

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L30-940-(L27)-DIM-UNV-OW-OF-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 12316380.19
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 9/30/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 4DR-TL-L30-940-(L27)-DIM-UNV-OW-OF-CS
[LUMINAIRE] Black formed aluminum housing, specular reflector, no lens
[MORE] 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	2340
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.38 ft (Diameter)
Luminous Width (90-270)	0.38 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	9061	9061	9061
55	3339	3339	3339
65	1200	1200	1200
75	438	438	438
85	206	206	206

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CANDELA TABULATION

	<u>0</u>
0.0	2689.867
0.5	2689.254
1.0	2688.029
1.5	2683.127
2.0	2678.225
2.5	2669.647
3.0	2657.392
3.5	2640.236
4.0	2621.854
4.5	2598.571
5.0	2576.512
5.5	2548.940
6.0	2519.529
6.5	2486.442
7.0	2450.904
7.5	2413.527
8.0	2375.538
8.5	2340.000
9.0	2307.526
9.5	2276.889
10.0	2248.704
10.5	2221.744
11.0	2199.073
11.5	2180.079
12.0	2164.761
12.5	2154.344
13.0	2146.992
13.5	2145.153
14.0	2146.379
14.5	2151.893
15.0	2160.472
15.5	2172.726
16.0	2188.657
16.5	2207.651
17.0	2229.710
17.5	2252.993
18.0	2278.115
18.5	2303.849
19.0	2329.584
19.5	2355.931
20.0	2381.666
20.5	2404.949
21.0	2425.782
21.5	2441.713
22.0	2453.967
22.5	2461.933
23.0	2464.384
23.5	2460.095
24.0	2449.678
24.5	2431.296
25.0	2404.949
25.5	2367.573
26.0	2317.942
26.5	2258.508

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CANDELA TABULATION - (Cont.)

27.0	2188.044
27.5	2110.841
28.0	2025.059
28.5	1931.312
29.0	1828.987
29.5	1715.020
30.0	1593.087
30.5	1465.640
31.0	1334.517
31.5	1202.168
32.0	1069.819
32.5	945.436
33.0	827.793
33.5	718.727
34.0	622.530
34.5	534.481
35.0	454.275
35.5	383.750
36.0	324.929
36.5	278.300
37.0	242.517
37.5	214.883
38.0	191.109
38.5	171.196
39.0	154.223
39.5	140.130
40.0	127.876
40.5	117.214
41.0	107.962
41.5	100.181
42.0	93.625
42.5	87.804
43.0	82.534
43.5	77.755
44.0	73.405
44.5	69.422
45.0	65.807
45.5	62.314
46.0	59.128
46.5	56.064
47.0	53.185
47.5	50.366
48.0	47.609
48.5	44.974
49.0	42.401
49.5	40.011
50.0	37.744
50.5	35.538
51.0	33.394
51.5	31.310
52.0	29.227
52.5	27.328
53.0	25.551
53.5	23.958
54.0	22.426
54.5	21.016

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CANDELA TABULATION - (Cont.)

55.0	19.669
55.5	18.443
56.0	17.279
56.5	16.176
57.0	15.134
57.5	14.215
58.0	13.296
58.5	12.438
59.0	11.642
59.5	10.907
60.0	10.233
60.5	9.559
61.0	8.946
61.5	8.394
62.0	7.843
62.5	7.353
63.0	6.863
63.5	6.372
64.0	5.943
64.5	5.576
65.0	5.208
65.5	4.841
66.0	4.473
66.5	4.167
67.0	3.860
67.5	3.615
68.0	3.370
68.5	3.125
69.0	2.880
69.5	2.696
70.0	2.512
70.5	2.328
71.0	2.145
71.5	1.961
72.0	1.838
72.5	1.716
73.0	1.593
73.5	1.471
74.0	1.348
74.5	1.225
75.0	1.164
75.5	1.042
76.0	0.980
76.5	0.919
77.0	0.858
77.5	0.735
78.0	0.674
78.5	0.613
79.0	0.613
79.5	0.551
80.0	0.490
80.5	0.429
81.0	0.429
81.5	0.368
82.0	0.368
82.5	0.306

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CANDELA TABULATION - (Cont.)

