

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-830-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-L30-830-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	3016
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	30181	30181	30181
55	3306	3306	3306
65	366	366	366
75	135	135	135
85	114	114	114

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CANDELA TABULATION

	<u>0</u>
0.0	3329.024
0.5	3329.024
1.0	3329.024
1.5	3330.847
2.0	3332.669
2.5	3334.491
3.0	3336.313
3.5	3337.224
4.0	3335.402
4.5	3331.758
5.0	3324.469
5.5	3314.447
6.0	3299.870
6.5	3283.471
7.0	3263.428
7.5	3241.562
8.0	3212.408
8.5	3184.165
9.0	3151.367
9.5	3114.014
10.0	3076.660
10.5	3035.662
11.0	2991.931
11.5	2944.556
12.0	2900.825
12.5	2853.450
13.0	2803.341
13.5	2763.254
14.0	2716.790
14.5	2672.148
15.0	2632.061
15.5	2594.708
16.0	2552.799
16.5	2521.823
17.0	2488.113
17.5	2454.404
18.0	2424.339
18.5	2391.541
19.0	2362.387
19.5	2334.144
20.0	2305.901
20.5	2277.658
21.0	2249.415
21.5	2221.172
22.0	2192.929
22.5	2161.953
23.0	2132.799
23.5	2101.823
24.0	2069.935
24.5	2037.137
25.0	2002.517
25.5	1966.074
26.0	1928.721
26.5	1888.634

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

27.0	1847.636
27.5	1805.727
28.0	1761.085
28.5	1716.443
29.0	1669.979
29.5	1624.425
30.0	1576.139
30.5	1528.764
31.0	1480.477
31.5	1433.102
32.0	1384.816
32.5	1336.530
33.0	1289.154
33.5	1242.690
34.0	1195.315
34.5	1149.762
35.0	1108.764
35.5	1065.033
36.0	1021.302
36.5	978.482
37.0	935.662
37.5	893.480
38.0	852.300
38.5	811.848
39.0	772.308
39.5	733.679
40.0	695.961
40.5	659.610
41.0	624.078
41.5	590.004
42.0	557.115
42.5	525.683
43.0	495.618
43.5	467.102
44.0	439.770
44.5	414.078
45.0	389.662
45.5	366.430
46.0	344.382
46.5	323.336
47.0	303.202
47.5	283.887
48.0	265.302
48.5	247.263
49.0	229.497
49.5	212.095
50.0	194.876
50.5	177.748
51.0	160.712
51.5	143.492
52.0	126.364
52.5	108.963
53.0	91.744
53.5	75.163
54.0	59.766
54.5	46.191

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-830-CS-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	34.620
55.5	25.692
56.0	19.406
56.5	15.215
57.0	12.573
57.5	10.751
58.0	9.384
58.5	8.382
59.0	7.562
59.5	6.833
60.0	6.195
60.5	5.740
61.0	5.193
61.5	4.829
62.0	4.464
62.5	4.100
63.0	3.735
63.5	3.462
64.0	3.280
64.5	3.007
65.0	2.824
65.5	2.551
66.0	2.460
66.5	2.278
67.0	2.095
67.5	1.913
68.0	1.822
68.5	1.640
69.0	1.549
69.5	1.458
70.0	1.367
70.5	1.275
71.0	1.184
71.5	1.093
72.0	1.002
72.5	0.911
73.0	0.820
73.5	0.820
74.0	0.729
74.5	0.729
75.0	0.638
75.5	0.638
76.0	0.547
76.5	0.547
77.0	0.456
77.5	0.456
78.0	0.456
78.5	0.364
79.0	0.364
79.5	0.364
80.0	0.273
80.5	0.273
81.0	0.273
81.5	0.273
82.0	0.273
82.5	0.182

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-830-CS-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	0.182
83.5	0.182
84.0	0.182
84.5	0.182
85.0	0.182
85.5	0.182
86.0	0.091
86.5	0.091
87.0	0.091
87.5	0.091
88.0	0.091
88.5	0.091
89.0	0.091
89.5	0.091
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-830-CS-DIM-UNV_.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
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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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-830-CS-DIM-UNV_.IES

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
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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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-830-CS-DIM-UNV_.IES

