

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-835-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
[MANUFACT] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6LDR-L30-835-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	3047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	26
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	30486	30486	30486
55	3339	3339	3339
65	370	370	370
75	136	136	136
85	116	116	116

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CANDELA TABULATION

	<u>0</u>
0.0	3362.651
0.5	3362.651
1.0	3362.651
1.5	3364.492
2.0	3366.332
2.5	3368.173
3.0	3370.013
3.5	3370.934
4.0	3369.093
4.5	3365.412
5.0	3358.050
5.5	3347.927
6.0	3333.203
6.5	3316.638
7.0	3296.392
7.5	3274.306
8.0	3244.857
8.5	3216.329
9.0	3183.199
9.5	3145.468
10.0	3107.738
10.5	3066.326
11.0	3022.153
11.5	2974.299
12.0	2930.126
12.5	2882.272
13.0	2831.658
13.5	2791.166
14.0	2744.233
14.5	2699.140
15.0	2658.648
15.5	2620.917
16.0	2578.585
16.5	2547.296
17.0	2513.246
17.5	2479.196
18.0	2448.827
18.5	2415.698
19.0	2386.249
19.5	2357.721
20.0	2329.193
20.5	2300.664
21.0	2272.136
21.5	2243.608
22.0	2215.080
22.5	2183.791
23.0	2154.342
23.5	2123.053
24.0	2090.844
24.5	2057.714
25.0	2022.744
25.5	1985.934
26.0	1948.203
26.5	1907.711

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CANDELA TABULATION - (Cont.)

27.0	1866.299
27.5	1823.967
28.0	1778.874
28.5	1733.781
29.0	1686.847
29.5	1640.834
30.0	1592.060
30.5	1544.206
31.0	1495.432
31.5	1447.578
32.0	1398.804
32.5	1350.030
33.0	1302.176
33.5	1255.243
34.0	1207.389
34.5	1161.375
35.0	1119.963
35.5	1075.791
36.0	1031.618
36.5	988.365
37.0	945.113
37.5	902.505
38.0	860.909
38.5	820.049
39.0	780.109
39.5	741.090
40.0	702.991
40.5	666.272
41.0	630.382
41.5	595.964
42.0	562.743
42.5	530.993
43.0	500.625
43.5	471.820
44.0	444.212
44.5	418.261
45.0	393.598
45.5	370.131
46.0	347.860
46.5	326.602
47.0	306.264
47.5	286.755
48.0	267.981
48.5	249.760
49.0	231.815
49.5	214.238
50.0	196.845
50.5	179.544
51.0	162.335
51.5	144.942
52.0	127.641
52.5	110.064
53.0	92.671
53.5	75.922
54.0	60.369
54.5	46.657

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CANDELA TABULATION - (Cont.)

55.0	34.970
55.5	25.951
56.0	19.602
56.5	15.368
57.0	12.700
57.5	10.859
58.0	9.479
58.5	8.466
59.0	7.638
59.5	6.902
60.0	6.258
60.5	5.798
61.0	5.246
61.5	4.877
62.0	4.509
62.5	4.141
63.0	3.773
63.5	3.497
64.0	3.313
64.5	3.037
65.0	2.853
65.5	2.577
66.0	2.485
66.5	2.301
67.0	2.117
67.5	1.933
68.0	1.841
68.5	1.656
69.0	1.564
69.5	1.472
70.0	1.380
70.5	1.288
71.0	1.196
71.5	1.104
72.0	1.012
72.5	0.920
73.0	0.828
73.5	0.828
74.0	0.736
74.5	0.736
75.0	0.644
75.5	0.644
76.0	0.552
76.5	0.552
77.0	0.460
77.5	0.460
78.0	0.460
78.5	0.368
79.0	0.368
79.5	0.368
80.0	0.276
80.5	0.276
81.0	0.276
81.5	0.276
82.0	0.276
82.5	0.184

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CANDELA TABULATION - (Cont.)

