

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-840-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-L10-840-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	1056
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	10563	10563	10563
55	1157	1157	1157
65	128	128	128
75	47	47	47
85	40	40	40

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CANDELA TABULATION

	<u>0</u>
0.0	1165.120
0.5	1165.120
1.0	1165.120
1.5	1165.757
2.0	1166.395
2.5	1167.033
3.0	1167.670
3.5	1167.989
4.0	1167.352
4.5	1166.076
5.0	1163.525
5.5	1160.018
6.0	1154.916
6.5	1149.176
7.0	1142.162
7.5	1134.509
8.0	1124.305
8.5	1114.421
9.0	1102.942
9.5	1089.868
10.0	1076.795
10.5	1062.446
11.0	1047.141
11.5	1030.560
12.0	1015.255
12.5	998.674
13.0	981.137
13.5	967.107
14.0	950.845
14.5	935.220
15.0	921.191
15.5	908.117
16.0	893.450
16.5	882.608
17.0	870.810
17.5	859.013
18.0	848.490
18.5	837.011
19.0	826.808
19.5	816.923
20.0	807.038
20.5	797.153
21.0	787.269
21.5	777.384
22.0	767.499
22.5	756.658
23.0	746.455
23.5	735.613
24.0	724.453
24.5	712.974
25.0	700.857
25.5	688.103
26.0	675.030
26.5	661.000

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CANDELA TABULATION - (Cont.)

27.0	646.651
27.5	631.983
28.0	616.359
28.5	600.735
29.0	584.473
29.5	568.530
30.0	551.630
30.5	535.049
31.0	518.150
31.5	501.569
32.0	484.669
32.5	467.770
33.0	451.189
33.5	434.927
34.0	418.346
34.5	402.403
35.0	388.054
35.5	372.749
36.0	357.444
36.5	342.457
37.0	327.471
37.5	312.707
38.0	298.295
38.5	284.137
39.0	270.299
39.5	256.779
40.0	243.578
40.5	230.856
41.0	218.420
41.5	206.495
42.0	194.984
42.5	183.983
43.0	173.461
43.5	163.480
44.0	153.914
44.5	144.923
45.0	136.377
45.5	128.246
46.0	120.530
46.5	113.164
47.0	106.117
47.5	99.357
48.0	92.852
48.5	86.539
49.0	80.321
49.5	74.231
50.0	68.204
50.5	62.210
51.0	56.247
51.5	50.221
52.0	44.226
52.5	38.136
53.0	32.109
53.5	26.306
54.0	20.917
54.5	16.166

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CANDELA TABULATION - (Cont.)

55.0	12.117
55.5	8.992
56.0	6.792
56.5	5.325
57.0	4.400
57.5	3.763
58.0	3.284
58.5	2.934
59.0	2.647
59.5	2.391
60.0	2.168
60.5	2.009
61.0	1.818
61.5	1.690
62.0	1.562
62.5	1.435
63.0	1.307
63.5	1.212
64.0	1.148
64.5	1.052
65.0	0.988
65.5	0.893
66.0	0.861
66.5	0.797
67.0	0.733
67.5	0.670
68.0	0.638
68.5	0.574
69.0	0.542
69.5	0.510
70.0	0.478
70.5	0.446
71.0	0.415
71.5	0.383
72.0	0.351
72.5	0.319
73.0	0.287
73.5	0.287
74.0	0.255
74.5	0.255
75.0	0.223
75.5	0.223
76.0	0.191
76.5	0.191
77.0	0.159
77.5	0.159
78.0	0.159
78.5	0.128
79.0	0.128
79.5	0.128
80.0	0.096
80.5	0.096
81.0	0.096
81.5	0.096
82.0	0.096
82.5	0.064

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CANDELA TABULATION - (Cont.)

83.0	0.064
83.5	0.064
84.0	0.064
84.5	0.064
85.0	0.064
85.5	0.064
86.0	0.032
86.5	0.032
87.0	0.032
87.5	0.032
88.0	0.032
88.5	0.032
89.0	0.032
89.5	0.032
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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129.0	0.000
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130.0	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
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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	367.67	N.A.	34.80
0-30	684.76	N.A.	64.90
0-40	926.42	N.A.	87.80
0-60	1054.25	N.A.	99.90
0-80	1055.58	N.A.	100.00
0-90	1055.64	N.A.	100.00
10-90	947.30	N.A.	89.70
20-40	558.75	N.A.	52.90
20-50	667.71	N.A.	63.30
40-70	128.90	N.A.	12.20
60-80	1.33	N.A.	0.10
70-80	0.26	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	1055.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.34
10-20	259.32
20-30	317.09
30-40	241.66
40-50	108.96
50-60	18.86
60-70	1.07
70-80	0.26
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	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

