



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-840-EM7W-DIM-UNV-LW-OF-WH-WETCC_EMER MODE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 12326812.07
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 03-06-2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L40-840-EMBSL17C-C2ST-1-DIM-UNV-LW-OF-WH-WETCC
 [LUMINAIRE] Black formed aluminum housing, white 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	605
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
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	10050	10050	10050
55	8367	8367	8367
65	6356	6356	6356
75	4609	4609	4609
85	3004	3004	3004

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CANDELA TABULATION

	<u>0</u>
0.0	384.555
0.5	384.478
1.0	384.168
1.5	383.704
2.0	383.123
2.5	382.349
3.0	381.574
3.5	380.684
4.0	379.871
4.5	379.058
5.0	378.477
5.5	377.935
6.0	377.432
6.5	376.928
7.0	376.386
7.5	375.883
8.0	375.380
8.5	374.915
9.0	374.451
9.5	374.064
10.0	373.676
10.5	373.367
11.0	373.096
11.5	372.941
12.0	372.670
12.5	372.399
13.0	372.012
13.5	371.508
14.0	370.889
14.5	370.192
15.0	369.456
15.5	368.527
16.0	367.521
16.5	366.514
17.0	365.508
17.5	364.462
18.0	363.340
18.5	362.062
19.0	360.629
19.5	359.042
20.0	357.223
20.5	355.248
21.0	352.809
21.5	349.905
22.0	346.615
22.5	342.898
23.0	338.833
23.5	334.419
24.0	329.541
24.5	324.276
25.0	318.585
25.5	312.662
26.0	306.351
26.5	299.770

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L40-840-EM7W-DIM-UNV-LW-OF-WH-WETCC_EMER MODE_.IES****CANDELA TABULATION - (Cont.)**

27.0	292.762
27.5	285.561
28.0	277.973
28.5	269.959
29.0	261.635
29.5	252.886
30.0	243.904
30.5	234.651
31.0	225.398
31.5	216.068
32.0	207.009
32.5	198.337
33.0	190.013
33.5	182.231
34.0	175.069
34.5	168.565
35.0	162.758
35.5	157.415
36.0	152.730
36.5	148.433
37.0	144.600
37.5	141.155
38.0	138.019
38.5	135.154
39.0	132.444
39.5	130.005
40.0	127.643
40.5	125.436
41.0	123.384
41.5	121.371
42.0	119.436
42.5	117.655
43.0	115.835
43.5	114.054
44.0	112.312
44.5	110.609
45.0	108.866
45.5	107.202
46.0	105.498
46.5	103.795
47.0	102.053
47.5	100.349
48.0	98.607
48.5	96.865
49.0	95.123
49.5	93.303
50.0	91.561
50.5	89.780
51.0	87.999
51.5	86.179
52.0	84.360
52.5	82.540
53.0	80.721
53.5	78.901
54.0	77.159
54.5	75.378

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55.0	73.520
55.5	71.700
56.0	69.880
56.5	68.177
57.0	66.474
57.5	64.693
58.0	62.912
58.5	61.170
59.0	59.466
59.5	57.763
60.0	56.137
60.5	54.511
61.0	52.923
61.5	51.336
62.0	49.826
62.5	48.316
63.0	46.845
63.5	45.374
64.0	43.941
64.5	42.548
65.0	41.154
65.5	39.799
66.0	38.448
66.5	37.120
67.0	35.807
67.5	34.522
68.0	33.260
68.5	31.994
69.0	30.767
69.5	29.551
70.0	28.370
70.5	27.228
71.0	26.109
71.5	25.025
72.0	23.980
72.5	22.966
73.0	21.978
73.5	21.011
74.0	20.081
74.5	19.172
75.0	18.277
75.5	17.414
76.0	16.566
76.5	15.734
77.0	14.925
77.5	14.131
78.0	13.361
78.5	12.606
79.0	11.866
79.5	11.154
80.0	10.445
80.5	9.760
81.0	9.083
81.5	8.409
82.0	7.751
82.5	7.096

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83.0	6.458
83.5	5.830
84.0	5.211
84.5	4.603
85.0	4.011
85.5	3.438
86.0	2.884
86.5	2.350
87.0	1.831
87.5	1.398
88.0	1.069
88.5	0.782
89.0	0.542
89.5	0.341
90.0	0.217
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	140.08	N.A.	23.20
0-30	283.16	N.A.	46.80
0-40	389.26	N.A.	64.40
0-60	539.06	N.A.	89.20
0-80	599.74	N.A.	99.20
0-90	604.53	N.A.	100.00
10-90	568.55	N.A.	94.00
20-40	249.17	N.A.	41.20
20-50	333.24	N.A.	55.10
40-70	190.83	N.A.	31.60
60-80	60.68	N.A.	10.00
70-80	19.66	N.A.	3.30
80-90	4.79	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	604.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.99
10-20	104.09
20-30	143.08
30-40	106.09
40-50	84.07
50-60	65.73
60-70	41.02
70-80	19.66
80-90	4.79
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	77
3	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	74	70	68
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	60	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	53	48	43	52	47	43	41
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	17.3	18.7	17.7	19.0	19.3	UGR Viewed Endwise	17.3	18.7	17.7	19.0	19.3
	3H	18.5	19.8	18.9	20.1	20.4		18.5	19.8	18.9	20.1	20.4
	4H	18.9	20.1	19.3	20.4	20.8		18.9	20.1	19.3	20.4	20.8
	6H	19.2	20.2	19.6	20.6	21.0		19.2	20.2	19.6	20.6	21.0
	8H	19.2	20.3	19.7	20.7	21.1		19.2	20.3	19.7	20.7	21.1
	12H	19.3	20.2	19.7	20.6	21.1		19.3	20.2	19.7	20.6	21.1