83.0	0.184
83.5	0.184
84.0	0.184
84.5	0.184
85.0	0.184
85.5	0.184
86.0	0.092
86.5	0.092
87.0	0.092
87.5	0.092
88.0	0.092
88.5	0.092
89.0	0.092
89.5	0.092
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
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129.5	0.000
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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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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
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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	1061.13	N.A.	34.80
0-30	1976.28	N.A.	64.90
0-40	2673.73	N.A.	87.80
0-60	3042.66	N.A.	99.90
0-80	3046.5	N.A.	100.00
0-90	3046.68	N.A.	100.00
10-90	2733.99	N.A.	89.70
20-40	1612.61	N.A.	52.90
20-50	1927.09	N.A.	63.30
40-70	372.01	N.A.	12.20
60-80	3.84	N.A.	0.10
70-80	0.75	N.A.	0.00
80-90	0.18	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	3046.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	312.69
10-20	748.44
20-30	915.16
30-40	697.45
40-50	314.48
50-60	54.44
60-70	3.09
70-80	0.75
80-90	0.18
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

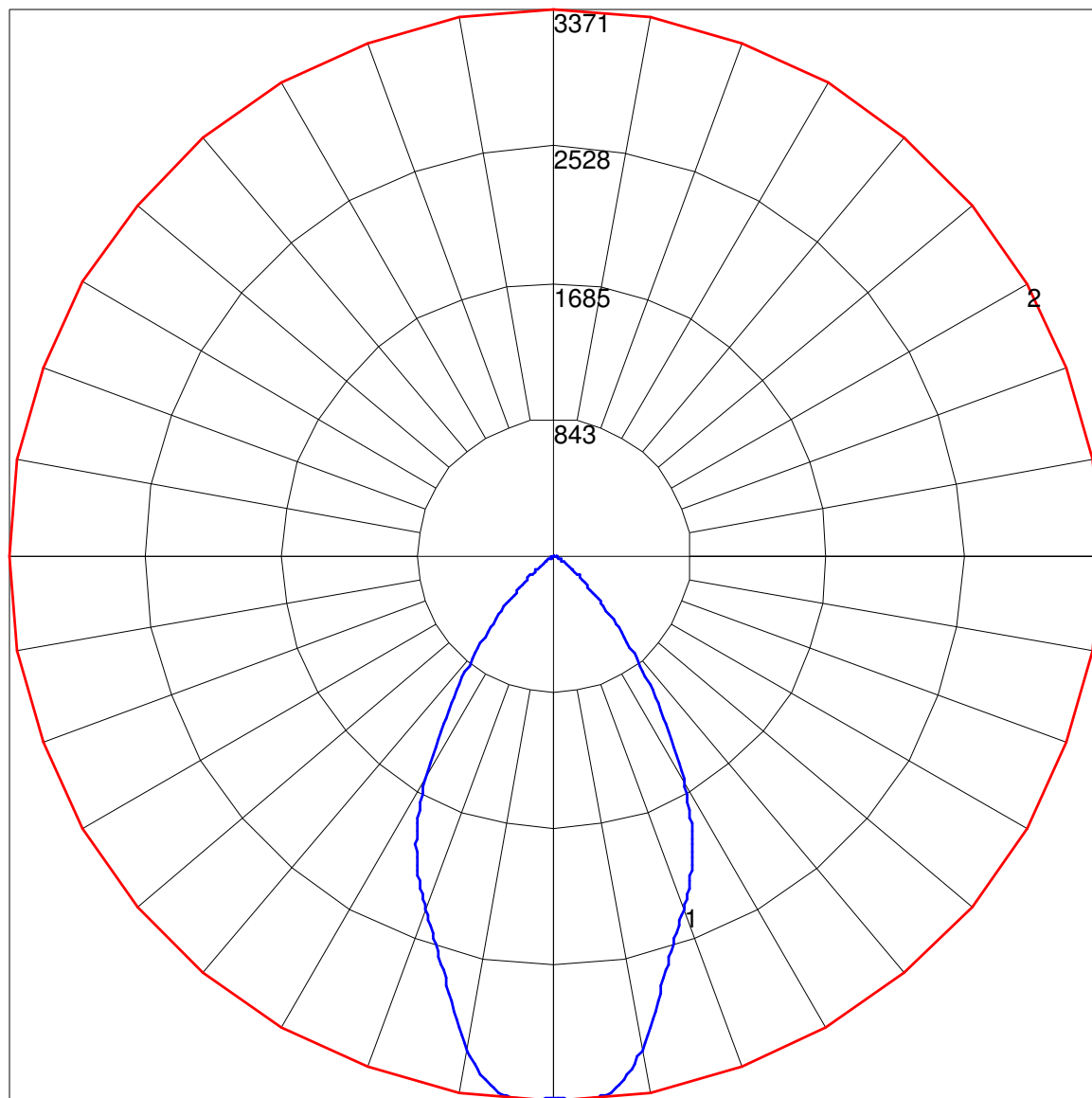
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UGR TABLE - CORRECTED

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	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	3H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	12H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
4H	2H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	3H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	12H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
8H	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	12H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
12H	4H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	6H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	8H	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9

Maximum UGR = 3.9

POLAR GRAPH



Maximum Candela = 3370.934 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.)