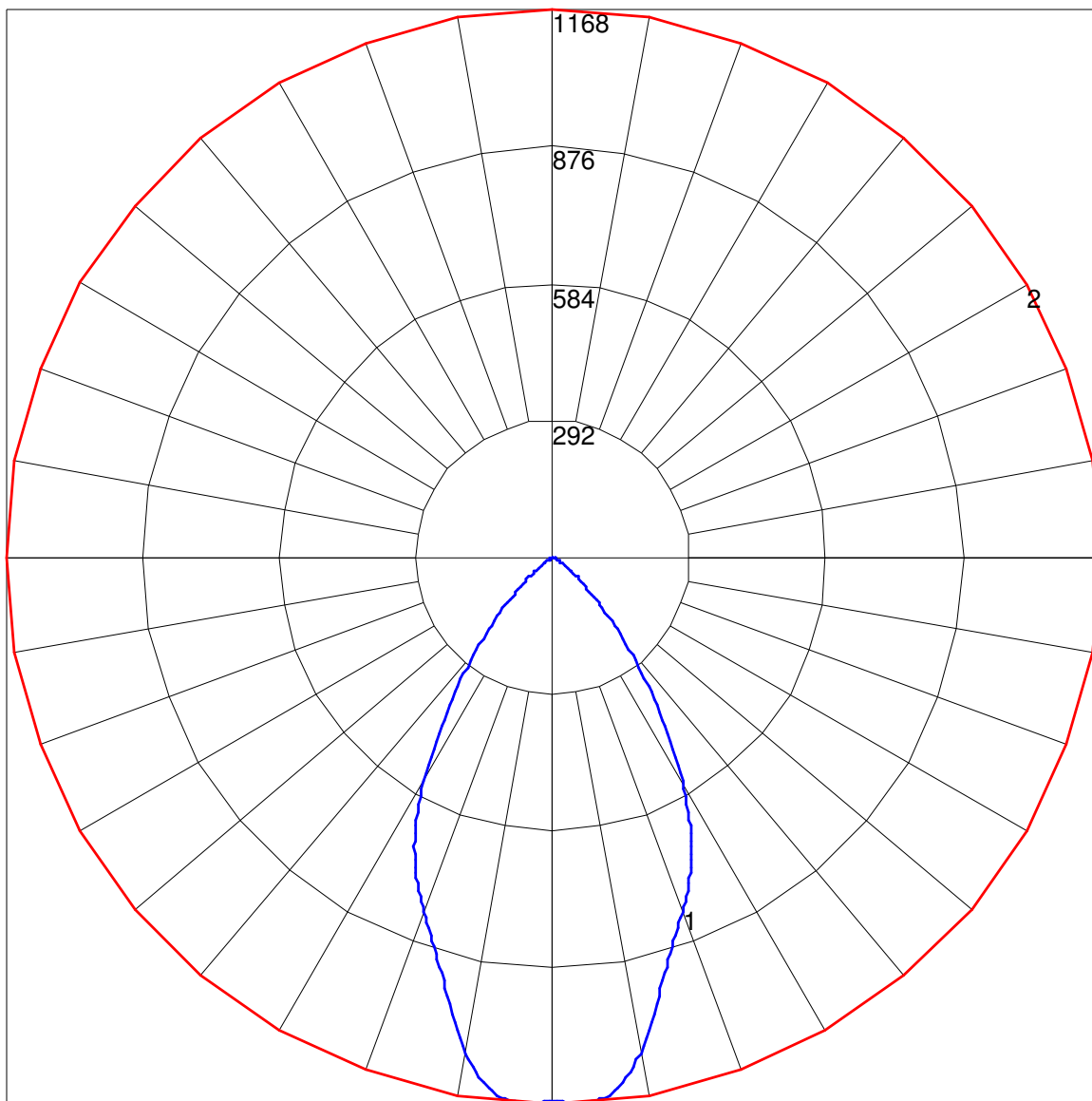
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UGR TABLE - CORRECTED

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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	3H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	8H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
4H	2H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	3H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	8H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8H	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	8H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	12H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12H	4H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	6H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	8H	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Maximum UGR = 0.2

POLAR GRAPH



Maximum Candela = 1167.989 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.)