83.0	0.306
83.5	0.245
84.0	0.245
84.5	0.184
85.0	0.184
85.5	0.184
86.0	0.184
86.5	0.123
87.0	0.123
87.5	0.123
88.0	0.061
88.5	0.061
89.0	0.061
89.5	0.061
90.0	0.061
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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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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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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4DR-TL-L30-940-(L27)-DIM-UNV-OW-OF-CS_.IES****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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	864.87	N.A.	37.00
0-30	1898.69	N.A.	81.10
0-40	2260.68	N.A.	96.60
0-60	2333.25	N.A.	99.70
0-80	2340.06	N.A.	100.00
0-90	2340.3	N.A.	100.00
10-90	2105.92	N.A.	90.00
20-40	1395.8	N.A.	59.60
20-50	1449.65	N.A.	61.90
40-70	78.06	N.A.	3.30
60-80	6.81	N.A.	0.30
70-80	1.33	N.A.	0.10
80-90	0.24	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	2340.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	234.37
10-20	630.50
20-30	1033.82
30-40	361.99
40-50	53.85
50-60	18.72
60-70	5.48
70-80	1.33
80-90	0.24
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	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72
6	89	80	75	71	88	80	74	70	78	73	70	77	73	69	75	72	69	67
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63
8	81	72	66	62	80	71	65	62	70	65	61	69	64	61	68	64	61	60
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

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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

