.1	20.8	20.6	21.3	21.7
	8H	20.2	20.9	20.6	21.3	21.8	20.2	20.9	20.6	21.3	21.8
	12H	20.3	20.9	20.7	21.4	21.8	20.3	20.9	20.7	21.4	21.8

8H	4H	19.9	20.6	20.3	21.0	21.5	19.9	20.6	20.3	21.0	21.5
	6H	20.3	20.9	20.8	21.4	21.9	20.3	20.9	20.8	21.4	21.9
	8H	20.5	21.0	21.0	21.5	22.0	20.5	21.0	21.0	21.5	22.0
	12H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1

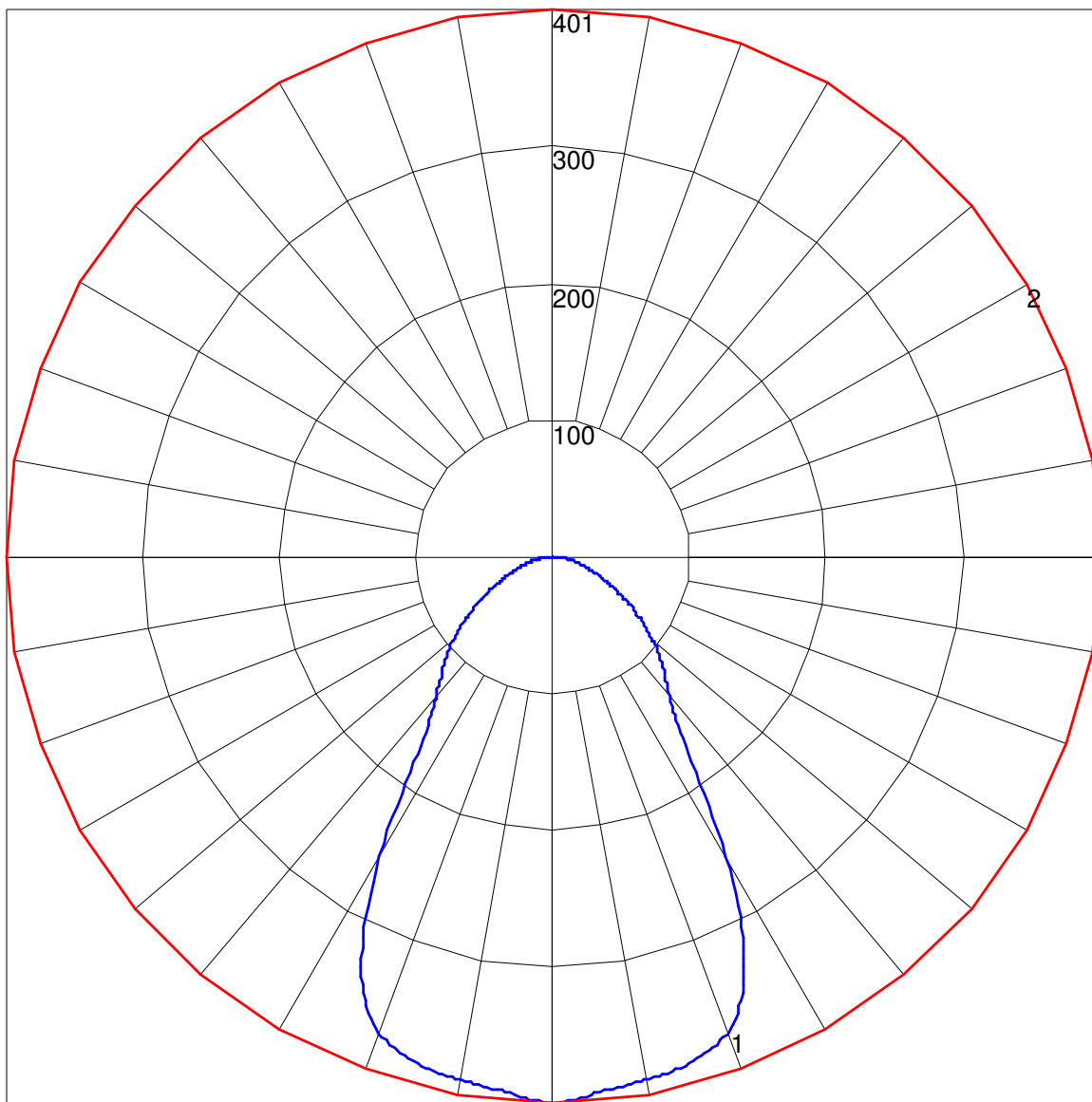
12H	4H	19.9	20.5	20.4	21.0	21.4	19.9	20.5	20.4	21.0	21.4
	6H	20.4	20.9	20.9	21.3	21.9	20.4	20.9	20.9	21.3	21.9
	8H	20.6	21.0	21.1	21.5	22.1	20.6	21.0	21.1	21.5	22.1

Maximum UGR = 22.1

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POLAR GRAPH



Maximum Candela = 400.627 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.)