

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-835-CS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.03
[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-CS-DIM-UNV
[LUMINAIRE] 6" recessed downlight with clear semi-specular finish refl
[MORE] ector 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	1025
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	9.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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	10255	10255	10255
55	1123	1123	1123
65	124	124	124
75	46	46	46
85	39	39	39

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CANDELA TABULATION

	<u>0</u>
0.0	1131.184
0.5	1131.184
1.0	1131.184
1.5	1131.803
2.0	1132.422
2.5	1133.042
3.0	1133.661
3.5	1133.970
4.0	1133.351
4.5	1132.113
5.0	1129.636
5.5	1126.231
6.0	1121.278
6.5	1115.705
7.0	1108.895
7.5	1101.465
8.0	1091.559
8.5	1081.962
9.0	1070.817
9.5	1058.125
10.0	1045.432
10.5	1031.501
11.0	1016.642
11.5	1000.544
12.0	985.684
12.5	969.586
13.0	952.560
13.5	938.939
14.0	923.150
14.5	907.981
15.0	894.360
15.5	881.667
16.0	867.427
16.5	856.901
17.0	845.447
17.5	833.993
18.0	823.777
18.5	812.632
19.0	802.726
19.5	793.129
20.0	783.532
20.5	773.935
21.0	764.339
21.5	754.742
22.0	745.145
22.5	734.620
23.0	724.713
23.5	714.188
24.0	703.353
24.5	692.208
25.0	680.444
25.5	668.061
26.0	655.369
26.5	641.747

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CANDELA TABULATION - (Cont.)

27.0	627.816
27.5	613.576
28.0	598.407
28.5	583.238
29.0	567.449
29.5	551.971
30.0	535.563
30.5	519.465
31.0	503.058
31.5	486.960
32.0	470.553
32.5	454.145
33.0	438.047
33.5	422.259
34.0	406.161
34.5	390.683
35.0	376.752
35.5	361.892
36.0	347.033
36.5	332.483
37.0	317.933
37.5	303.599
38.0	289.607
38.5	275.862
39.0	262.426
39.5	249.300
40.0	236.484
40.5	224.132
41.0	212.058
41.5	200.480
42.0	189.305
42.5	178.624
43.0	168.408
43.5	158.719
44.0	149.431
44.5	140.701
45.0	132.405
45.5	124.511
46.0	117.019
46.5	109.868
47.0	103.026
47.5	96.463
48.0	90.148
48.5	84.018
49.0	77.982
49.5	72.069
50.0	66.218
50.5	60.398
51.0	54.609
51.5	48.758
52.0	42.938
52.5	37.025
53.0	31.174
53.5	25.540
54.0	20.308
54.5	15.695

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CANDELA TABULATION - (Cont.)

55.0	11.764
55.5	8.730
56.0	6.594
56.5	5.170
57.0	4.272
57.5	3.653
58.0	3.189
58.5	2.848
59.0	2.569
59.5	2.322
60.0	2.105
60.5	1.950
61.0	1.765
61.5	1.641
62.0	1.517
62.5	1.393
63.0	1.269
63.5	1.176
64.0	1.114
64.5	1.022
65.0	0.960
65.5	0.867
66.0	0.836
66.5	0.774
67.0	0.712
67.5	0.650
68.0	0.619
68.5	0.557
69.0	0.526
69.5	0.495
70.0	0.464
70.5	0.433
71.0	0.402
71.5	0.371
72.0	0.341
72.5	0.310
73.0	0.279
73.5	0.279
74.0	0.248
74.5	0.248
75.0	0.217
75.5	0.217
76.0	0.186
76.5	0.186
77.0	0.155
77.5	0.155
78.0	0.155
78.5	0.124
79.0	0.124
79.5	0.124
80.0	0.093
80.5	0.093
81.0	0.093
81.5	0.093
82.0	0.093
82.5	0.062

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CANDELA TABULATION - (Cont.)

