

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-930-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-L30-930-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	2498
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	24999	24999	24999
55	2738	2738	2738
65	303	303	303
75	112	112	112
85	95	95	95

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CANDELA TABULATION

	<u>0</u>
0.0	2757.374
0.5	2757.374
1.0	2757.374
1.5	2758.883
2.0	2760.392
2.5	2761.902
3.0	2763.411
3.5	2764.165
4.0	2762.656
4.5	2759.638
5.0	2753.601
5.5	2745.300
6.0	2733.226
6.5	2719.643
7.0	2703.041
7.5	2684.931
8.0	2660.783
8.5	2637.390
9.0	2610.223
9.5	2579.284
10.0	2548.345
10.5	2514.387
11.0	2478.165
11.5	2438.925
12.0	2402.703
12.5	2363.463
13.0	2321.959
13.5	2288.756
14.0	2250.271
14.5	2213.294
15.0	2180.091
15.5	2149.152
16.0	2114.439
16.5	2088.782
17.0	2060.862
17.5	2032.941
18.0	2008.038
18.5	1980.872
19.0	1956.724
19.5	1933.331
20.0	1909.938
20.5	1886.545
21.0	1863.152
21.5	1839.759
22.0	1816.365
22.5	1790.708
23.0	1766.561
23.5	1740.904
24.0	1714.492
24.5	1687.326
25.0	1658.650
25.5	1628.465
26.0	1597.526
26.5	1564.323

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CANDELA TABULATION - (Cont.)

27.0	1530.365
27.5	1495.653
28.0	1458.676
28.5	1421.700
29.0	1383.215
29.5	1345.484
30.0	1305.489
30.5	1266.249
31.0	1226.254
31.5	1187.014
32.0	1147.019
32.5	1107.025
33.0	1067.784
33.5	1029.299
34.0	990.059
34.5	952.328
35.0	918.370
35.5	882.148
36.0	845.927
36.5	810.460
37.0	774.993
37.5	740.054
38.0	705.945
38.5	672.440
39.0	639.690
39.5	607.694
40.0	576.453
40.5	546.343
41.0	516.913
41.5	488.691
42.0	461.449
42.5	435.415
43.0	410.512
43.5	386.893
44.0	364.254
44.5	342.974
45.0	322.750
45.5	303.507
46.0	285.246
46.5	267.814
47.0	251.137
47.5	235.139
48.0	219.745
48.5	204.803
49.0	190.088
49.5	175.675
50.0	161.413
50.5	147.226
51.0	133.115
51.5	118.852
52.0	104.666
52.5	90.252
53.0	75.990
53.5	62.256
54.0	49.503
54.5	38.259

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CANDELA TABULATION - (Cont.)

55.0	28.675
55.5	21.280
56.0	16.073
56.5	12.602
57.0	10.414
57.5	8.904
58.0	7.773
58.5	6.942
59.0	6.263
59.5	5.660
60.0	5.131
60.5	4.754
61.0	4.301
61.5	3.999
62.0	3.698
62.5	3.396
63.0	3.094
63.5	2.868
64.0	2.717
64.5	2.490
65.0	2.339
65.5	2.113
66.0	2.037
66.5	1.887
67.0	1.736
67.5	1.585
68.0	1.509
68.5	1.358
69.0	1.283
69.5	1.207
70.0	1.132
70.5	1.056
71.0	0.981
71.5	0.906
72.0	0.830
72.5	0.755
73.0	0.679
73.5	0.679
74.0	0.604
74.5	0.604
75.0	0.528
75.5	0.528
76.0	0.453
76.5	0.453
77.0	0.377
77.5	0.377
78.0	0.377
78.5	0.302
79.0	0.302
79.5	0.302
80.0	0.226
80.5	0.226
81.0	0.226
81.5	0.226
82.0	0.226
82.5	0.151

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CANDELA TABULATION - (Cont.)

83.0	0.151
83.5	0.151
84.0	0.151
84.5	0.151
85.0	0.151
85.5	0.151
86.0	0.075
86.5	0.075
87.0	0.075
87.5	0.075
88.0	0.075
88.5	0.075
89.0	0.075
89.5	0.075
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
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125.5	0.000
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126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
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130.0	0.000
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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	870.12	N.A.	34.80
0-30	1620.55	N.A.	64.90
0-40	2192.46	N.A.	87.80
0-60	2494.98	N.A.	99.90
0-80	2498.13	N.A.	100.00
0-90	2498.28	N.A.	100.00
10-90	2241.87	N.A.	89.70
20-40	1322.34	N.A.	52.90
20-50	1580.21	N.A.	63.30
40-70	305.05	N.A.	12.20
60-80	3.15	N.A.	0.10
70-80	0.62	N.A.	0.00
80-90	0.15	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	2498.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	256.41
10-20	613.72
20-30	750.43
30-40	571.91
40-50	257.88
50-60	44.64
60-70	2.53
70-80	0.62
80-90	0.15
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	111	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

