

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.04
[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-WH-DIM-UNV
[LUMINAIRE] 6" recessed downlight with textured white finish reflector
[MORE] 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	1370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	13.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.02
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	16518	16518	16518
55	12166	12166	12166
65	9142	9142	9142
75	6929	6929	6929
85	5053	5053	5053

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CANDELA TABULATION

	<u>0</u>
0.0	965.430
0.5	965.430
1.0	964.949
1.5	964.467
2.0	963.504
2.5	963.504
3.0	962.060
3.5	961.097
4.0	959.171
4.5	957.726
5.0	956.282
5.5	954.356
6.0	951.948
6.5	950.022
7.0	947.614
7.5	944.725
8.0	941.836
8.5	938.947
9.0	936.058
9.5	932.688
10.0	929.317
10.5	925.465
11.0	921.613
11.5	917.761
12.0	913.909
12.5	909.575
13.0	905.241
13.5	900.426
14.0	896.093
14.5	890.796
15.0	886.463
15.5	881.166
16.0	875.869
16.5	871.054
17.0	865.276
17.5	859.979
18.0	854.201
18.5	848.423
19.0	842.645
19.5	836.867
20.0	830.126
20.5	824.348
21.0	818.088
21.5	811.828
22.0	805.087
22.5	798.346
23.0	791.123
23.5	783.419
24.0	775.233
24.5	766.566
25.0	757.417
25.5	747.787
26.0	736.712
26.5	725.156

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CANDELA TABULATION - (Cont.)

27.0	712.637
27.5	699.636
28.0	685.672
28.5	671.227
29.0	656.300
29.5	640.410
30.0	624.520
30.5	609.593
31.0	593.222
31.5	577.332
32.0	560.961
32.5	544.108
33.0	527.255
33.5	510.884
34.0	494.512
34.5	478.141
35.0	462.058
35.5	446.265
36.0	430.808
36.5	415.448
37.0	400.473
37.5	385.642
38.0	371.149
38.5	356.896
39.0	342.884
39.5	329.306
40.0	316.064
40.5	303.208
41.0	290.881
41.5	279.084
42.0	267.817
42.5	257.175
43.0	247.112
43.5	237.674
44.0	228.911
44.5	220.773
45.0	213.261
45.5	206.279
46.0	199.924
46.5	193.953
47.0	188.512
47.5	183.504
48.0	178.737
48.5	174.355
49.0	170.118
49.5	166.073
50.0	162.221
50.5	158.417
51.0	154.710
51.5	151.050
52.0	147.487
52.5	144.068
53.0	140.649
53.5	137.327
54.0	134.005
54.5	130.682

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CANDELA TABULATION - (Cont.)

55.0	127.408
55.5	124.134
56.0	120.811
56.5	117.633
57.0	114.455
57.5	111.325
58.0	108.244
58.5	105.210
59.0	102.225
59.5	99.336
60.0	96.447
60.5	93.654
61.0	90.861
61.5	88.165
62.0	85.516
62.5	82.868
63.0	80.316
63.5	77.812
64.0	75.308
64.5	72.901
65.0	70.541
65.5	68.278
66.0	66.015
66.5	63.800
67.0	61.633
67.5	59.515
68.0	57.444
68.5	55.470
69.0	53.448
69.5	51.522
70.0	49.644
70.5	47.766
71.0	45.984
71.5	44.155
72.0	42.421
72.5	40.736
73.0	39.051
73.5	37.462
74.0	35.873
74.5	34.284
75.0	32.743
75.5	31.250
76.0	29.806
76.5	28.361
77.0	26.965
77.5	25.568
78.0	24.220
78.5	22.872
79.0	21.572
79.5	20.320
80.0	19.068
80.5	17.864
81.0	16.660
81.5	15.505
82.0	14.349
82.5	13.242

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CANDELA TABULATION - (Cont.)

83.0	12.134
83.5	11.075
84.0	10.015
84.5	9.004
85.0	8.041
85.5	7.078
86.0	6.115
86.5	5.200
87.0	4.285
87.5	3.419
88.0	2.552
88.5	1.733
89.0	1.011
89.5	0.530
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
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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
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145.0	0.000
145.5	0.000
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149.0	0.000
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152.0	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	339.51	N.A.	24.80
0-30	682.24	N.A.	49.80
0-40	970.50	N.A.	70.80
0-60	1255.15	N.A.	91.60
0-80	1360.8	N.A.	99.30
0-90	1370.01	N.A.	100.00
10-90	1279.6	N.A.	93.40
20-40	630.99	N.A.	46.10
20-50	801.46	N.A.	58.50
40-70	355.21	N.A.	25.90
60-80	105.65	N.A.	7.70
70-80	35.09	N.A.	2.60
80-90	9.21	N.A.	0.70
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	1370.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.41
10-20	249.10
20-30	342.73
30-40	288.26
40-50	170.48
50-60	114.17
60-70	70.56
70-80	35.09
80-90	9.21
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	39	38