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	1050.51	N.A.	34.80
0-30	1956.52	N.A.	64.90
0-40	2647.00	N.A.	87.80
0-60	3012.23	N.A.	99.90
0-80	3016.04	N.A.	100.00
0-90	3016.21	N.A.	100.00
10-90	2706.65	N.A.	89.70
20-40	1596.48	N.A.	52.90
20-50	1907.82	N.A.	63.30
40-70	368.29	N.A.	12.20
60-80	3.80	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	3016.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	309.56
10-20	740.95
20-30	906.01
30-40	690.48
40-50	311.34
50-60	53.90
60-70	3.06
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	82	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	62	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

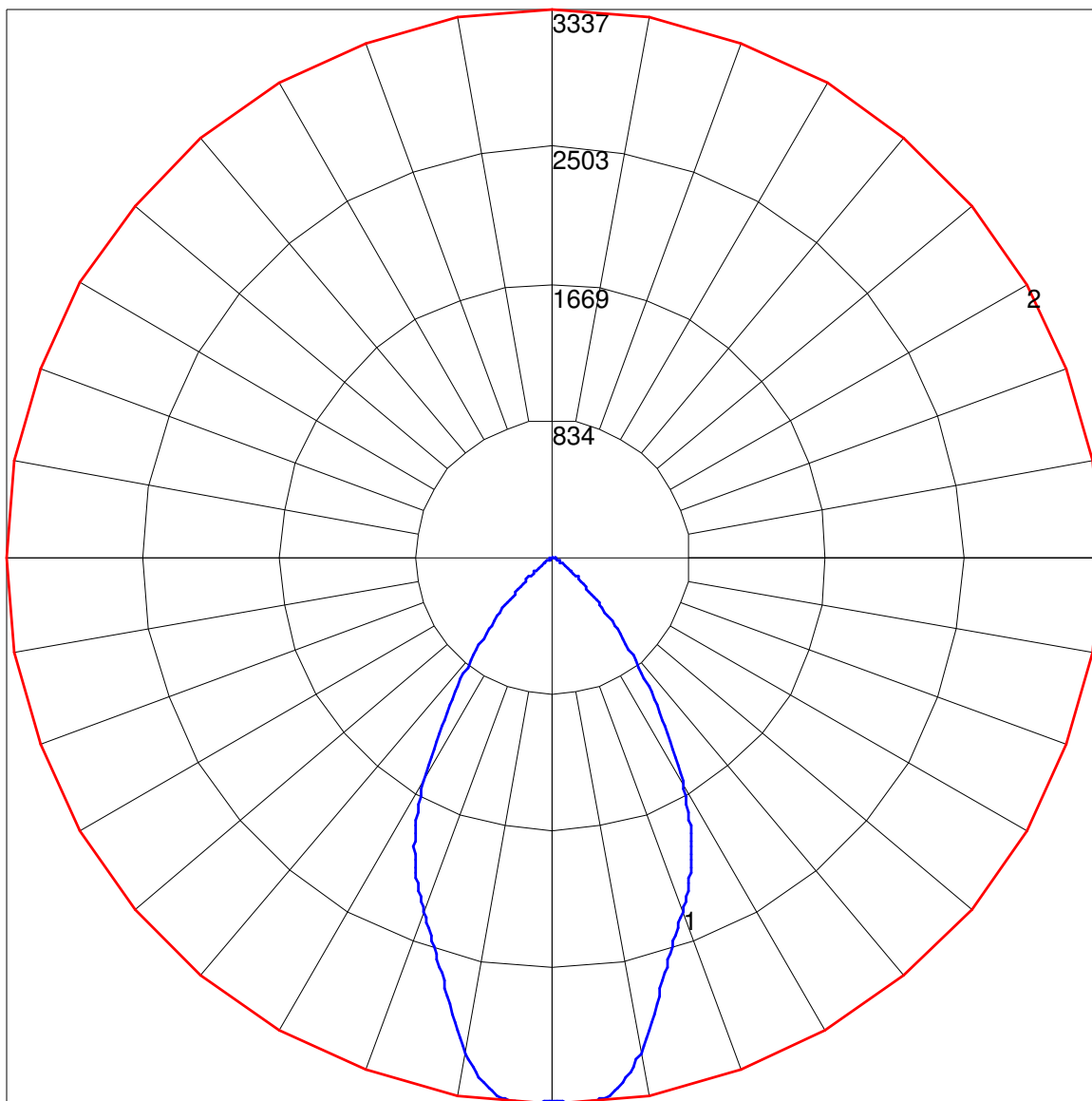
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UGR TABLE - CORRECTED

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 = 3337.224 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.)