

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-840-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-L30-840-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	2690
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	26
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	32428	32428	32428
55	23883	23883	23883
65	17947	17947	17947
75	13602	13602	13602
85	9920	9920	9920

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CANDELA TABULATION

	<u>0</u>
0.0	1895.292
0.5	1895.292
1.0	1894.347
1.5	1893.402
2.0	1891.511
2.5	1891.511
3.0	1888.675
3.5	1886.785
4.0	1883.003
4.5	1880.168
5.0	1877.332
5.5	1873.551
6.0	1868.824
6.5	1865.043
7.0	1860.317
7.5	1854.645
8.0	1848.973
8.5	1843.302
9.0	1837.630
9.5	1831.013
10.0	1824.396
10.5	1816.834
11.0	1809.271
11.5	1801.709
12.0	1794.147
12.5	1785.639
13.0	1777.132
13.5	1767.679
14.0	1759.171
14.5	1748.773
15.0	1740.266
15.5	1729.868
16.0	1719.470
16.5	1710.017
17.0	1698.673
17.5	1688.275
18.0	1676.932
18.5	1665.588
19.0	1654.245
19.5	1642.902
20.0	1629.668
20.5	1618.324
21.0	1606.036
21.5	1593.747
22.0	1580.513
22.5	1567.279
23.0	1553.100
23.5	1537.975
24.0	1521.905
24.5	1504.890
25.0	1486.930
25.5	1468.024
26.0	1446.283
26.5	1423.596

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CANDELA TABULATION - (Cont.)

27.0	1399.019
27.5	1373.496
28.0	1346.083
28.5	1317.724
29.0	1288.421
29.5	1257.226
30.0	1226.032
30.5	1196.728
31.0	1164.589
31.5	1133.394
32.0	1101.255
32.5	1068.170
33.0	1035.085
33.5	1002.945
34.0	970.806
34.5	938.666
35.0	907.093
35.5	876.088
36.0	845.745
36.5	815.590
37.0	786.192
37.5	757.077
38.0	728.624
38.5	700.644
39.0	673.136
39.5	646.479
40.0	620.484
40.5	595.245
41.0	571.045
41.5	547.886
42.0	525.766
42.5	504.876
43.0	485.119
43.5	466.592
44.0	449.387
44.5	433.412
45.0	418.666
45.5	404.959
46.0	392.481
46.5	380.760
47.0	370.078
47.5	360.247
48.0	350.889
48.5	342.287
49.0	333.968
49.5	326.028
50.0	318.466
50.5	310.998
51.0	303.719
51.5	296.535
52.0	289.540
52.5	282.829
53.0	276.117
53.5	269.595
54.0	263.072
54.5	256.550

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CANDELA TABULATION - (Cont.)

55.0	250.122
55.5	243.694
56.0	237.171
56.5	230.933
57.0	224.694
57.5	218.549
58.0	212.500
58.5	206.544
59.0	200.684
59.5	195.012
60.0	189.340
60.5	183.858
61.0	178.375
61.5	173.081
62.0	167.882
62.5	162.683
63.0	157.673
63.5	152.758
64.0	147.842
64.5	143.116
65.0	138.484
65.5	134.041
66.0	129.598
66.5	125.250
67.0	120.996
67.5	116.837
68.0	112.772
68.5	108.897
69.0	104.926
69.5	101.145
70.0	97.459
70.5	93.772
71.0	90.275
71.5	86.682
72.0	83.279
72.5	79.971
73.0	76.662
73.5	73.543
74.0	70.424
74.5	67.304
75.0	64.279
75.5	61.349
76.0	58.513
76.5	55.677
77.0	52.936
77.5	50.195
78.0	47.548
78.5	44.901
79.0	42.349
79.5	39.891
80.0	37.433
80.5	35.070
81.0	32.707
81.5	30.438
82.0	28.169
82.5	25.995

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CANDELA TABULATION - (Cont.)

83.0	23.821
83.5	21.742
84.0	19.662
84.5	17.677
85.0	15.786
85.5	13.896
86.0	12.005
86.5	10.209
87.0	8.413
87.5	6.712
88.0	5.010
88.5	3.403
89.0	1.985
89.5	1.040
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
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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
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145.5	0.000
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159.5	0.000
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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	666.52	N.A.	24.80
0-30	1339.35	N.A.	49.80
0-40	1905.24	N.A.	70.80
0-60	2464.06	N.A.	91.60
0-80	2671.47	N.A.	99.30
0-90	2689.55	N.A.	100.00
10-90	2512.06	N.A.	93.40
20-40	1238.72	N.A.	46.10
20-50	1573.4	N.A.	58.50
40-70	697.34	N.A.	25.90
60-80	207.41	N.A.	7.70
70-80	68.89	N.A.	2.60
80-90	18.08	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	2689.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	177.49
10-20	489.03
20-30	672.83
30-40	565.90
40-50	334.68
50-60	224.14
60-70	138.53
70-80	68.89
80-90	18.08
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	42	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

X=2H	Y=2H	20.1	21.4	20.4	21.7	22.0	20.1	21.4	20.4	21.7	22.0
	3H	21.3	22.5	21.7	22.8	23.2	21.3	22.5	21.7	22.8	23.2
	4H	21.7	22.8	22.1	23.2	23.5	21.7	22.8	22.1	23.2	23.5
	6H	22.0	23.0	22.4	23.4	23.8	22.0	23.0	22.4	23.4	23.8
	8H	22.1	23.0	22.5	23.4	23.8	22.1	23.0	22.5	23.4	23.8
	12H	22.2	23.1	22.6	23.4	23.9	22.2	23.1	22.6	23.4	23.9

