



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-835-DIM-UNV-RW-OF-WH-AD\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 12326812.16  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 02/21/2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6DR-TL-L40-835-DIM-UNV-RW-OF-WH-AD  
[LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl  
[MORE] astic 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	2456
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	36.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 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	47252	47252	47252
55	34378	34378	34378
65	26031	26031	26031
75	15387	15387	15387
85	11620	11620	11620

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CANDELA TABULATION

	<u>0</u>
0.0	1237.594
0.5	1237.594
1.0	1237.020
1.5	1236.062
2.0	1234.913
2.5	1233.572
3.0	1231.848
3.5	1229.932
4.0	1228.017
4.5	1226.293
5.0	1224.377
5.5	1222.653
6.0	1220.738
6.5	1218.822
7.0	1216.715
7.5	1214.417
8.0	1212.310
8.5	1210.011
9.0	1207.521
9.5	1205.031
10.0	1202.349
10.5	1199.668
11.0	1196.603
11.5	1193.538
12.0	1190.282
12.5	1186.834
13.0	1183.194
13.5	1179.555
14.0	1175.533
14.5	1171.318
15.0	1166.913
15.5	1162.507
16.0	1157.910
16.5	1153.313
17.0	1148.907
17.5	1144.119
18.0	1139.521
18.5	1134.733
19.0	1129.752
19.5	1124.772
20.0	1119.792
20.5	1114.429
21.0	1109.065
21.5	1103.127
22.0	1096.998
22.5	1090.102
23.0	1083.015
23.5	1075.544
24.0	1067.499
24.5	1059.263
25.0	1050.643
25.5	1041.832
26.0	1032.637
26.5	1023.443

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**CANDELA TABULATION - (Cont.)**

27.0	1013.866
27.5	1004.288
28.0	994.519
28.5	984.750
29.0	974.981
29.5	964.829
30.0	954.677
30.5	944.142
31.0	933.607
31.5	922.497
32.0	911.579
32.5	900.086
33.0	888.401
33.5	876.525
34.0	864.266
34.5	851.816
35.0	838.982
35.5	826.148
36.0	812.740
36.5	799.523
37.0	785.923
37.5	772.323
38.0	758.532
38.5	744.740
39.0	730.757
39.5	716.583
40.0	702.408
40.5	688.042
41.0	673.676
41.5	659.501
42.0	645.135
42.5	630.769
43.0	616.594
43.5	602.228
44.0	588.054
44.5	573.879
45.0	559.896
45.5	545.913
46.0	532.121
46.5	518.522
47.0	505.113
47.5	491.896
48.0	478.871
48.5	466.037
49.0	453.587
49.5	441.328
50.0	429.643
50.5	418.150
51.0	407.232
51.5	396.888
52.0	386.736
52.5	376.584
53.0	366.815
53.5	357.238
54.0	348.043
54.5	339.041

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**CANDELA TABULATION - (Cont.)**

55.0	330.421
55.5	322.376
56.0	314.331
56.5	306.286
57.0	298.241
57.5	290.579
58.0	283.109
58.5	275.638
59.0	268.359
59.5	261.080
60.0	253.993
60.5	246.906
61.0	239.819
61.5	232.923
62.0	226.027
62.5	218.940
63.0	212.044
63.5	205.148
64.0	198.253
64.5	191.338
65.0	184.346
65.5	177.431
66.0	170.497
66.5	163.678
67.0	156.859
67.5	150.097
68.0	143.431
68.5	136.842
69.0	130.349
69.5	123.970
70.0	117.687
70.5	111.577
71.0	105.620
71.5	99.797
72.0	94.165
72.5	88.840
73.0	83.898
73.5	79.224
74.0	74.857
74.5	70.701
75.0	66.735
75.5	63.058
76.0	59.610
76.5	56.583
77.0	53.844
77.5	51.143
78.0	48.500
78.5	45.914
79.0	43.424
79.5	40.953
80.0	38.559
80.5	36.203
81.0	33.904
81.5	31.644
82.0	29.422
82.5	27.219

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CANDELA TABULATION - (Cont.)

