

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L10-835-(L5)-DIM1-UNV-SW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12316380.11

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 02-11-2026

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 4DR-TL-L10-835-(L5)-DIM1-UNV-SW-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl

[MORE] astic lens enclosure

[LAMP] One white LED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Corridor, Hotel, Office, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	4.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.28
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	13356	13356	13356
55	11400	11400	11400
65	9724	9724	9724
75	8041	8041	8041
85	4976	4976	4976

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CANDELA TABULATION

	<u>0</u>
0.0	155.716
0.5	155.689
1.0	155.605
1.5	155.522
2.0	155.356
2.5	155.189
3.0	154.967
3.5	154.745
4.0	154.523
4.5	154.301
5.0	154.107
5.5	153.884
6.0	153.662
6.5	153.440
7.0	153.191
7.5	152.913
8.0	152.635
8.5	152.358
9.0	152.053
9.5	151.747
10.0	151.414
10.5	151.081
11.0	150.720
11.5	150.332
12.0	149.943
12.5	149.527
13.0	149.083
13.5	148.611
14.0	148.111
14.5	147.584
15.0	147.029
15.5	146.473
16.0	145.890
16.5	145.335
17.0	144.725
17.5	144.114
18.0	143.503
18.5	142.893
19.0	142.282
19.5	141.671
20.0	141.061
20.5	140.450
21.0	139.812
21.5	139.146
22.0	138.452
22.5	137.674
23.0	136.897
23.5	136.037
24.0	135.176
24.5	134.260
25.0	133.317
25.5	132.373
26.0	131.374
26.5	130.374

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4DR-TL-L10-835-(L5)-DIM1-UNV-SW-OF-WH_.IES****CANDELA TABULATION - (Cont.)**

27.0	129.347
27.5	128.293
28.0	127.238
28.5	126.211
29.0	125.184
29.5	124.129
30.0	123.102
30.5	122.020
31.0	120.909
31.5	119.827
32.0	118.716
32.5	117.606
33.0	116.468
33.5	115.302
34.0	114.164
34.5	112.999
35.0	111.833
35.5	110.639
36.0	109.446
36.5	108.224
37.0	107.003
37.5	105.782
38.0	104.533
38.5	103.256
39.0	102.035
39.5	100.758
40.0	99.481
40.5	98.232
41.0	96.927
41.5	95.678
42.0	94.374
42.5	93.097
43.0	91.792
43.5	90.460
44.0	89.128
44.5	87.795
45.0	86.435
45.5	85.103
46.0	83.743
46.5	82.383
47.0	81.023
47.5	79.635
48.0	78.275
48.5	76.887
49.0	75.527
49.5	74.167
50.0	72.806
50.5	71.474
51.0	70.142
51.5	68.809
52.0	67.505
52.5	66.200
53.0	64.923
53.5	63.647
54.0	62.370
54.5	61.121

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4DR-TL-L10-835-(L5)-DIM1-UNV-SW-OF-WH_.IES****CANDELA TABULATION - (Cont.)**

55.0	59.844
55.5	58.595
56.0	57.457
56.5	56.236
57.0	55.070
57.5	53.904
58.0	52.738
58.5	51.572
59.0	50.462
59.5	49.352
60.0	48.242
60.5	47.187
61.0	46.104
61.5	44.994
62.0	43.911
62.5	42.829
63.0	41.774
63.5	40.719
64.0	39.665
64.5	38.638
65.0	37.611
65.5	36.584
66.0	35.557
66.5	34.557
67.0	33.586
67.5	32.614
68.0	31.643
68.5	30.699
69.0	29.755
69.5	28.812
70.0	27.868
70.5	26.952
71.0	26.042
71.5	25.137
72.0	24.243
72.5	23.363
73.0	22.486
73.5	21.617
74.0	20.757
74.5	19.896
75.0	19.047
75.5	18.209
76.0	17.370
76.5	16.540
77.0	15.722
77.5	14.905
78.0	14.101
78.5	13.309
79.0	12.524
79.5	11.747
80.0	10.989
80.5	10.242
81.0	9.504
81.5	8.771
82.0	8.052
82.5	7.344

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CANDELA TABULATION - (Cont.)

83.0	6.645
83.5	5.954
84.0	5.279
84.5	4.616
85.0	3.969
85.5	3.350
86.0	2.773
86.5	2.268
87.0	1.807
87.5	1.393
88.0	1.038
88.5	0.758
89.0	0.527
89.5	0.341
90.0	0.211
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**PHOTOMETRIC FILENAME : 4DR-TL-L10-835-(L5)-DIM1-UNV-SW-OF-WH_.IES****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

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Zone	Lumens	%Lamp	%Fixt
0-20	56.07	N.A.	15.20
0-30	117.31	N.A.	31.70
0-40	187.14	N.A.	50.60
0-60	307.39	N.A.	83.10
0-80	364.95	N.A.	98.70
0-90	369.86	N.A.	100.00
10-90	355.23	N.A.	96.00
20-40	131.07	N.A.	35.40
20-50	197.64	N.A.	53.40
40-70	157.61	N.A.	42.60
60-80	57.56	N.A.	15.60
70-80	20.21	N.A.	5.50
80-90	4.91	N.A.	1.30
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	369.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.63
10-20	41.44
20-30	61.25
30-40	69.82
40-50	66.56
50-60	53.69
60-70	37.35
70-80	20.21
80-90	4.91
90-100	0.01
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	65	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