UGR Viewed Endwise

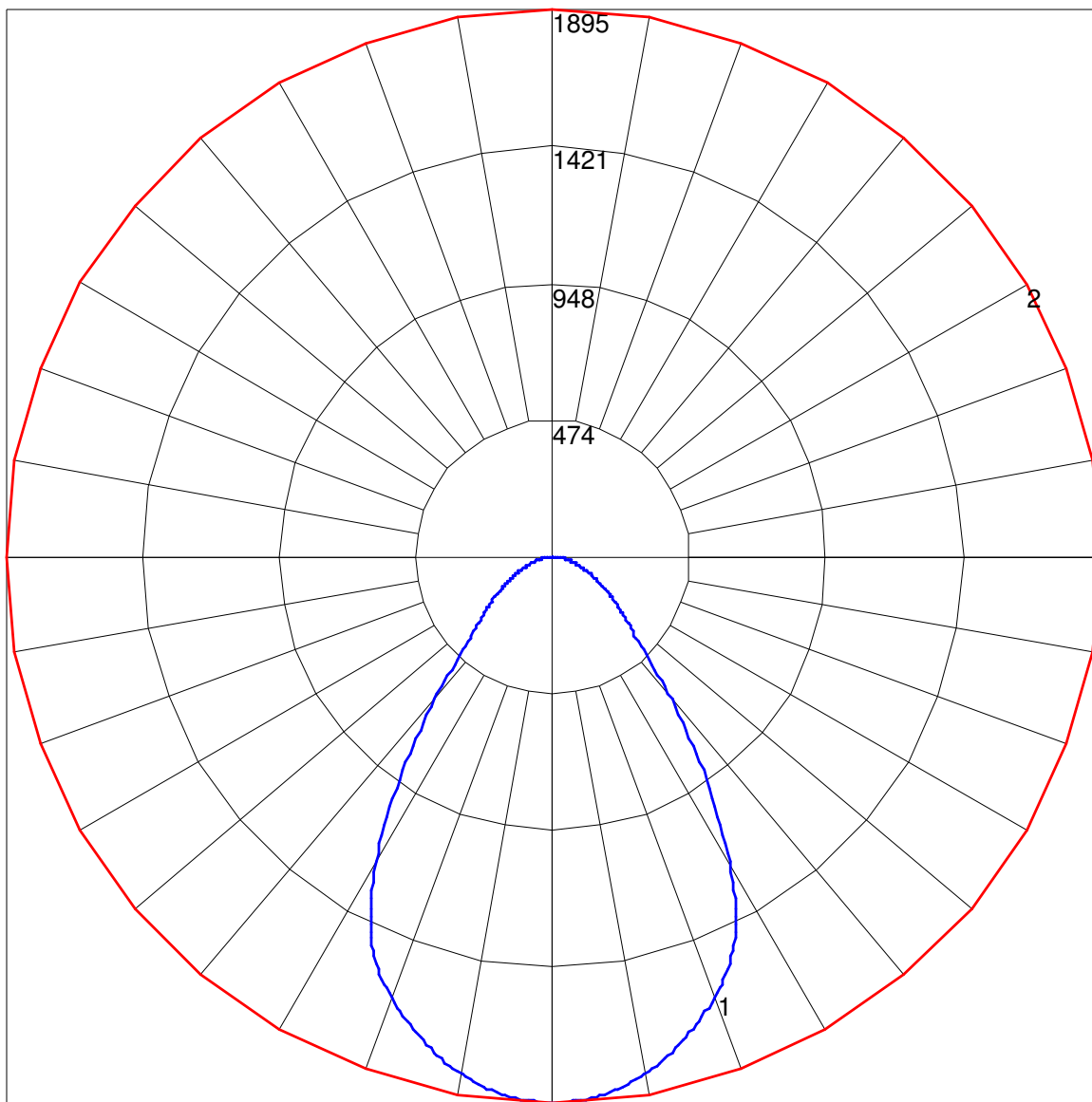
4H	2H	20.5	21.6	20.9	21.9	22.3	20.5	21.6	20.9	21.9	22.3
	3H	21.9	22.8	22.3	23.2	23.6	21.9	22.8	22.3	23.2	23.6
	4H	22.4	23.2	22.8	23.6	24.1	22.4	23.2	22.8	23.6	24.1
	6H	22.8	23.5	23.3	24.0	24.4	22.8	23.5	23.3	24.0	24.4
	8H	23.0	23.6	23.4	24.0	24.5	23.0	23.6	23.4	24.0	24.5
	12H	23.0	23.6	23.5	24.1	24.6	23.0	23.6	23.5	24.1	24.6

8H	4H	22.6	23.2	23.1	23.7	24.2	22.6	23.2	23.1	23.7	24.2
	6H	23.1	23.6	23.6	24.1	24.6	23.1	23.6	23.6	24.1	24.6
	8H	23.3	23.7	23.8	24.3	24.7	23.3	23.7	23.8	24.3	24.7
	12H	23.4	23.8	23.9	24.3	24.9	23.4	23.8	23.9	24.3	24.9

12H	4H	22.6	23.2	23.1	23.6	24.1	22.6	23.2	23.1	23.6	24.1
	6H	23.1	23.6	23.6	24.1	24.6	23.1	23.6	23.6	24.1	24.6
	8H	23.3	23.7	23.8	24.2	24.8	23.3	23.7	23.8	24.2	24.8

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 1895.292 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.)