

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-835-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-L30-835-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	2611
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	31483	31483	31483
55	23188	23188	23188
65	17424	17424	17424
75	13206	13206	13206
85	9631	9631	9631

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CANDELA TABULATION

	<u>0</u>
0.0	1840.090
0.5	1840.090
1.0	1839.172
1.5	1838.254
2.0	1836.419
2.5	1836.419
3.0	1833.665
3.5	1831.830
4.0	1828.159
4.5	1825.406
5.0	1822.652
5.5	1818.981
6.0	1814.393
6.5	1810.722
7.0	1806.133
7.5	1800.626
8.0	1795.120
8.5	1789.613
9.0	1784.107
9.5	1777.683
10.0	1771.258
10.5	1763.916
11.0	1756.574
11.5	1749.232
12.0	1741.890
12.5	1733.631
13.0	1725.371
13.5	1716.193
14.0	1707.934
14.5	1697.838
15.0	1689.579
15.5	1679.483
16.0	1669.388
16.5	1660.211
17.0	1649.198
17.5	1639.102
18.0	1628.089
18.5	1617.076
19.0	1606.063
19.5	1595.050
20.0	1582.202
20.5	1571.189
21.0	1559.258
21.5	1547.327
22.0	1534.479
22.5	1521.630
23.0	1507.864
23.5	1493.180
24.0	1477.578
24.5	1461.059
25.0	1443.621
25.5	1425.266
26.0	1404.158
26.5	1382.132

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CANDELA TABULATION - (Cont.)

27.0	1358.271
27.5	1333.491
28.0	1306.877
28.5	1279.344
29.0	1250.894
29.5	1220.608
30.0	1190.322
30.5	1161.872
31.0	1130.669
31.5	1100.383
32.0	1069.179
32.5	1037.058
33.0	1004.937
33.5	973.733
34.0	942.530
34.5	911.326
35.0	880.673
35.5	850.571
36.0	821.111
36.5	791.835
37.0	763.293
37.5	735.026
38.0	707.402
38.5	680.237
39.0	653.530
39.5	627.650
40.0	602.411
40.5	577.907
41.0	554.413
41.5	531.928
42.0	510.453
42.5	490.170
43.0	470.990
43.5	453.002
44.0	436.299
44.5	420.789
45.0	406.472
45.5	393.164
46.0	381.050
46.5	369.670
47.0	359.299
47.5	349.755
48.0	340.669
48.5	332.317
49.0	324.241
49.5	316.532
50.0	309.190
50.5	301.940
51.0	294.873
51.5	287.898
52.0	281.107
52.5	274.591
53.0	268.075
53.5	261.742
54.0	255.410
54.5	249.077

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CANDELA TABULATION - (Cont.)

55.0	242.837
55.5	236.596
56.0	230.264
56.5	224.206
57.0	218.149
57.5	212.184
58.0	206.310
58.5	200.528
59.0	194.838
59.5	189.332
60.0	183.825
60.5	178.502
61.0	173.180
61.5	168.040
62.0	162.992
62.5	157.945
63.0	153.081
63.5	148.308
64.0	143.536
64.5	138.947
65.0	134.450
65.5	130.137
66.0	125.824
66.5	121.602
67.0	117.472
67.5	113.434
68.0	109.488
68.5	105.725
69.0	101.870
69.5	98.199
70.0	94.620
70.5	91.041
71.0	87.645
71.5	84.158
72.0	80.854
72.5	77.642
73.0	74.430
73.5	71.401
74.0	68.372
74.5	65.344
75.0	62.407
75.5	59.562
76.0	56.809
76.5	54.055
77.0	51.394
77.5	48.733
78.0	46.163
78.5	43.593
79.0	41.115
79.5	38.729
80.0	36.343
80.5	34.049
81.0	31.754
81.5	29.552
82.0	27.349
82.5	25.238

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CANDELA TABULATION - (Cont.)

83.0	23.127
83.5	21.108
84.0	19.089
84.5	17.162
85.0	15.326
85.5	13.491
86.0	11.655
86.5	9.912
87.0	8.168
87.5	6.516
88.0	4.864
88.5	3.304
89.0	1.927
89.5	1.010
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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130.5	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
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
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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	647.11	N.A.	24.80
0-30	1300.34	N.A.	49.80
0-40	1849.75	N.A.	70.80
0-60	2392.29	N.A.	91.60
0-80	2593.66	N.A.	99.30
0-90	2611.22	N.A.	100.00
10-90	2438.89	N.A.	93.40
20-40	1202.64	N.A.	46.10
20-50	1527.57	N.A.	58.50
40-70	677.03	N.A.	25.90
60-80	201.37	N.A.	7.70
70-80	66.88	N.A.	2.60
80-90	17.56	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	2611.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.32
10-20	474.78
20-30	653.23
30-40	549.41
40-50	324.93
50-60	217.61
60-70	134.49
70-80	66.88
80-90	17.56
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