83.0	25.074
83.5	22.986
84.0	20.955
84.5	18.925
85.0	16.971
85.5	15.037
86.0	13.159
86.5	11.340
87.0	9.558
87.5	7.796
88.0	6.264
88.5	4.999
89.0	3.908
89.5	3.007
90.0	2.184
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

IES INDOOR REPORT  
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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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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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6DR-TL-L40-835-DIM-UNV-RW-OF-WH-AD\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	445.15	N.A.	18.10
0-30	926.93	N.A.	37.70
0-40	1448.41	N.A.	59.00
0-60	2178.91	N.A.	88.70
0-80	2435.97	N.A.	99.20
0-90	2455.49	N.A.	100.00
10-90	2339.29	N.A.	95.30
20-40	1003.27	N.A.	40.90
20-50	1435.3	N.A.	58.50
40-70	912.95	N.A.	37.20
60-80	257.06	N.A.	10.50
70-80	74.61	N.A.	3.00
80-90	19.52	N.A.	0.80
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2455.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	116.20
10-20	328.95
20-30	481.78
30-40	521.48
40-50	432.03
50-60	298.47
60-70	182.45
70-80	74.61
80-90	19.52
90-100	0.06
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	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41
8	66	53	45	40	64	53	45	40	51	45	40	50	44	40	49	43	39	38
9	62	49	42	36	60	49	41	36	48	41	36	47	40	36	46	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

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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