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UGR TABLE - CORRECTED

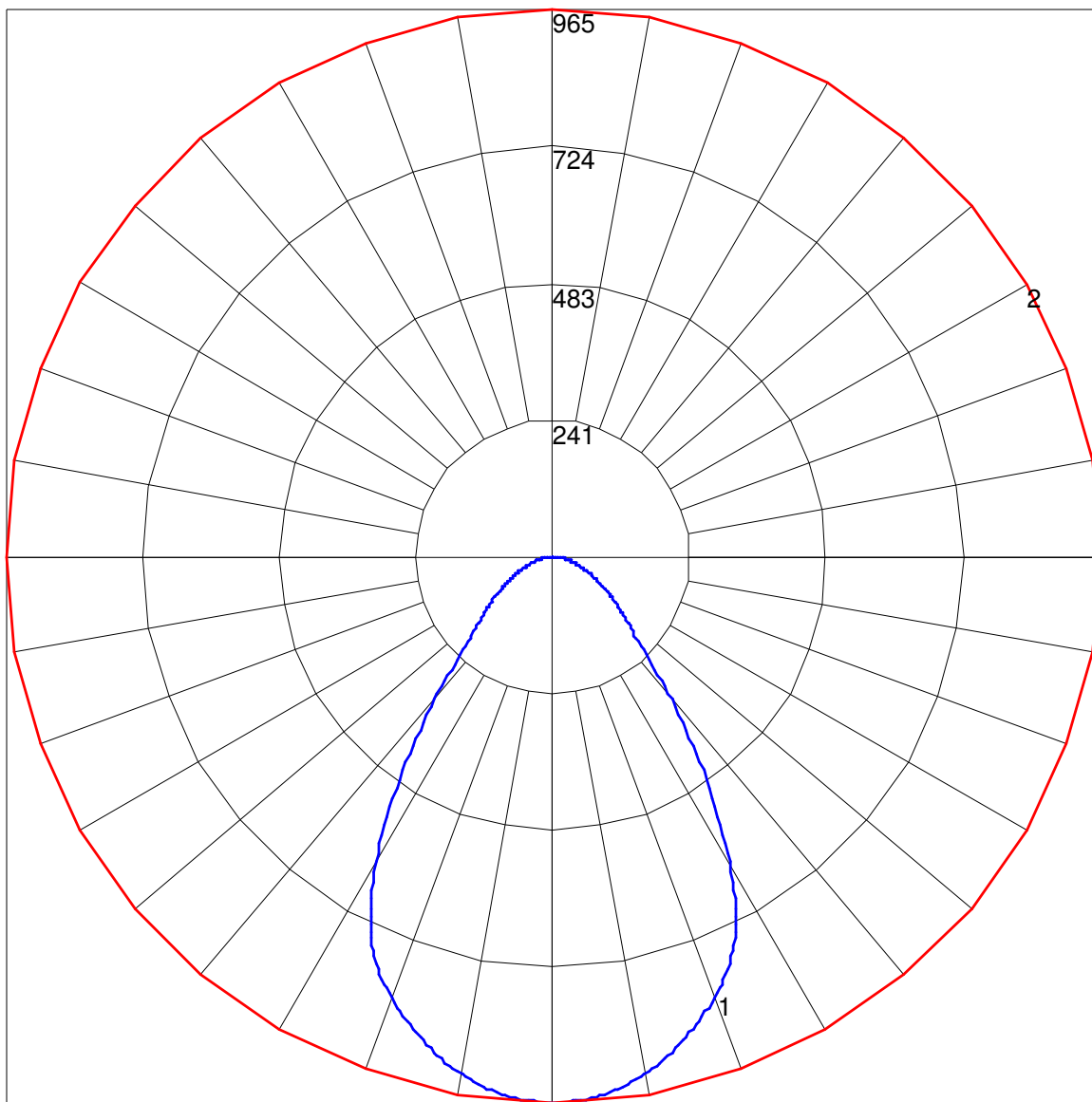
Reflectances

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	17.7	19.0	18.0	19.3	19.6	17.7	19.0	18.0	19.3	19.6
	3H	18.9	20.1	19.3	20.4	20.8	18.9	20.1	19.3	20.4	20.8
	4H	19.3	20.4	19.7	20.8	21.1	19.3	20.4	19.7	20.8	21.1
	6H	19.6	20.6	20.0	21.0	21.4	19.6	20.6	20.0	21.0	21.4
	8H	19.7	20.6	20.1	21.0	21.4	19.7	20.6	20.1	21.0	21.4
	12H	19.8	20.7	20.2	21.0	21.5	19.8	20.7	20.2	21.0	21.5
4H	2H	18.1	19.2	18.5	19.5	19.9	18.1	19.2	18.5	19.5	19.9
	3H	19.5	20.4	19.9	20.8	21.2	19.5	20.4	19.9	20.8	21.2
	4H	20.0	20.8	20.5	21.2	21.7	20.0	20.8	20.5	21.2	21.7
	6H	20.4	21.1	20.9	21.6	22.0	20.4	21.1	20.9	21.6	22.0
	8H	20.6	21.2	21.0	21.6	22.1	20.6	21.2	21.0	21.6	22.1
	12H	20.6	21.2	21.1	21.7	22.2	20.6	21.2	21.1	21.7	22.2
8H	4H	20.2	20.8	20.7	21.3	21.8	20.2	20.8	20.7	21.3	21.8
	6H	20.7	21.2	21.2	21.7	22.2	20.7	21.2	21.2	21.7	22.2
	8H	20.9	21.3	21.4	21.9	22.3	20.9	21.3	21.4	21.9	22.3
	12H	21.0	21.4	21.5	21.9	22.5	21.0	21.4	21.5	21.9	22.5
12H	4H	20.2	20.8	20.7	21.2	21.7	20.2	20.8	20.7	21.2	21.7
	6H	20.7	21.2	21.2	21.7	22.2	20.7	21.2	21.2	21.7	22.2
	8H	20.9	21.3	21.4	21.8	22.4	20.9	21.3	21.4	21.8	22.4

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 965.43 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)