

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L10-830-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-L10-830-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	1015
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	10153	10153	10153
55	1112	1112	1112
65	123	123	123
75	45	45	45
85	38	38	38

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6LDR-L10-830-CS-DIM-UNV\_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1119.872
0.5	1119.872
1.0	1119.872
1.5	1120.485
2.0	1121.098
2.5	1121.711
3.0	1122.324
3.5	1122.630
4.0	1122.017
4.5	1120.792
5.0	1118.340
5.5	1114.968
6.0	1110.065
6.5	1104.548
7.0	1097.806
7.5	1090.450
8.0	1080.643
8.5	1071.142
9.0	1060.109
9.5	1047.543
10.0	1034.978
10.5	1021.186
11.0	1006.475
11.5	990.538
12.0	975.827
12.5	959.890
13.0	943.034
13.5	929.549
14.0	913.919
14.5	898.901
15.0	885.416
15.5	872.851
16.0	858.753
16.5	848.332
17.0	836.993
17.5	825.653
18.0	815.539
18.5	804.506
19.0	794.699
19.5	785.198
20.0	775.697
20.5	766.196
21.0	756.695
21.5	747.194
22.0	737.694
22.5	727.273
23.0	717.466
23.5	707.046
24.0	696.319
24.5	685.286
25.0	673.640
25.5	661.380
26.0	648.815
26.5	635.330

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L10-830-CS-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	621.538
27.5	607.440
28.0	592.423
28.5	577.405
29.0	561.775
29.5	546.451
30.0	530.208
30.5	514.271
31.0	498.027
31.5	482.091
32.0	465.847
32.5	449.604
33.0	433.667
33.5	418.037
34.0	402.100
34.5	386.776
35.0	372.984
35.5	358.273
36.0	343.562
36.5	329.158
37.0	314.753
37.5	300.563
38.0	286.711
38.5	273.103
39.0	259.802
39.5	246.807
40.0	234.119
40.5	221.890
41.0	209.938
41.5	198.475
42.0	187.412
42.5	176.838
43.0	166.724
43.5	157.131
44.0	147.937
44.5	139.294
45.0	131.081
45.5	123.266
46.0	115.849
46.5	108.769
47.0	101.996
47.5	95.499
48.0	89.247
48.5	83.178
49.0	77.202
49.5	71.348
50.0	65.556
50.5	59.794
51.0	54.063
51.5	48.270
52.0	42.509
52.5	36.655
53.0	30.862
53.5	25.284
54.0	20.105
54.5	15.538

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6LDR-L10-830-CS-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

55.0	11.646
55.5	8.643
56.0	6.528
56.5	5.118
57.0	4.229
57.5	3.616
58.0	3.157
58.5	2.820
59.0	2.544
59.5	2.299
60.0	2.084
60.5	1.931
61.0	1.747
61.5	1.624
62.0	1.502
62.5	1.379
63.0	1.257
63.5	1.165
64.0	1.103
64.5	1.011
65.0	0.950
65.5	0.858
66.0	0.827
66.5	0.766
67.0	0.705
67.5	0.644
68.0	0.613
68.5	0.552
69.0	0.521
69.5	0.490
70.0	0.460
70.5	0.429
71.0	0.398
71.5	0.368
72.0	0.337
72.5	0.306
73.0	0.276
73.5	0.276
74.0	0.245
74.5	0.245
75.0	0.215
75.5	0.215
76.0	0.184
76.5	0.184
77.0	0.153
77.5	0.153
78.0	0.153
78.5	0.123
79.0	0.123
79.5	0.123
80.0	0.092
80.5	0.092
81.0	0.092
81.5	0.092
82.0	0.092
82.5	0.061

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6LDR-L10-830-CS-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

83.0	0.061
83.5	0.061
84.0	0.061
84.5	0.061
85.0	0.061
85.5	0.061
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6LDR-L10-830-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
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
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6LDR-L10-830-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
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L10-830-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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L10-830-CS-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	353.39	N.A.	34.80
0-30	658.17	N.A.	64.90
0-40	890.44	N.A.	87.80
0-60	1013.3	N.A.	99.90
0-80	1014.58	N.A.	100.00
0-90	1014.64	N.A.	100.00
10-90	910.51	N.A.	89.70
20-40	537.05	N.A.	52.90
20-50	641.78	N.A.	63.30
40-70	123.89	N.A.	12.20
60-80	1.28	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	1014.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.14
10-20	249.25
20-30	304.78
30-40	232.27
40-50	104.73
50-60	18.13
60-70	1.03
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L10-830-CS-DIM-UNV\_.IES**

