

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-840-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-L15-840-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	1598
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	13.7
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	15994	15994	15994
55	1752	1752	1752
65	194	194	194
75	72	72	72
85	61	61	61

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CANDELA TABULATION

	<u>0</u>
0.0	1764.161
0.5	1764.161
1.0	1764.161
1.5	1765.127
2.0	1766.093
2.5	1767.058
3.0	1768.024
3.5	1768.507
4.0	1767.541
4.5	1765.610
5.0	1761.747
5.5	1756.437
6.0	1748.712
6.5	1740.021
7.0	1729.400
7.5	1717.812
8.0	1702.363
8.5	1687.396
9.0	1670.015
9.5	1650.220
10.0	1630.425
10.5	1608.699
11.0	1585.524
11.5	1560.419
12.0	1537.244
12.5	1512.138
13.0	1485.584
13.5	1464.341
14.0	1439.718
14.5	1416.061
15.0	1394.817
15.5	1375.022
16.0	1352.813
16.5	1336.398
17.0	1318.534
17.5	1300.671
18.0	1284.738
18.5	1267.357
19.0	1251.908
19.5	1236.941
20.0	1221.974
20.5	1207.007
21.0	1192.040
21.5	1177.073
22.0	1162.106
22.5	1145.691
23.0	1130.241
23.5	1113.826
24.0	1096.928
24.5	1079.547
25.0	1061.201
25.5	1041.888
26.0	1022.094
26.5	1000.850

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-840-CS-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	979.124
27.5	956.915
28.0	933.258
28.5	909.600
29.0	884.978
29.5	860.837
30.0	835.249
30.5	810.143
31.0	784.555
31.5	759.449
32.0	733.860
32.5	708.272
33.0	683.166
33.5	658.543
34.0	633.437
34.5	609.297
35.0	587.571
35.5	564.396
36.0	541.222
36.5	518.530
37.0	495.838
37.5	473.485
38.0	451.662
38.5	430.226
39.0	409.272
39.5	388.801
40.0	368.813
40.5	349.549
41.0	330.720
41.5	312.663
42.0	295.234
42.5	278.577
43.0	262.645
43.5	247.533
44.0	233.049
44.5	219.434
45.0	206.495
45.5	194.183
46.0	182.499
46.5	171.347
47.0	160.677
47.5	150.441
48.0	140.592
48.5	131.033
49.0	121.618
49.5	112.396
50.0	103.272
50.5	94.195
51.0	85.166
51.5	76.041
52.0	66.965
52.5	57.743
53.0	48.618
53.5	39.831
54.0	31.672
54.5	24.478

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-840-CS-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	18.347
55.5	13.615
56.0	10.284
56.5	8.063
57.0	6.663
57.5	5.697
58.0	4.973
58.5	4.442
59.0	4.007
59.5	3.621
60.0	3.283
60.5	3.042
61.0	2.752
61.5	2.559
62.0	2.366
62.5	2.173
63.0	1.979
63.5	1.835
64.0	1.738
64.5	1.593
65.0	1.497
65.5	1.352
66.0	1.304
66.5	1.207
67.0	1.110
67.5	1.014
68.0	0.966
68.5	0.869
69.0	0.821
69.5	0.772
70.0	0.724
70.5	0.676
71.0	0.628
71.5	0.579
72.0	0.531
72.5	0.483
73.0	0.435
73.5	0.435
74.0	0.386
74.5	0.386
75.0	0.338
75.5	0.338
76.0	0.290
76.5	0.290
77.0	0.241
77.5	0.241
78.0	0.241
78.5	0.193
79.0	0.193
79.5	0.193
80.0	0.145
80.5	0.145
81.0	0.145
81.5	0.145
82.0	0.145
82.5	0.097

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-840-CS-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	0.097
83.5	0.097
84.0	0.097
84.5	0.097
85.0	0.097
85.5	0.097
86.0	0.048
86.5	0.048
87.0	0.048
87.5	0.048
88.0	0.048
88.5	0.048
89.0	0.048
89.5	0.048
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-L15-840-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-L15-840-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
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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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-840-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	556.70	N.A.	34.80
0-30	1036.83	N.A.	64.90
0-40	1402.73	N.A.	87.80
0-60	1596.28	N.A.	99.90
0-80	1598.3	N.A.	100.00
0-90	1598.39	N.A.	100.00
10-90	1434.34	N.A.	89.70
20-40	846.03	N.A.	52.90
20-50	1011.02	N.A.	63.30
40-70	195.17	N.A.	12.20
60-80	2.02	N.A.	0.10
70-80	0.40	N.A.	0.00
80-90	0.09	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	1598.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.05
10-20	392.65
20-30	480.12
30-40	365.91
40-50	164.99
50-60	28.56
60-70	1.62
70-80	0.40
80-90	0.09
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