4H	2H	17.7	18.9	18.1	19.2	19.6	17.7	18.9	18.1	19.2	19.6
	3H	19.1	20.1	19.5	20.5	20.9	19.1	20.1	19.5	20.5	20.9
	4H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3
	6H	20.0	20.7	20.4	21.2	21.6	20.0	20.7	20.4	21.2	21.6
	8H	20.1	20.8	20.5	21.2	21.7	20.1	20.8	20.5	21.2	21.7
	12H	20.2	20.8	20.6	21.3	21.7	20.2	20.8	20.6	21.3	21.7

8H	4H	19.8	20.5	20.2	20.9	21.4	19.8	20.5	20.2	20.9	21.4
	6H	20.2	20.8	20.7	21.3	21.8	20.2	20.8	20.7	21.3	21.8
	8H	20.4	20.9	20.9	21.4	21.9	20.4	20.9	20.9	21.4	21.9
	12H	20.5	21.0	21.0	21.5	22.0	20.5	21.0	21.0	21.5	22.0

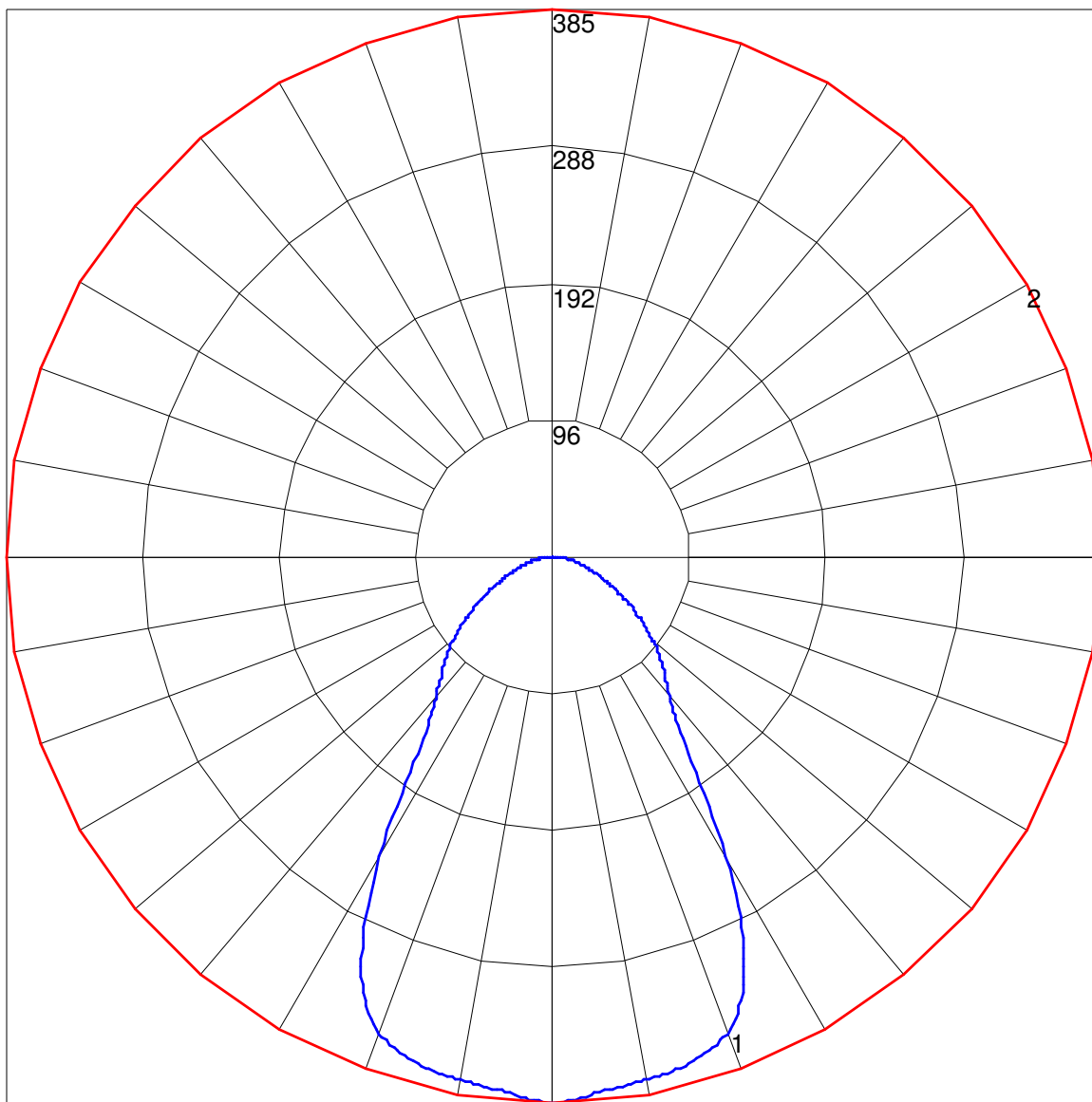
12H	4H	19.8	20.4	20.2	20.9	21.3	19.8	20.4	20.2	20.9	21.3
	6H	20.3	20.8	20.8	21.2	21.8	20.3	20.8	20.8	21.2	21.8
	8H	20.5	20.9	21.0	21.4	22.0	20.5	20.9	21.0	21.4	22.0

Maximum UGR = 22.0

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POLAR GRAPH



Maximum Candela = 384.555 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.)