

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L15-940-EM10W-DIM-UNV-L-M-OF-CS-WETCC_ (EMER ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 12316380.09
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 6/25/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 4DR-TL-L15-940-EM10W-DIM-UNV-L-M-OF-CS-WETCC (EMER ONLY)
[LUMINAIRE] Black formed aluminum housing, white reflector, clear plas
[MORE] tic optic, clear glass patterned enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.54
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.35 ft (Diameter)
Luminous Width (90-270)	0.35 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	7209	7209	7209
55	5619	5619	5619
65	4696	4696	4696
75	3778	3778	3778
85	2257	2257	2257

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	<u>0</u>
0.0	2458.138
0.5	2457.079
1.0	2453.372
1.5	2447.547
2.0	2440.134
2.5	2430.072
3.0	2418.423
3.5	2404.654
4.0	2388.768
4.5	2371.823
5.0	2352.759
5.5	2331.577
6.0	2308.278
6.5	2282.330
7.0	2254.264
7.5	2223.551
8.0	2190.190
8.5	2154.181
9.0	2116.054
9.5	2074.749
10.0	2030.268
10.5	1982.609
11.0	1932.832
11.5	1880.407
12.0	1824.805
12.5	1767.085
13.0	1706.717
13.5	1644.231
14.0	1579.097
14.5	1511.845
15.0	1444.064
15.5	1375.223
16.0	1306.382
16.5	1237.012
17.0	1168.172
17.5	1101.449
18.0	1035.256
18.5	971.711
19.0	910.814
19.5	852.035
20.0	796.433
20.5	742.949
21.0	693.172
21.5	646.042
22.0	601.561
22.5	560.256
23.0	521.282
23.5	484.955
24.0	451.224
24.5	419.716
25.0	390.485
25.5	363.319
26.0	337.848
26.5	314.337

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27.0	292.414
27.5	272.344
28.0	253.651
28.5	236.388
29.0	220.555
29.5	205.780
30.0	192.065
30.5	179.409
31.0	167.706
31.5	156.957
32.0	147.001
32.5	137.840
33.0	129.420
33.5	121.636
34.0	114.540
34.5	107.974
35.0	102.043
35.5	96.536
36.0	91.505
36.5	86.898
37.0	82.662
37.5	78.796
38.0	75.301
38.5	72.071
39.0	69.105
39.5	66.405
40.0	63.916
40.5	61.586
41.0	59.415
41.5	57.455
42.0	55.602
42.5	53.855
43.0	52.266
43.5	50.730
44.0	49.300
44.5	47.977
45.0	46.653
45.5	45.435
46.0	44.323
46.5	43.211
47.0	42.152
47.5	41.198
48.0	40.192
48.5	39.292
49.0	38.392
49.5	37.492
50.0	36.697
50.5	35.903
51.0	35.162
51.5	34.367
52.0	33.626
52.5	32.938
53.0	32.196
53.5	31.508
54.0	30.819
54.5	30.131

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55.0	29.496
55.5	28.860
56.0	28.225
56.5	27.589
57.0	26.901
57.5	26.318
58.0	25.736
58.5	25.206
59.0	24.624
59.5	24.041
60.0	23.459
60.5	22.876
61.0	22.400
61.5	21.817
62.0	21.288
62.5	20.758
63.0	20.229
63.5	19.752
64.0	19.222
64.5	18.693
65.0	18.163
65.5	17.687
66.0	17.210
66.5	16.734
67.0	16.204
67.5	15.727
68.0	15.251
68.5	14.774
69.0	14.298
69.5	13.821
70.0	13.344
70.5	12.921
71.0	12.497
71.5	11.968
72.0	11.544
72.5	11.120
73.0	10.697
73.5	10.220
74.0	9.797
74.5	9.373
75.0	8.949
75.5	8.526
76.0	8.102
76.5	7.678
77.0	7.255
77.5	6.937
78.0	6.513
78.5	6.143
79.0	5.772
79.5	5.401
80.0	5.031
80.5	4.660
81.0	4.289
81.5	4.025
82.0	3.601
82.5	3.336

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83.0	2.965
83.5	2.701
84.0	2.383
84.5	2.065
85.0	1.800
85.5	1.483
86.0	1.271
86.5	1.006
87.0	0.847
87.5	0.688
88.0	0.530
88.5	0.424
89.0	0.318
89.5	0.212
90.0	0.159
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	600.81	N.A.	63.20
0-30	789.08	N.A.	83.10
0-40	856.95	N.A.	90.20
0-60	920.22	N.A.	96.90
0-80	947.80	N.A.	99.80
0-90	950.04	N.A.	100.00
10-90	735.51	N.A.	77.40
20-40	256.14	N.A.	27.00
20-50	292.89	N.A.	30.80
40-70	81.33	N.A.	8.60
60-80	27.58	N.A.	2.90
70-80	9.52	N.A.	1.00
80-90	2.24	N.A.	0.20
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	950.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	214.53
10-20	386.28
20-30	188.27
30-40	67.87
40-50	36.75
50-60	26.51
60-70	18.06
70-80	9.52
80-90	2.24
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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	89	81	76	72	88	80	75	72	79	74	71	78	74	71	77	73	71	69
8	86	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62

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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	11.8	12.8	12.1	13.1	13.4	11.8	12.8	12.1	13.1	13.4
	3H	13.2	14.1	13.6	14.4	14.8	13.2	14.1	13.6	14.4	14.8
	4H	13.7	14.5	14.1	14.9	15.3	13.7	14.5	14.1	14.9	15.3
	6H	14.0	14.8	14.5	15.2	15.6	14.0	14.8	14.5	15.2	15.6
	8H	14.1	14.8	14.6	15.2	15.6	14.1	14.8	14.6	15.2	15.6
	12H	14.1	14.8	14.6	15.2	15.6	14.1	14.8	14.6	15.2	15.6