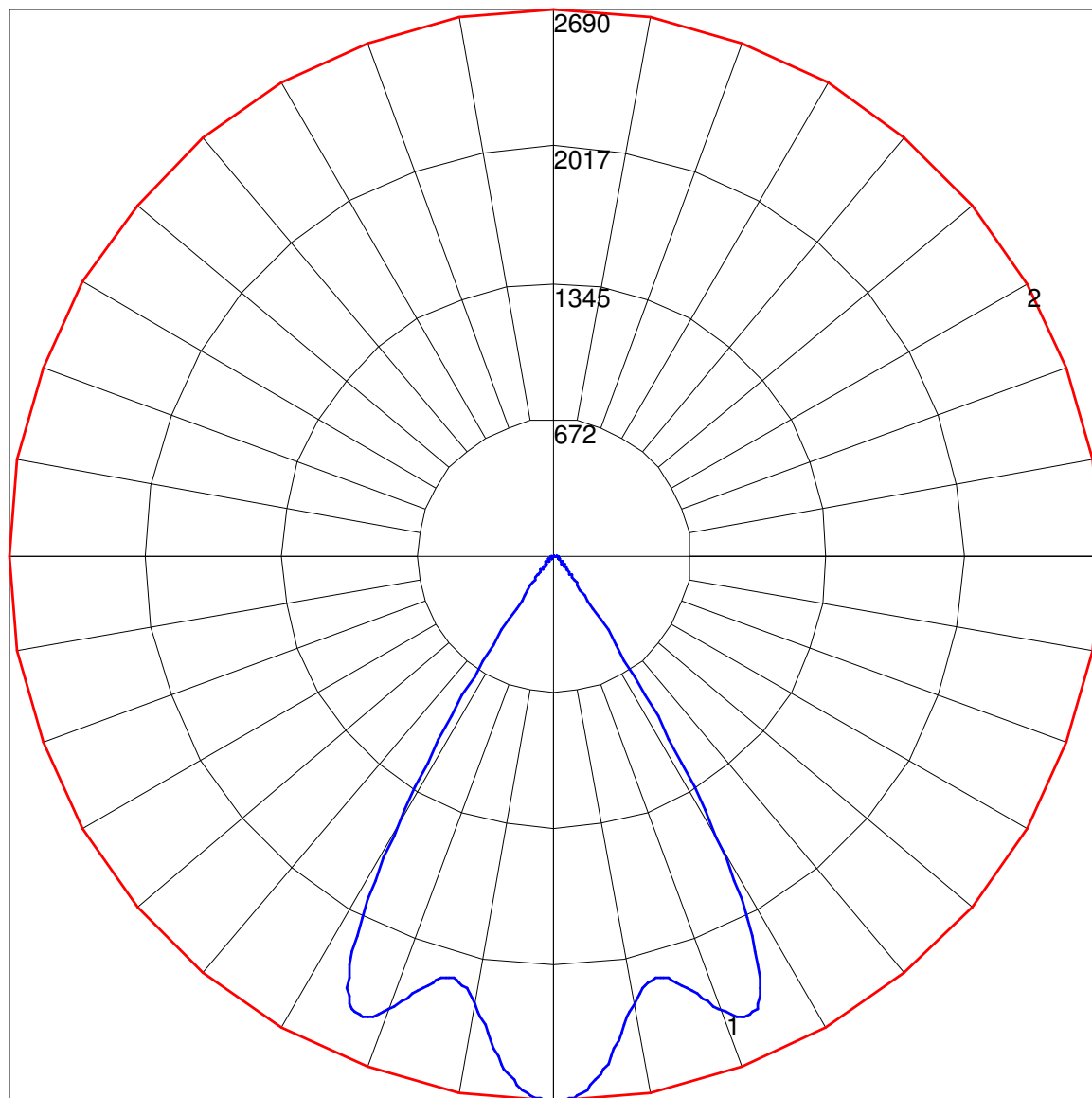
X=2H	Y=2H	3.9	4.9	4.3	5.2	5.5	3.9	4.9	4.3	5.2	5.5
	3H	4.0	4.9	4.4	5.2	5.6	4.0	4.9	4.4	5.2	5.6
	4H	4.0	4.7	4.4	5.1	5.5	4.0	4.7	4.4	5.1	5.5
	6H	3.9	4.6	4.3	5.0	5.4	3.9	4.6	4.3	5.0	5.4
	8H	3.9	4.5	4.3	4.9	5.3	3.9	4.5	4.3	4.9	5.3
	12H	3.8	4.4	4.2	4.8	5.2	3.8	4.4	4.2	4.8	5.2

UGR Viewed Endwise

4H	2H	3.8	4.6	4.3	5.0	5.3	3.8	4.6	4.3	5.0	5.3
	3H	4.0	4.6	4.4	5.0	5.4	4.0	4.6	4.4	5.0	5.4
	4H	4.0	4.5	4.4	4.9	5.4	4.0	4.5	4.4	4.9	5.4
	6H	3.9	4.4	4.4	4.8	5.3	3.9	4.4	4.4	4.8	5.3
	8H	3.8	4.3	4.3	4.7	5.2	3.8	4.3	4.3	4.7	5.2
	12H	3.8	4.2	4.3	4.6	5.1	3.8	4.2	4.3	4.6	5.1
8H	4H	3.8	4.3	4.3	4.7	5.2	3.8	4.3	4.3	4.7	5.2
	6H	3.8	4.1	4.3	4.6	5.1	3.8	4.1	4.3	4.6	5.1
	8H	3.7	4.0	4.3	4.5	5.0	3.7	4.0	4.3	4.5	5.0
	12H	3.7	3.9	4.2	4.4	5.0	3.7	3.9	4.2	4.4	5.0
12H	4H	3.8	4.1	4.3	4.6	5.1	3.8	4.1	4.3	4.6	5.1
	6H	3.7	4.0	4.2	4.5	5.0	3.7	4.0	4.2	4.5	5.0
	8H	3.7	3.9	4.2	4.4	5.0	3.7	3.9	4.2	4.4	5.0

Maximum UGR = 5.6

POLAR GRAPH



Maximum Candela = 2689.867 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.)