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UGR TABLE - CORRECTED

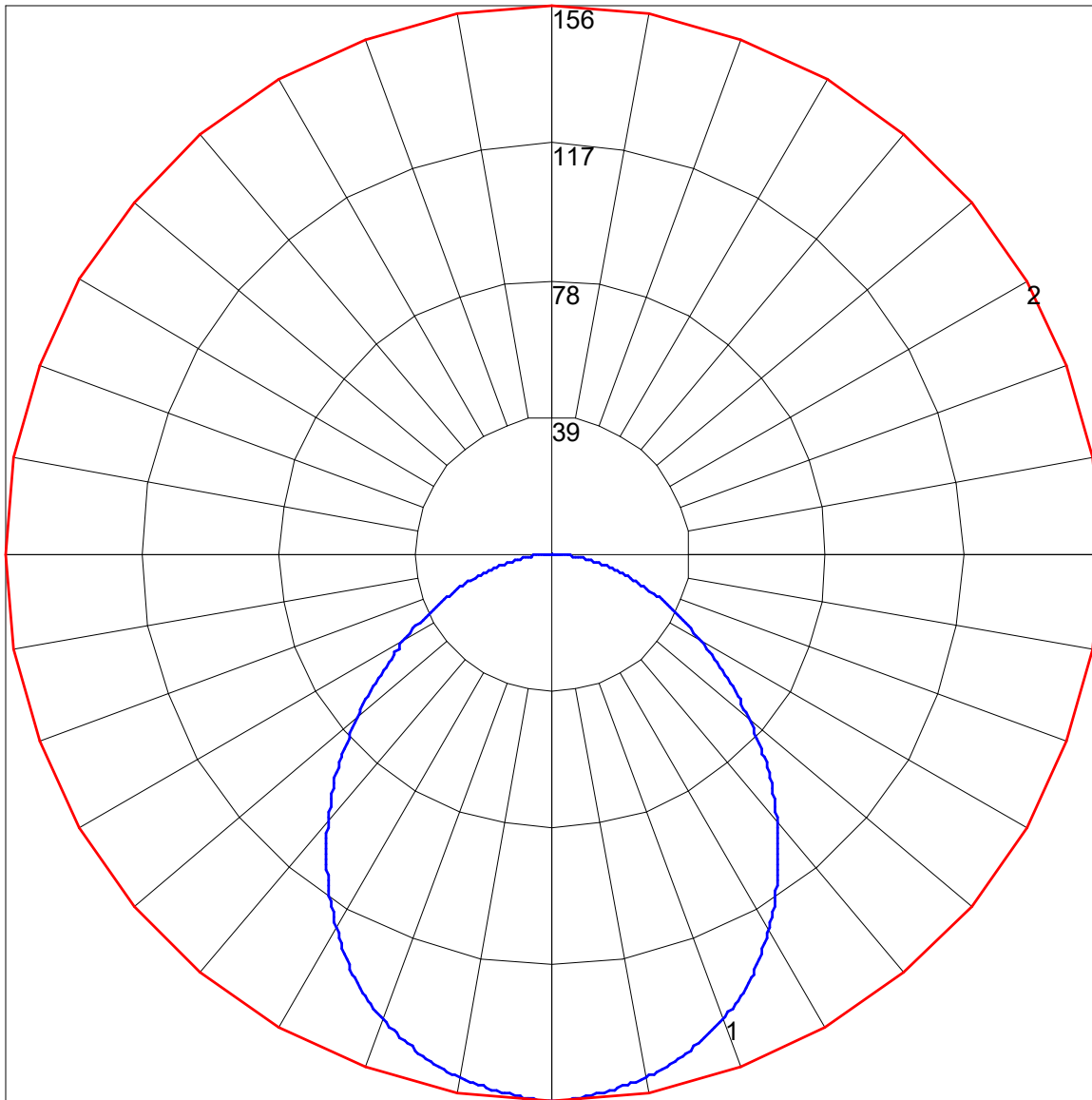
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.3	20.9	19.7	21.2	21.5	19.3	20.9	19.7	21.2	21.5
	3H	20.9	22.3	21.3	22.6	23.0	20.9	22.3	21.3	22.6	23.0
	4H	21.5	22.8	21.9	23.1	23.5	21.5	22.8	21.9	23.1	23.5
	6H	21.9	23.1	22.3	23.5	23.9	21.9	23.1	22.3	23.5	23.9
	8H	22.0	23.2	22.4	23.5	23.9	22.0	23.2	22.4	23.5	23.9
	12H	22.1	23.2	22.5	23.5	24.0	22.1	23.2	22.5	23.5	24.0
4H	2H	19.9	21.2	20.3	21.6	21.9	19.9	21.2	20.3	21.6	21.9
	3H	21.7	22.8	22.1	23.2	23.6	21.7	22.8	22.1	23.2	23.6
	4H	22.4	23.4	22.8	23.8	24.2	22.4	23.4	22.8	23.8	24.2
	6H	22.9	23.8	23.3	24.2	24.7	22.9	23.8	23.3	24.2	24.7
	8H	23.0	23.9	23.5	24.3	24.8	23.0	23.9	23.5	24.3	24.8
	12H	23.1	23.9	23.6	24.3	24.8	23.1	23.9	23.6	24.3	24.8
8H	4H	22.6	23.4	23.1	23.9	24.3	22.6	23.4	23.1	23.9	24.3
	6H	23.2	23.9	23.7	24.4	24.9	23.2	23.9	23.7	24.4	24.9
	8H	23.5	24.1	24.0	24.6	25.1	23.5	24.1	24.0	24.6	25.1
	12H	23.6	24.1	24.1	24.6	25.2	23.6	24.1	24.1	24.6	25.2
12H	4H	22.6	23.4	23.1	23.8	24.3	22.6	23.4	23.1	23.8	24.3
	6H	23.3	23.9	23.8	24.4	24.9	23.3	23.9	23.8	24.4	24.9
	8H	23.5	24.1	24.0	24.6	25.1	23.5	24.1	24.0	24.6	25.1

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 155.716 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.)