UGR Viewed Endwise

4H	2H	12.2	13.0	12.6	13.4	13.8	12.2	13.0	12.6	13.4	13.8
	3H	13.8	14.5	14.2	14.9	15.3	13.8	14.5	14.2	14.9	15.3
	4H	14.5	15.1	14.9	15.5	15.9	14.5	15.1	14.9	15.5	15.9
	6H	14.9	15.4	15.4	15.9	16.3	14.9	15.4	15.4	15.9	16.3
	8H	15.0	15.5	15.5	15.9	16.4	15.0	15.5	15.5	15.9	16.4
	12H	15.0	15.5	15.5	15.9	16.4	15.0	15.5	15.5	15.9	16.4

8H	4H	14.6	15.1	15.1	15.6	16.0	14.6	15.1	15.1	15.6	16.0
	6H	15.1	15.5	15.7	16.0	16.5	15.1	15.5	15.7	16.0	16.5
	8H	15.3	15.7	15.8	16.2	16.7	15.3	15.7	15.8	16.2	16.7
	12H	15.4	15.7	15.9	16.2	16.8	15.4	15.7	15.9	16.2	16.8

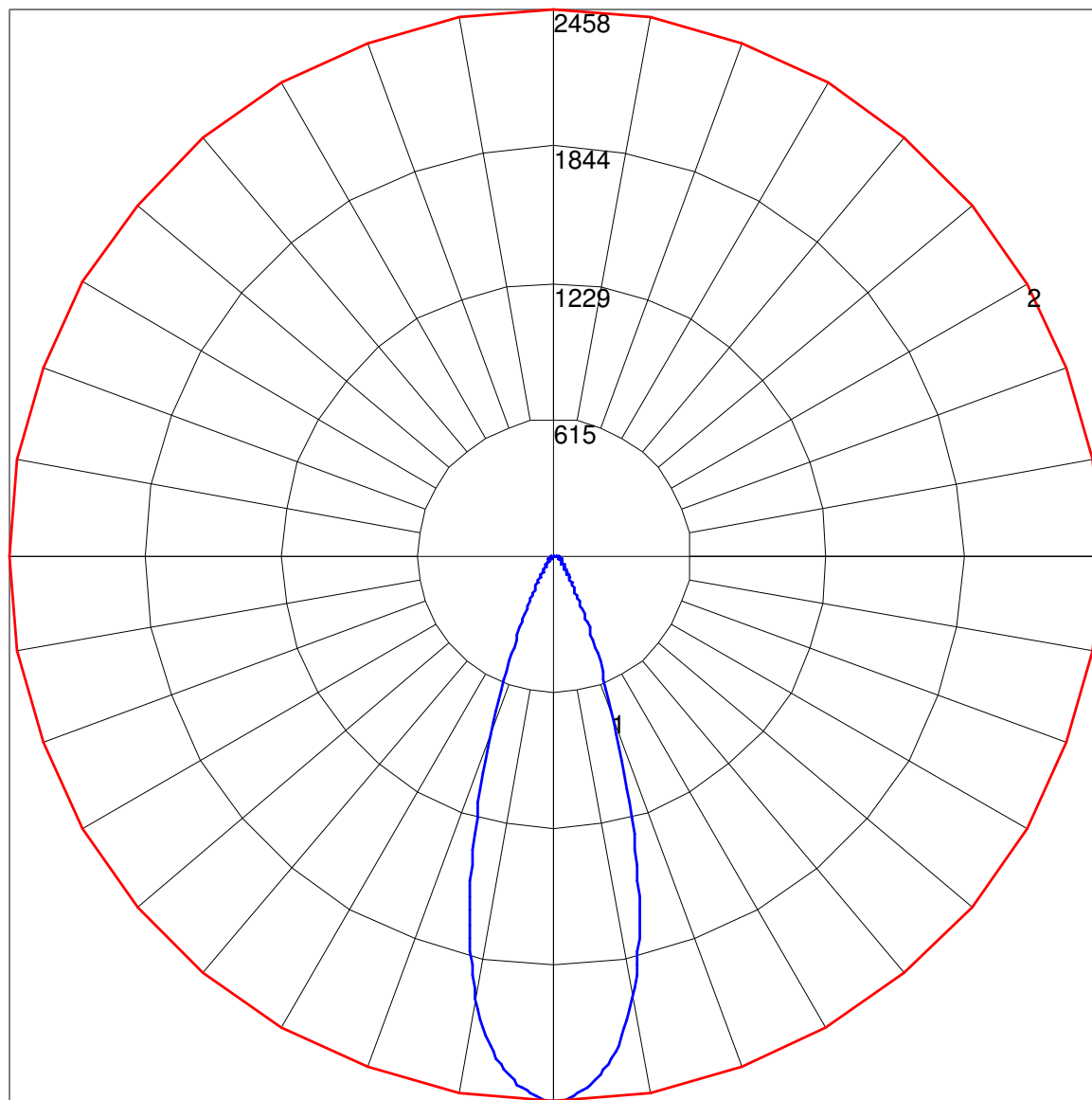
12H	4H	14.6	15.0	15.1	15.5	16.0	14.6	15.0	15.1	15.5	16.0
	6H	15.2	15.5	15.7	16.0	16.5	15.2	15.5	15.7	16.0	16.5
	8H	15.3	15.7	15.9	16.1	16.7	15.3	15.7	15.9	16.1	16.7

Maximum UGR = 16.8

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POLAR GRAPH



Maximum Candela = 2458.138 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.)