83.0	0.062
83.5	0.062
84.0	0.062
84.5	0.062
85.0	0.062
85.5	0.062
86.0	0.031
86.5	0.031
87.0	0.031
87.5	0.031
88.0	0.031
88.5	0.031
89.0	0.031
89.5	0.031
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
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
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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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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	356.96	N.A.	34.80
0-30	664.81	N.A.	64.90
0-40	899.43	N.A.	87.80
0-60	1023.54	N.A.	99.90
0-80	1024.83	N.A.	100.00
0-90	1024.89	N.A.	100.00
10-90	919.70	N.A.	89.70
20-40	542.48	N.A.	52.90
20-50	648.27	N.A.	63.30
40-70	125.14	N.A.	12.20
60-80	1.29	N.A.	0.10
70-80	0.25	N.A.	0.00
80-90	0.06	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	1024.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.19
10-20	251.77
20-30	307.86
30-40	234.62
40-50	105.79
50-60	18.31
60-70	1.04
70-80	0.25
80-90	0.06
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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	82	76	72	89	81	76	72	80	75	71	78	74	70	76	73	70	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48

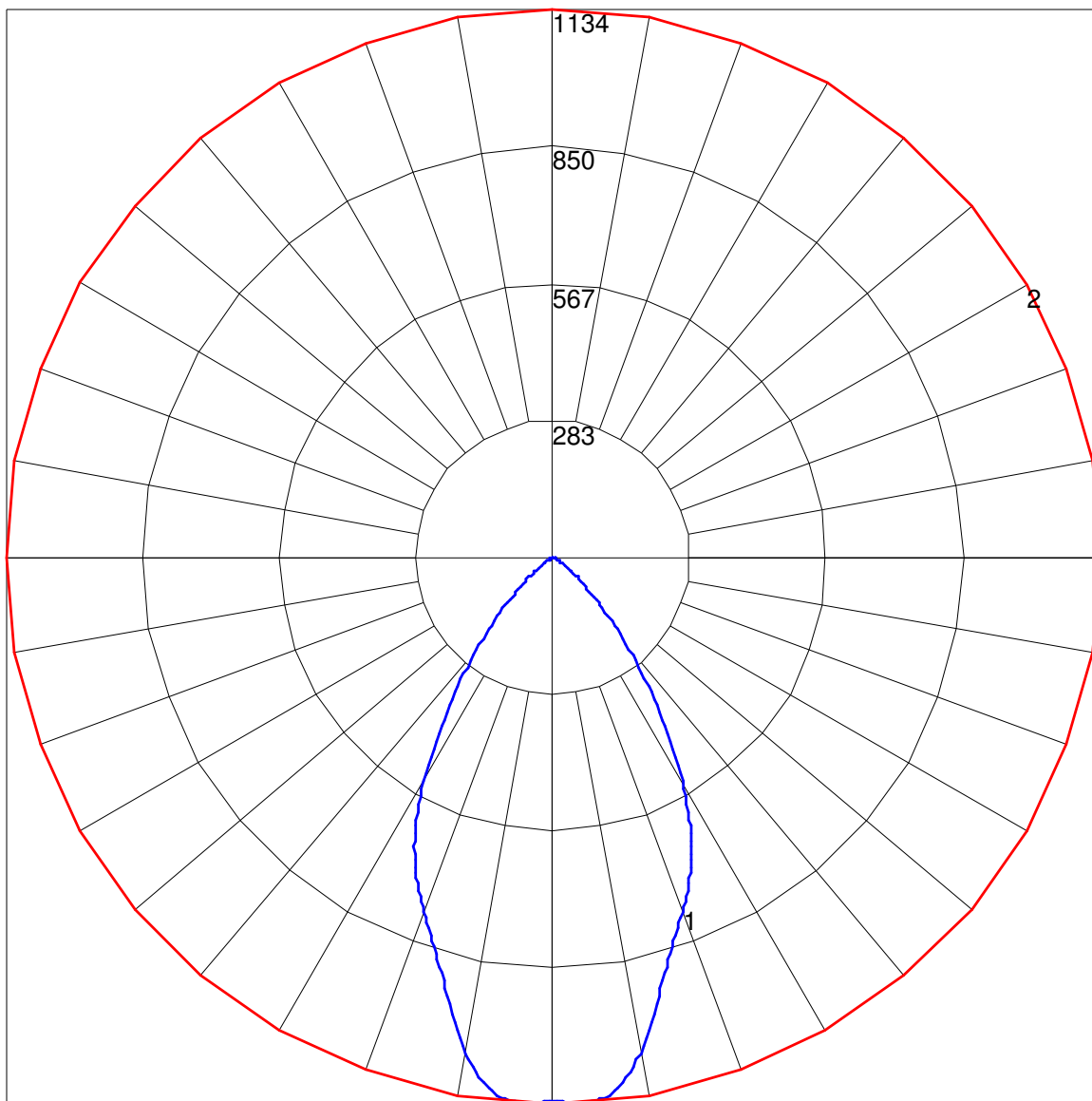
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UGR TABLE - CORRECTED

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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	12H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4H	2H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	12H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8H	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	12H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12H	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Maximum UGR = 0.1

POLAR GRAPH



Maximum Candela = 1133.97 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.)