



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L50-835-DIM1-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 12326812.07
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 16 FEB 2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L50-835-DIM1-UNV-LW-OF-WH
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glas
 [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	3823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	43.9
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	63549	63549	63549
55	52907	52907	52907
65	40194	40194	40194
75	29149	29149	29149
85	18995	18995	18995

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CANDELA TABULATION

	<u>0</u>
0.0	2431.740
0.5	2431.251
1.0	2429.292
1.5	2426.355
2.0	2422.682
2.5	2417.786
3.0	2412.890
3.5	2407.259
4.0	2402.118
4.5	2396.977
5.0	2393.305
5.5	2389.877
6.0	2386.695
6.5	2383.512
7.0	2380.085
7.5	2376.902
8.0	2373.719
8.5	2370.782
9.0	2367.844
9.5	2365.396
10.0	2362.948
10.5	2360.989
11.0	2359.275
11.5	2358.296
12.0	2356.582
12.5	2354.869
13.0	2352.421
13.5	2349.238
14.0	2345.321
14.5	2340.914
15.0	2336.263
15.5	2330.387
16.0	2324.022
16.5	2317.657
17.0	2311.292
17.5	2304.682
18.0	2297.582
18.5	2289.503
19.0	2280.445
19.5	2270.408
20.0	2258.902
20.5	2246.416
21.0	2230.993
21.5	2212.632
22.0	2191.822
22.5	2168.320
23.0	2142.615
23.5	2114.706
24.0	2083.859
24.5	2050.565
25.0	2014.577
25.5	1977.120
26.0	1937.216
26.5	1895.597

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CANDELA TABULATION - (Cont.)

27.0	1851.286
27.5	1805.750
28.0	1757.767
28.5	1707.090
29.0	1654.455
29.5	1599.127
30.0	1542.330
30.5	1483.819
31.0	1425.309
31.5	1366.309
32.0	1309.022
32.5	1254.184
33.0	1201.549
33.5	1152.341
34.0	1107.050
34.5	1065.921
35.0	1029.199
35.5	995.415
36.0	965.792
36.5	938.618
37.0	914.381
37.5	892.593
38.0	872.763
38.5	854.647
39.0	837.510
39.5	822.086
40.0	807.153
40.5	793.198
41.0	780.223
41.5	767.493
42.0	755.252
42.5	743.991
43.0	732.484
43.5	721.223
44.0	710.206
44.5	699.434
45.0	688.418
45.5	677.891
46.0	667.119
46.5	656.347
47.0	645.330
47.5	634.559
48.0	623.542
48.5	612.525
49.0	601.509
49.5	590.002
50.0	578.986
50.5	567.724
51.0	556.463
51.5	544.957
52.0	533.450
52.5	521.944
53.0	510.438
53.5	498.932
54.0	487.915
54.5	476.653

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CANDELA TABULATION - (Cont.)

55.0	464.902
55.5	453.396
56.0	441.890
56.5	431.118
57.0	420.346
57.5	409.085
58.0	397.823
58.5	386.807
59.0	376.035
59.5	365.263
60.0	354.981
60.5	344.699
61.0	334.661
61.5	324.624
62.0	315.076
62.5	305.528
63.0	296.225
63.5	286.922
64.0	277.864
64.5	269.051
65.0	260.238
65.5	251.669
66.0	243.125
66.5	234.728
67.0	226.429
67.5	218.301
68.0	210.320
68.5	202.315
69.0	194.554
69.5	186.867
70.0	179.400
70.5	172.178
71.0	165.103
71.5	158.248
72.0	151.638
72.5	145.224
73.0	138.981
73.5	132.861
74.0	126.985
74.5	121.232
75.0	115.577
75.5	110.117
76.0	104.756
76.5	99.493
77.0	94.376
77.5	89.357
78.0	84.485
78.5	79.712
79.0	75.036
79.5	70.531
80.0	66.051
80.5	61.718
81.0	57.433
81.5	53.174
82.0	49.012
82.5	44.874

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CANDELA TABULATION - (Cont.)

83.0	40.835
83.5	36.869
84.0	32.952
84.5	29.108
85.0	25.363
85.5	21.740
86.0	18.239
86.5	14.860
87.0	11.580
87.5	8.838
88.0	6.757
88.5	4.945
89.0	3.427
89.5	2.154
90.0	1.371
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
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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
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126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
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130.0	0.000
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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

IES INDOOR REPORT
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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

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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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	885.80	N.A.	23.20
0-30	1790.57	N.A.	46.80
0-40	2461.46	N.A.	64.40
0-60	3408.75	N.A.	89.20
0-80	3792.45	N.A.	99.20
0-90	3822.77	N.A.	100.00
10-90	3595.21	N.A.	94.00
20-40	1575.66	N.A.	41.20
20-50	2107.28	N.A.	55.10
40-70	1206.69	N.A.	31.60
60-80	383.70	N.A.	10.00
70-80	124.30	N.A.	3.30
80-90	30.32	N.A.	0.80
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3822.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.56
10-20	658.24
20-30	904.77
30-40	670.89
40-50	531.62
50-60	415.67
60-70	259.40
70-80	124.30
80-90	30.32
90-100	0.04
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	101	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	78	74	70	69
4	89	79	72	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

