

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L10-835-WH-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.04
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-11
[TEST DATE] 11/12/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6LDR-L10-835-WH-DIM-UNV
[LUMINAIRE] 6" recessed downlight with textured white finish reflector
[MORE] and top diffuser lens
[LAMP] LED
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	878
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	9.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.02
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	10587	10587	10587
55	7797	7797	7797
65	5859	5859	5859
75	4441	4441	4441
85	3239	3239	3239

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CANDELA TABULATION

	<u>0</u>
0.0	618.766
0.5	618.766
1.0	618.458
1.5	618.149
2.0	617.532
2.5	617.532
3.0	616.606
3.5	615.989
4.0	614.754
4.5	613.828
5.0	612.903
5.5	611.668
6.0	610.125
6.5	608.891
7.0	607.348
7.5	605.496
8.0	603.644
8.5	601.793
9.0	599.941
9.5	597.781
10.0	595.620
10.5	593.151
11.0	590.683
11.5	588.214
12.0	585.745
12.5	582.967
13.0	580.190
13.5	577.104
14.0	574.326
14.5	570.931
15.0	568.154
15.5	564.759
16.0	561.365
16.5	558.278
17.0	554.575
17.5	551.180
18.0	547.477
18.5	543.774
19.0	540.070
19.5	536.367
20.0	532.046
20.5	528.343
21.0	524.331
21.5	520.319
22.0	515.999
22.5	511.678
23.0	507.049
23.5	502.111
24.0	496.865
24.5	491.310
25.0	485.446
25.5	479.274
26.0	472.176
26.5	464.769

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CANDELA TABULATION - (Cont.)

27.0	456.745
27.5	448.413
28.0	439.463
28.5	430.205
29.0	420.638
29.5	410.453
30.0	400.269
30.5	390.702
31.0	380.209
31.5	370.025
32.0	359.533
32.5	348.731
33.0	337.930
33.5	327.437
34.0	316.944
34.5	306.451
35.0	296.144
35.5	286.021
36.0	276.115
36.5	266.270
37.0	256.672
37.5	247.167
38.0	237.878
38.5	228.743
39.0	219.762
39.5	211.059
40.0	202.573
40.5	194.333
41.0	186.432
41.5	178.871
42.0	171.650
42.5	164.829
43.0	158.379
43.5	152.331
44.0	146.714
44.5	141.498
45.0	136.684
45.5	132.209
46.0	128.136
46.5	124.309
47.0	120.821
47.5	117.612
48.0	114.557
48.5	111.748
49.0	109.032
49.5	106.440
50.0	103.971
50.5	101.533
51.0	99.157
51.5	96.811
52.0	94.528
52.5	92.337
53.0	90.145
53.5	88.016
54.0	85.887
54.5	83.757

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CANDELA TABULATION - (Cont.)

55.0	81.659
55.5	79.560
56.0	77.431
56.5	75.394
57.0	73.357
57.5	71.351
58.0	69.376
58.5	67.432
59.0	65.518
59.5	63.667
60.0	61.815
60.5	60.025
61.0	58.235
61.5	56.507
62.0	54.809
62.5	53.112
63.0	51.476
63.5	49.872
64.0	48.267
64.5	46.724
65.0	45.212
65.5	43.761
66.0	42.311
66.5	40.891
67.0	39.502
67.5	38.144
68.0	36.817
68.5	35.552
69.0	34.256
69.5	33.021
70.0	31.818
70.5	30.614
71.0	29.472
71.5	28.300
72.0	27.189
72.5	26.109
73.0	25.028
73.5	24.010
74.0	22.992
74.5	21.973
75.0	20.986
75.5	20.029
76.0	19.103
76.5	18.177
77.0	17.282
77.5	16.387
78.0	15.523
78.5	14.659
79.0	13.826
79.5	13.023
80.0	12.221
80.5	11.449
81.0	10.678
81.5	9.937
82.0	9.197
82.5	8.487

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CANDELA TABULATION - (Cont.)

83.0	7.777
83.5	7.098
84.0	6.419
84.5	5.771
85.0	5.154
85.5	4.537
86.0	3.919
86.5	3.333
87.0	2.747
87.5	2.191
88.0	1.636
88.5	1.111
89.0	0.648
89.5	0.339
90.0	0.000
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
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118.5	0.000
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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
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155.5	0.000
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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	217.60	N.A.	24.80
0-30	437.26	N.A.	49.80
0-40	622.01	N.A.	70.80
0-60	804.45	N.A.	91.60
0-80	872.17	N.A.	99.30
0-90	878.07	N.A.	100.00
10-90	820.13	N.A.	93.40
20-40	404.41	N.A.	46.10
20-50	513.68	N.A.	58.50
40-70	227.66	N.A.	25.90
60-80	67.72	N.A.	7.70
70-80	22.49	N.A.	2.60
80-90	5.90	N.A.	0.70
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	878.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.95
10-20	159.66
20-30	219.66
30-40	184.75
40-50	109.26
50-60	73.17
60-70	45.23
70-80	22.49
80-90	5.90
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	39	38

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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	16.2	17.5	16.5	17.8	18.1	16.2	17.5	16.5	17.8	18.1
	3H	17.4	18.6	17.8	18.9	19.3	17.4	18.6	17.8	18.9	19.3
	4H	17.8	18.9	18.2	19.3	19.6	17.8	18.9	18.2	19.3	19.6
	6H	18.1	19.1	18.5	19.5	19.9	18.1	19.1	18.5	19.5	19.9
	8H	18.2	19.1	18.6	19.5	19.9	18.2	19.1	18.6	19.5	19.9
	12H	18.2	19.1	18.7	19.5	20.0	18.2	19.1	18.7	19.5	20.0