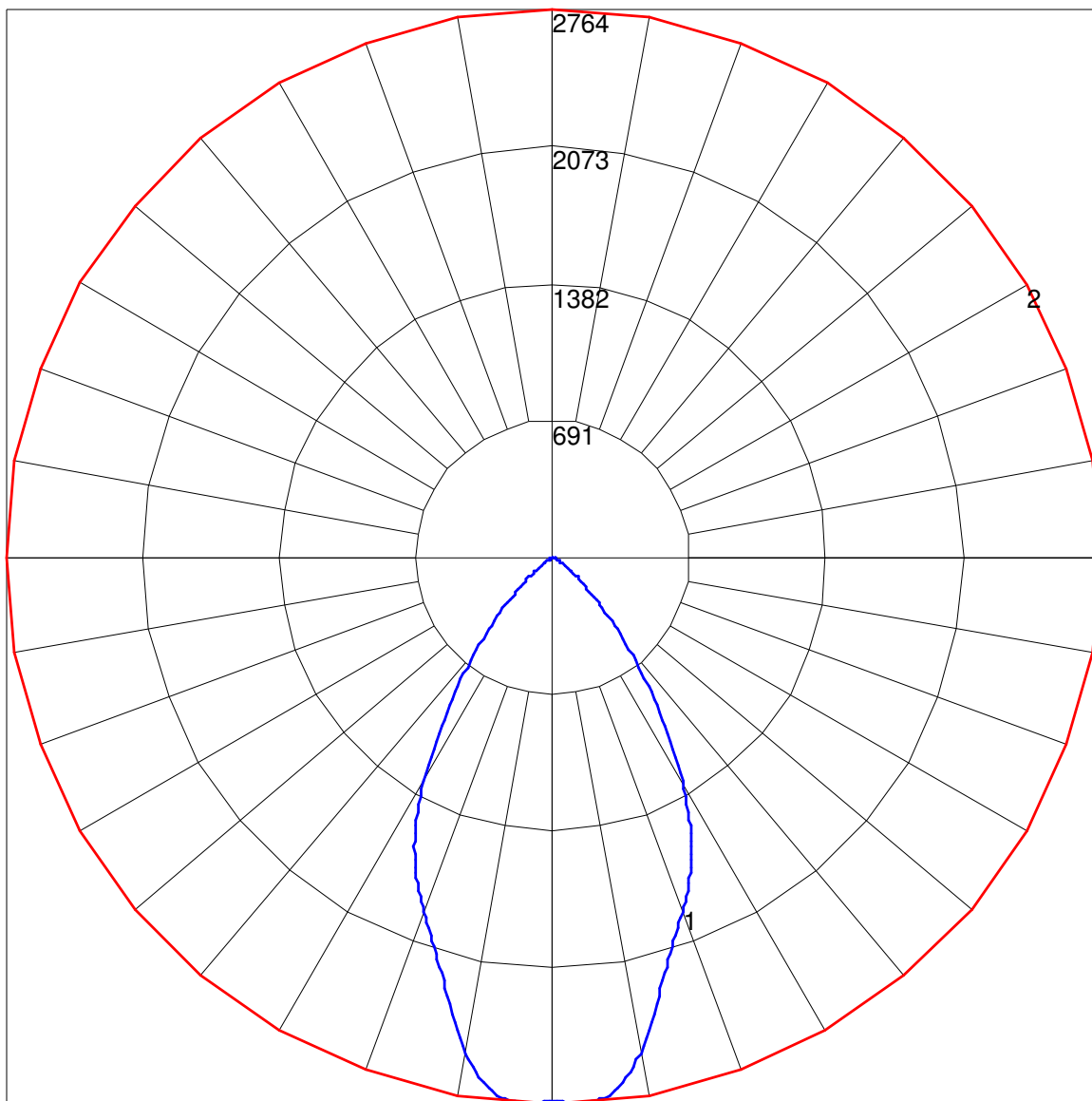
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UGR TABLE - CORRECTED

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	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	3H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
4H	2H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	3H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
8H	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
12H	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

Maximum UGR = 3.2

POLAR GRAPH



Maximum Candela = 2764.165 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.)