



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-840-DIM1-UNV-OM-OF-CS-WETCC_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.04

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 06-01-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 6DR-TL-L15-840-DIM-UNV-OM-OF-CS-WETCC

[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	1283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	13.8
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	2316	2316	2316
55	853	853	853
65	336	336	336
75	151	151	151
85	122	122	122

CANDELA TABULATION

	<u>0</u>
0.0	2597.335
0.5	2601.218
1.0	2608.985
1.5	2613.516
2.0	2624.518
2.5	2629.049
3.0	2636.816
3.5	2638.758
4.0	2632.932
4.5	2601.865
5.0	2570.798
5.5	2537.790
6.0	2484.717
6.5	2431.644
7.0	2375.335
7.5	2311.906
8.0	2238.122
8.5	2162.396
9.0	2084.081
9.5	2007.708
10.0	1937.160
10.5	1875.026
11.0	1821.306
11.5	1775.352
12.0	1730.046
12.5	1685.387
13.0	1642.670
13.5	1602.542
14.0	1566.297
14.5	1533.936
15.0	1504.810
15.5	1476.979
16.0	1449.796
16.5	1421.318
17.0	1392.192
17.5	1363.067
18.0	1336.530
18.5	1313.230
19.0	1289.283
19.5	1264.688
20.0	1237.504
20.5	1208.379
21.0	1178.606
21.5	1148.186
22.0	1115.825
22.5	1084.758
23.0	1051.749
23.5	1018.093
24.0	983.143
24.5	948.192
25.0	913.889
25.5	879.586
26.0	847.872
26.5	817.452

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27.0	788.974
27.5	761.790
28.0	737.195
28.5	715.189
29.0	694.478
29.5	674.414
30.0	649.172
30.5	617.587
31.0	581.342
31.5	541.473
32.0	501.021
32.5	460.310
33.0	419.599
33.5	376.882
34.0	333.518
34.5	293.972
35.0	255.980
35.5	220.123
36.0	185.626
36.5	154.753
37.0	129.446
37.5	111.647
38.0	102.068
38.5	95.596
39.0	89.124
39.5	82.263
40.0	74.949
40.5	67.182
41.0	59.739
41.5	52.814
42.0	46.924
42.5	42.264
43.0	38.640
43.5	35.857
44.0	33.527
44.5	31.650
45.0	29.902
45.5	28.413
46.0	26.989
46.5	25.695
47.0	24.401
47.5	23.171
48.0	21.941
48.5	20.711
49.0	19.482
49.5	18.381
50.0	17.346
50.5	16.310
51.0	15.339
51.5	14.369
52.0	13.398
52.5	12.556
53.0	11.715
53.5	10.938
54.0	10.226
54.5	9.579

CANDELA TABULATION - (Cont.)

55.0	8.932
55.5	8.414
56.0	7.831
56.5	7.378
57.0	6.925
57.5	6.472
58.0	6.084
58.5	5.696
59.0	5.372
59.5	5.048
60.0	4.725
60.5	4.401
61.0	4.142
61.5	3.883
62.0	3.689
62.5	3.495
63.0	3.236
63.5	3.107
64.0	2.913
64.5	2.718
65.0	2.589
65.5	2.395
66.0	2.265
66.5	2.136
67.0	2.006
67.5	1.877
68.0	1.812
68.5	1.683
69.0	1.553
69.5	1.489
70.0	1.424
70.5	1.294
71.0	1.230
71.5	1.165
72.0	1.100
72.5	1.036
73.0	0.971
73.5	0.906
74.0	0.841
74.5	0.777
75.0	0.712
75.5	0.712
76.0	0.647
76.5	0.583
77.0	0.583
77.5	0.518
78.0	0.518
78.5	0.453
79.0	0.453
79.5	0.388
80.0	0.388
80.5	0.324
81.0	0.324
81.5	0.324
82.0	0.259
82.5	0.259

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CANDELA TABULATION - (Cont.)

83.0	0.259
83.5	0.194
84.0	0.194
84.5	0.194
85.0	0.194
85.5	0.129
86.0	0.129
86.5	0.129
87.0	0.129
87.5	0.129
88.0	0.065
88.5	0.065
89.0	0.065
89.5	0.065
90.0	0.065
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

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	647.73	N.A.	50.50
0-30	1067.3	N.A.	83.20
0-40	1244.84	N.A.	97.00
0-60	1279.73	N.A.	99.70
0-80	1283.24	N.A.	100.00
0-90	1283.44	N.A.	100.00
10-90	1059.65	N.A.	82.60
20-40	597.11	N.A.	46.50
20-50	623.43	N.A.	48.60
40-70	37.57	N.A.	2.90
60-80	3.51	N.A.	0.30
70-80	0.83	N.A.	0.10
80-90	0.20	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	1283.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	223.79
10-20	423.93
20-30	419.57
30-40	177.55
40-50	26.32
50-60	8.57
60-70	2.68
70-80	0.83
80-90	0.20
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	93	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	85	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	76	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