**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	61	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

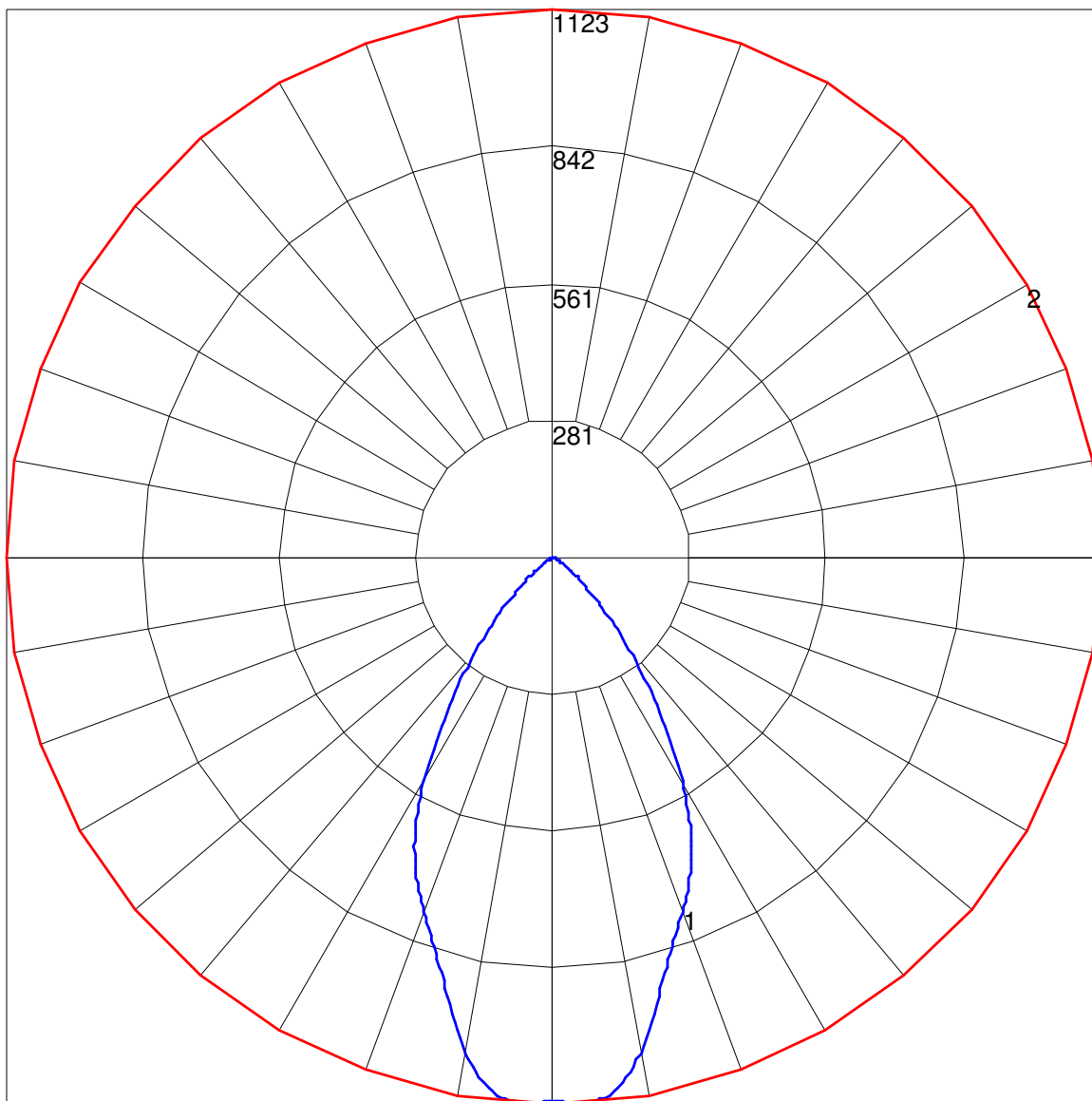
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L10-830-CS-DIM-UNV\_.IES**

**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 = 1122.63 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.)