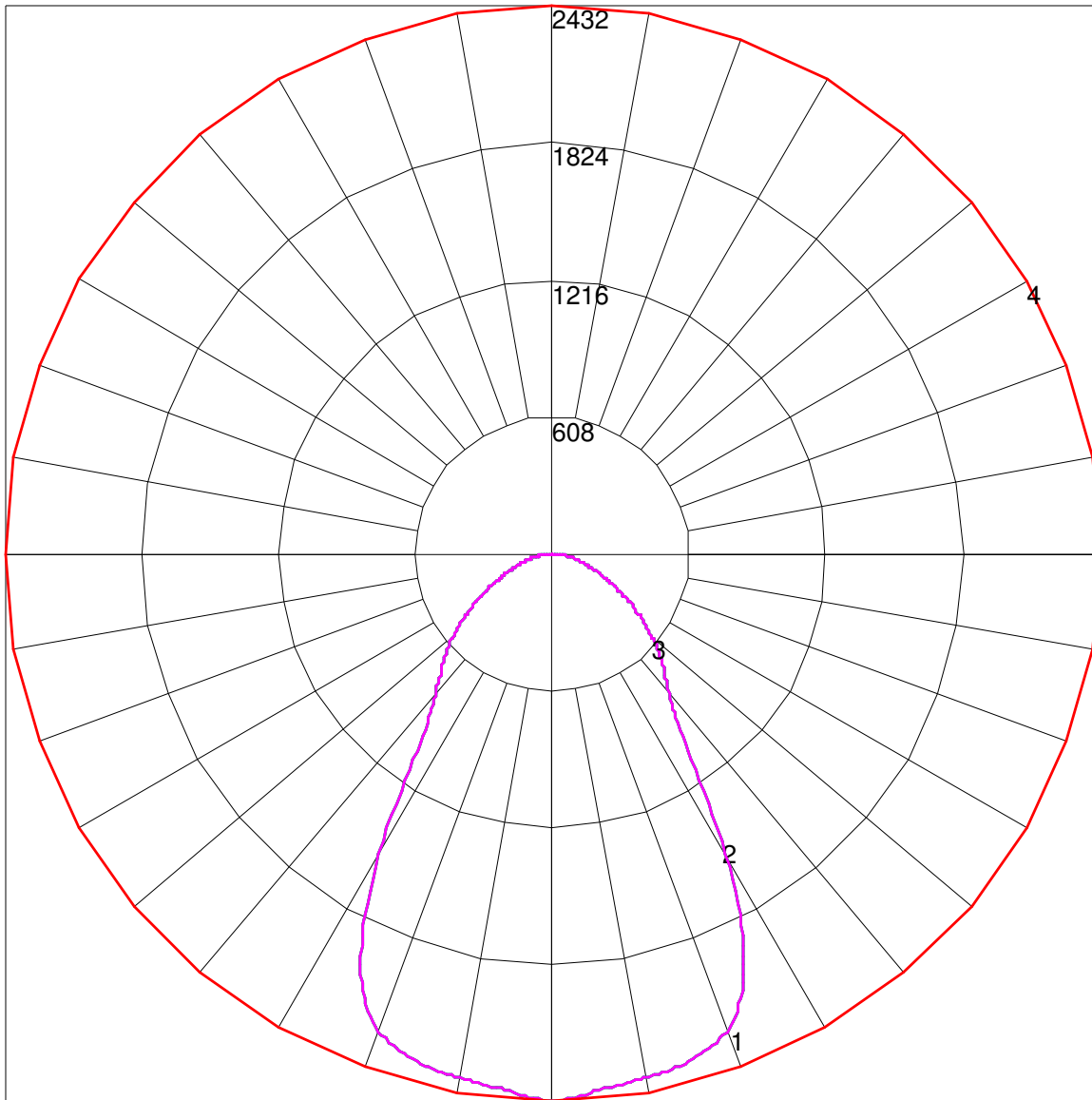
X=2H	Y=2H	23.7	25.1	24.1	25.4	25.7	23.7	25.1	24.1	25.4	25.7
	3H	24.9	26.2	25.3	26.5	26.8	24.9	26.2	25.3	26.5	26.8
	4H	25.3	26.5	25.7	26.8	27.2	25.3	26.5	25.7	26.8	27.2
	6H	25.6	26.6	26.0	27.0	27.4	25.6	26.6	26.0	27.0	27.4
	8H	25.7	26.7	26.1	27.1	27.5	25.7	26.7	26.1	27.1	27.5
	12H	25.7	26.7	26.1	27.0	27.5	25.7	26.7	26.1	27.0	27.5

UGR Viewed Endwise

4H	2H	24.1	25.3	24.5	25.6	26.0	24.1	25.3	24.5	25.6	26.0
	3H	25.5	26.5	25.9	26.9	27.3	25.5	26.5	25.9	26.9	27.3
	4H	26.0	26.9	26.5	27.3	27.7	26.0	26.9	26.5	27.3	27.7
	6H	26.4	27.1	26.9	27.6	28.0	26.4	27.1	26.9	27.6	28.0
	8H	26.5	27.2	26.9	27.6	28.1	26.5	27.2	26.9	27.6	28.1
	12H	26.6	27.2	27.0	27.7	28.1	26.6	27.2	27.0	27.7	28.1
8H	4H	26.2	26.9	26.6	27.3	27.8	26.2	26.9	26.6	27.3	27.8
	6H	26.6	27.2	27.1	27.7	28.2	26.6	27.2	27.1	27.7	28.2
	8H	26.8	27.3	27.3	27.8	28.3	26.8	27.3	27.3	27.8	28.3
	12H	26.9	27.4	27.4	27.9	28.4	26.9	27.4	27.4	27.9	28.4
12H	4H	26.2	26.8	26.7	27.3	27.7	26.2	26.8	26.7	27.3	27.7
	6H	26.7	27.2	27.2	27.6	28.2	26.7	27.2	27.2	27.6	28.2
	8H	26.9	27.3	27.4	27.8	28.4	26.9	27.3	27.4	27.8	28.4

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 2431.74 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)