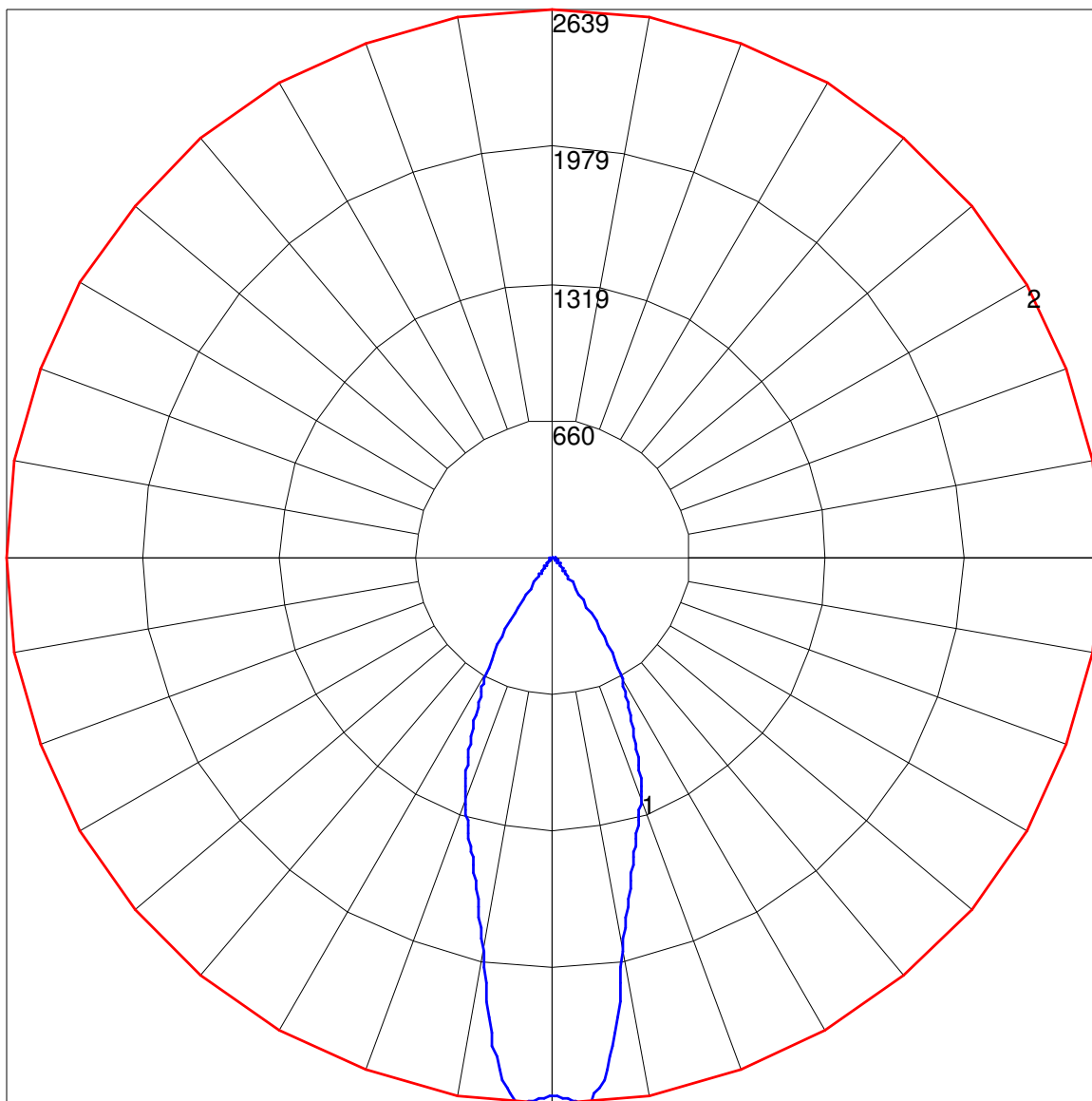
X=2H	Y=2H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	3H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	4H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	6H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	8H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	12H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

UGR Viewed Endwise

4H	2H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	3H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	4H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	6H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	8H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	12H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
8H	4H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	6H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	8H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	12H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
12H	4H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	6H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	8H	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

Maximum UGR = 0.9

POLAR GRAPH



Maximum Candela = 2638.758 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.)