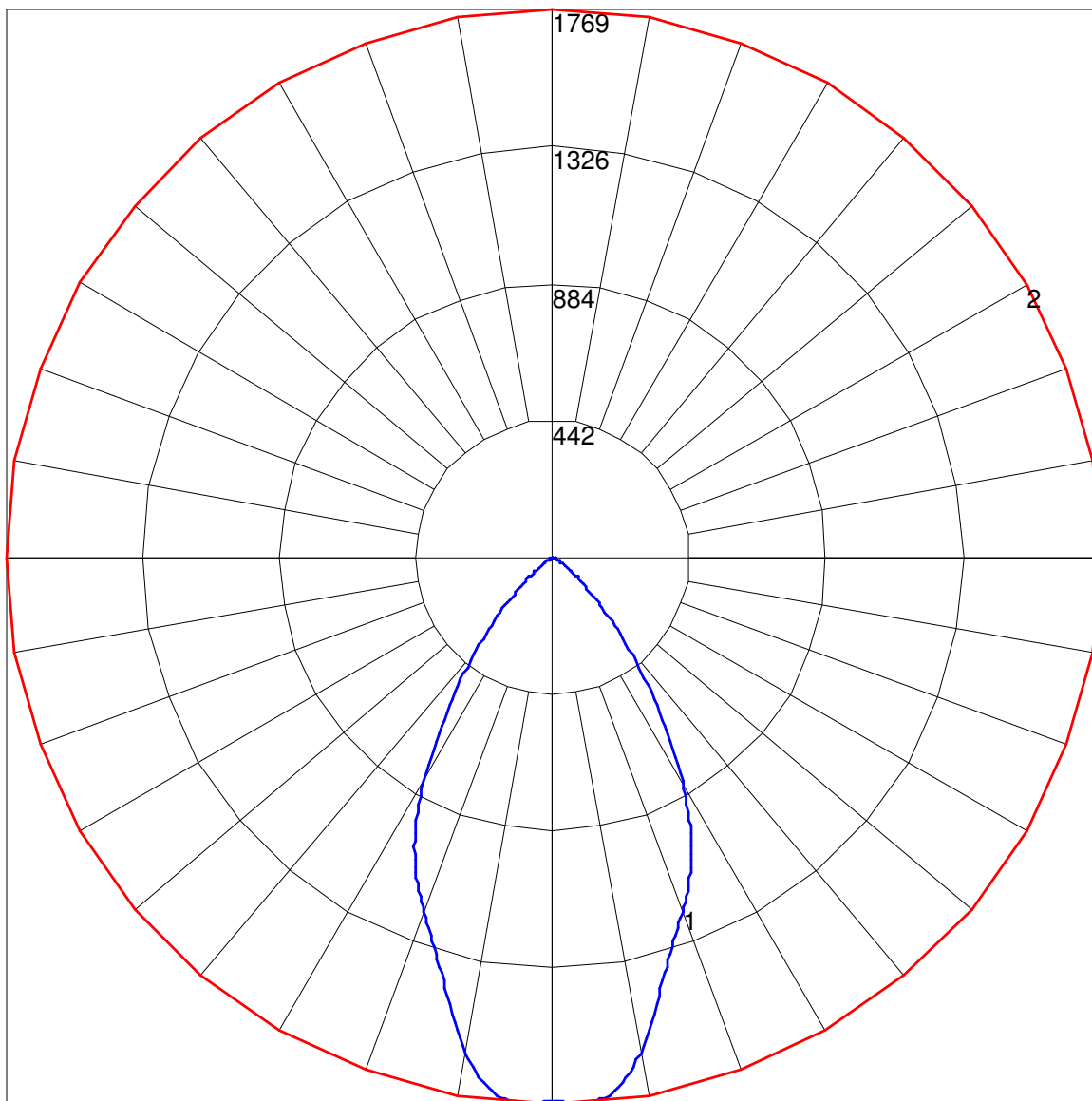
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UGR TABLE - CORRECTED

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	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	3H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	4H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	6H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	8H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	12H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
4H	2H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	3H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	4H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	6H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	8H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	12H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
8H	4H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	6H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	8H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	12H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
12H	4H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	6H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	8H	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

Maximum UGR = 1.7

POLAR GRAPH



Maximum Candela = 1768.507 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.)