UGR Viewed Endwise

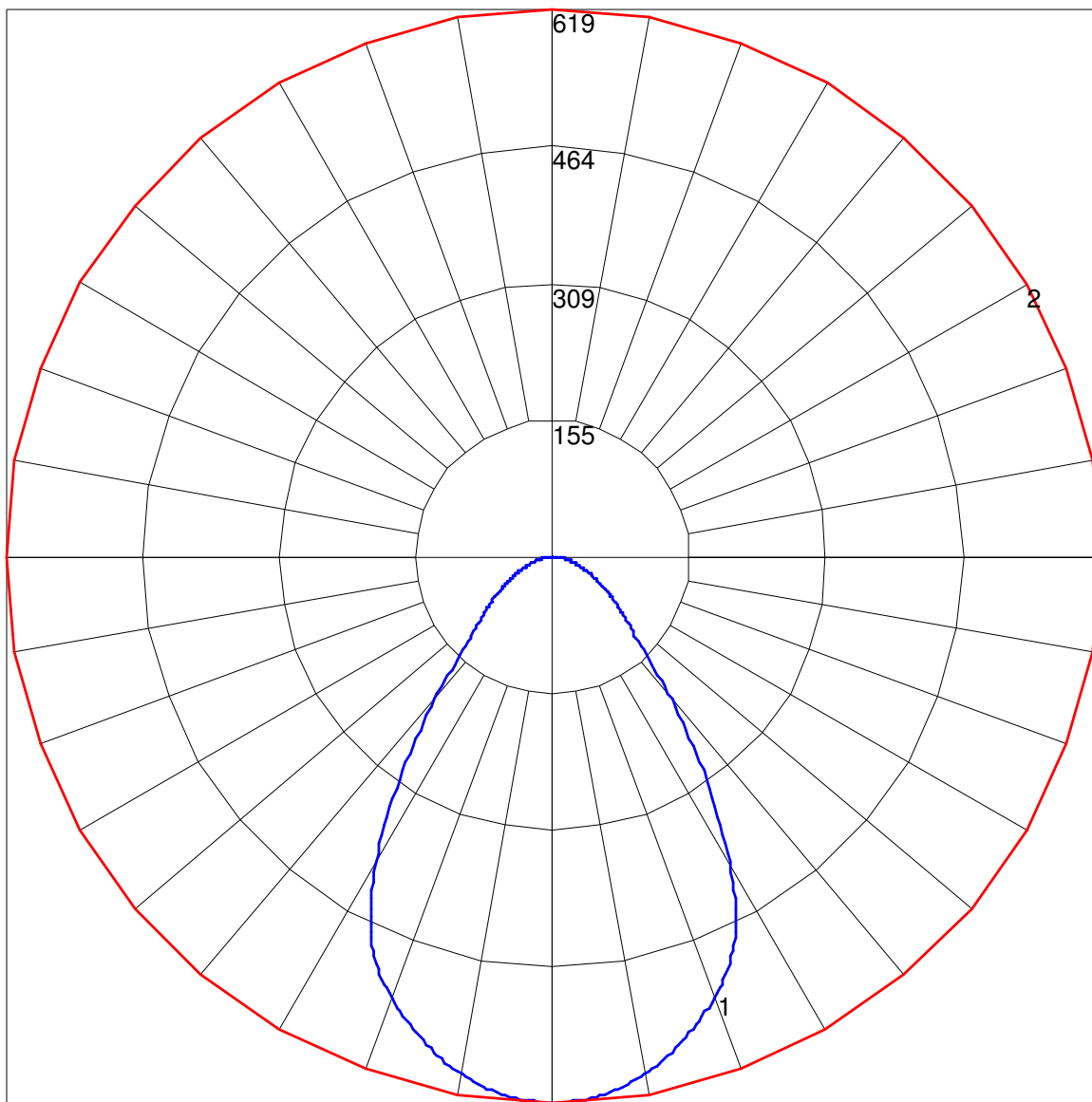
4H	2H	16.6	17.7	17.0	18.0	18.4	16.6	17.7	17.0	18.0	18.4
	3H	18.0	18.9	18.4	19.3	19.7	18.0	18.9	18.4	19.3	19.7
	4H	18.5	19.3	18.9	19.7	20.2	18.5	19.3	18.9	19.7	20.2
	6H	18.9	19.6	19.4	20.1	20.5	18.9	19.6	19.4	20.1	20.5
	8H	19.1	19.7	19.5	20.1	20.6	19.1	19.7	19.5	20.1	20.6
	12H	19.1	19.7	19.6	20.2	20.7	19.1	19.7	19.6	20.2	20.7

8H	4H	18.7	19.3	19.2	19.8	20.2	18.7	19.3	19.2	19.8	20.2
	6H	19.2	19.7	19.7	20.2	20.7	19.2	19.7	19.7	20.2	20.7
	8H	19.4	19.8	19.9	20.4	20.8	19.4	19.8	19.9	20.4	20.8
	12H	19.5	19.9	20.0	20.4	21.0	19.5	19.9	20.0	20.4	21.0

12H	4H	18.7	19.2	19.2	19.7	20.2	18.7	19.2	19.2	19.7	20.2
	6H	19.2	19.7	19.7	20.1	20.7	19.2	19.7	19.7	20.1	20.7
	8H	19.4	19.8	19.9	20.3	20.9	19.4	19.8	19.9	20.3	20.9

Maximum UGR = 21.0

POLAR GRAPH



Maximum Candela = 618.766 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.)