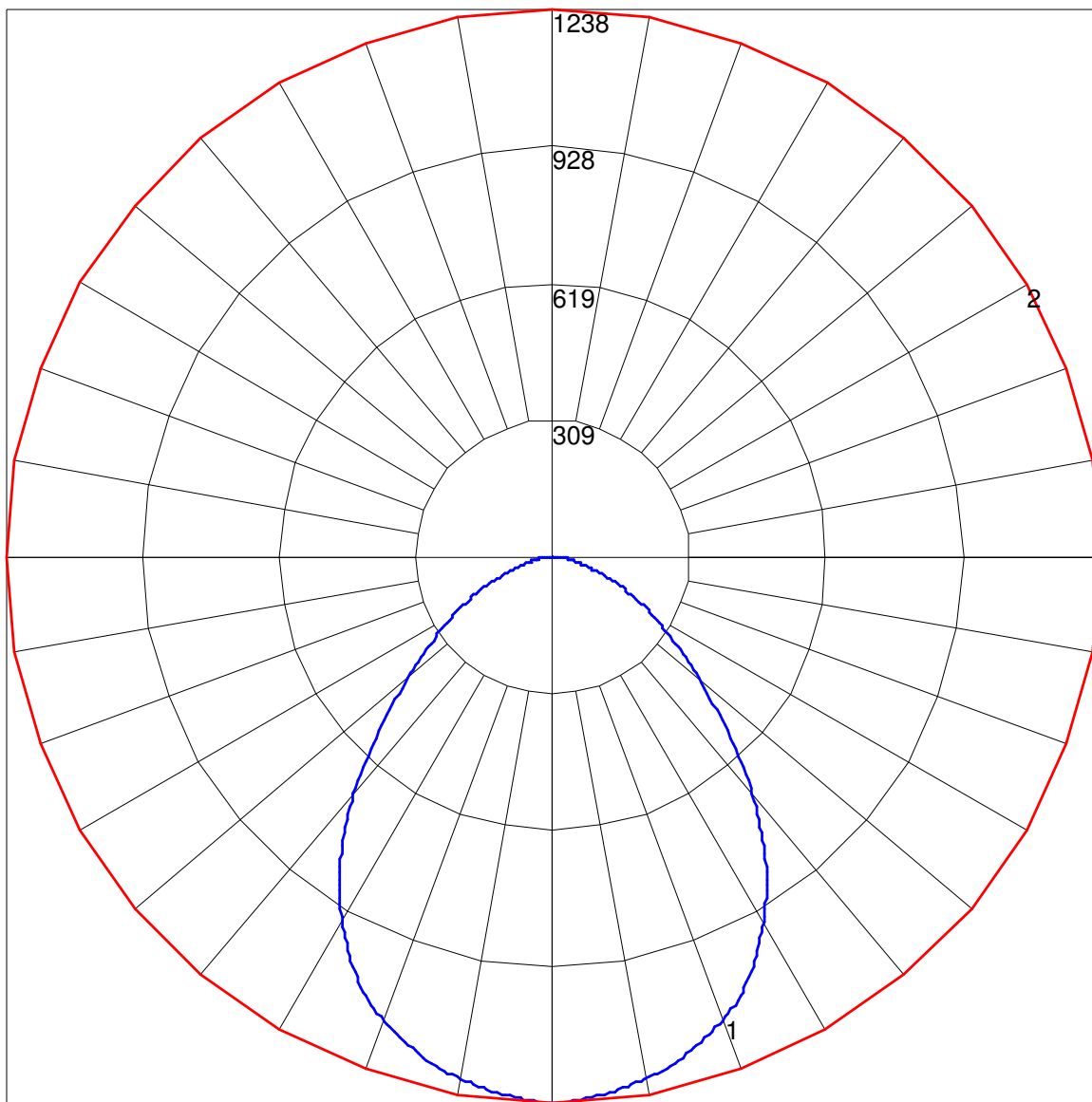
X=2H	Y=2H	22.4	23.9	22.8	24.2	24.5	22.4	23.9	22.8	24.2	24.5
	3H	23.5	24.8	23.9	25.2	25.5	23.5	24.8	23.9	25.2	25.5
	4H	23.8	25.0	24.2	25.4	25.7	23.8	25.0	24.2	25.4	25.7
	6H	24.0	25.1	24.4	25.5	25.9	24.0	25.1	24.4	25.5	25.9
	8H	24.0	25.1	24.4	25.5	25.9	24.0	25.1	24.4	25.5	25.9
	12H	24.1	25.1	24.5	25.5	25.9	24.1	25.1	24.5	25.5	25.9

### UGR Viewed Endwise

4H	2H	22.8	24.1	23.2	24.4	24.8	22.8	24.1	23.2	24.4	24.8
	3H	24.1	25.1	24.5	25.5	25.9	24.1	25.1	24.5	25.5	25.9
	4H	24.4	25.3	24.9	25.8	26.2	24.4	25.3	24.9	25.8	26.2
	6H	24.7	25.5	25.2	25.9	26.4	24.7	25.5	25.2	25.9	26.4
	8H	24.8	25.5	25.3	26.0	26.4	24.8	25.5	25.3	26.0	26.4
	12H	24.9	25.5	25.3	26.0	26.4	24.9	25.5	25.3	26.0	26.4
8H	4H	24.5	25.3	25.0	25.7	26.2	24.5	25.3	25.0	25.7	26.2
	6H	24.9	25.5	25.4	26.0	26.4	24.9	25.5	25.4	26.0	26.4
	8H	25.0	25.5	25.5	26.1	26.5	25.0	25.5	25.5	26.1	26.5
	12H	25.1	25.6	25.6	26.1	26.6	25.1	25.6	25.6	26.1	26.6
12H	4H	24.5	25.2	25.0	25.7	26.1	24.5	25.2	25.0	25.7	26.1
	6H	24.9	25.4	25.4	25.9	26.4	24.9	25.4	25.4	25.9	26.4
	8H	25.1	25.5	25.6	26.0	26.6	25.1	25.5	25.6	26.0	26.6

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 1237.594 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.)