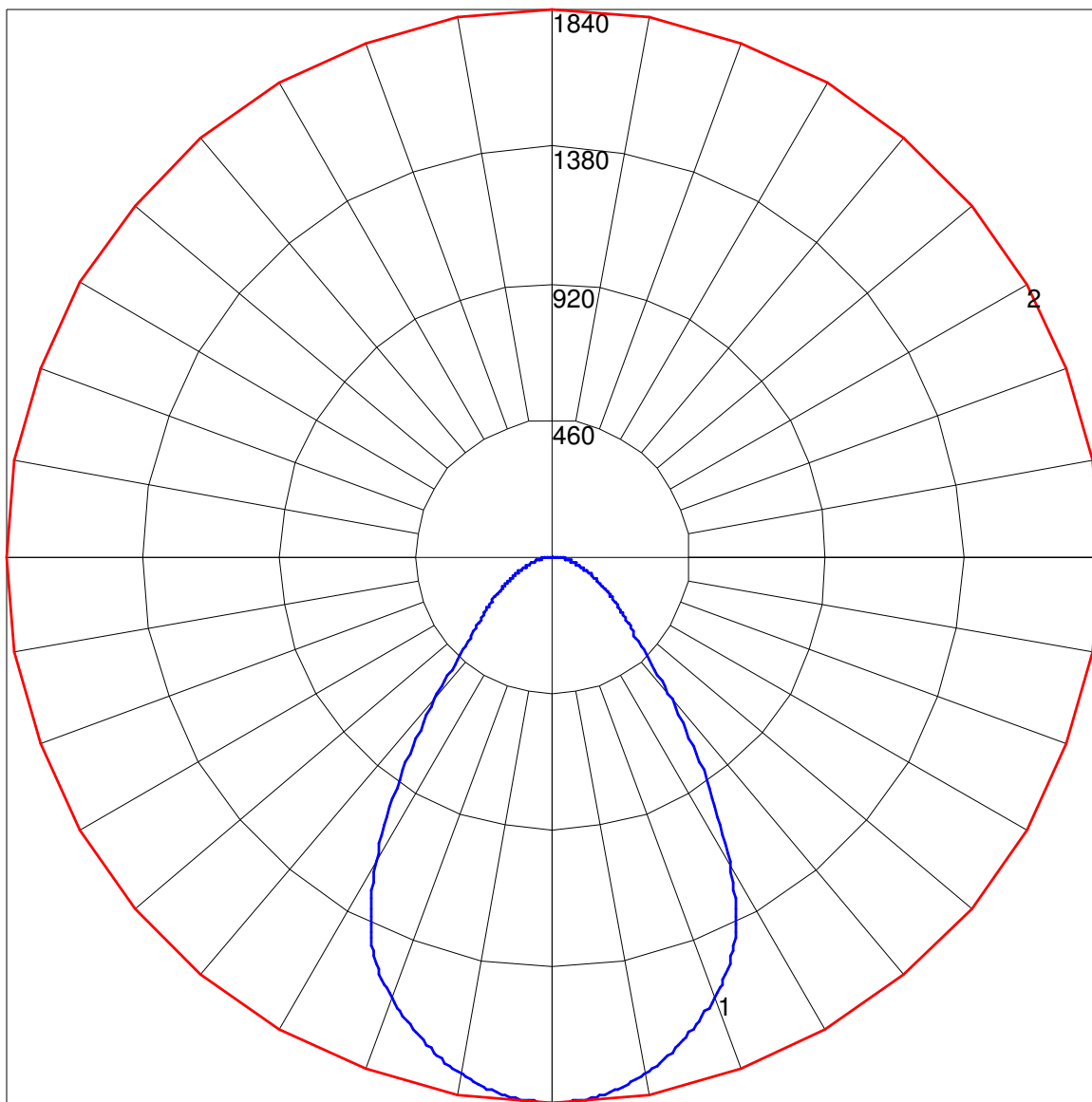
X=2H	Y=2H	19.9	21.2	20.2	21.5	21.8	19.9	21.2	20.2	21.5	21.8
	3H	21.1	22.3	21.5	22.6	23.0	21.1	22.3	21.5	22.6	23.0
	4H	21.5	22.6	21.9	23.0	23.3	21.5	22.6	21.9	23.0	23.3
	6H	21.8	22.8	22.2	23.2	23.6	21.8	22.8	22.2	23.2	23.6
	8H	21.9	22.8	22.3	23.2	23.6	21.9	22.8	22.3	23.2	23.6
	12H	21.9	22.8	22.4	23.2	23.7	21.9	22.8	22.4	23.2	23.7

UGR Viewed Endwise

4H	2H	20.3	21.4	20.7	21.7	22.1	20.3	21.4	20.7	21.7	22.1
	3H	21.7	22.6	22.1	23.0	23.4	21.7	22.6	22.1	23.0	23.4
	4H	22.2	23.0	22.6	23.4	23.9	22.2	23.0	22.6	23.4	23.9
	6H	22.6	23.3	23.1	23.8	24.2	22.6	23.3	23.1	23.8	24.2
	8H	22.8	23.4	23.2	23.8	24.3	22.8	23.4	23.2	23.8	24.3
	12H	22.8	23.4	23.3	23.9	24.4	22.8	23.4	23.3	23.9	24.4
8H	4H	22.4	23.0	22.9	23.5	23.9	22.4	23.0	22.9	23.5	23.9
	6H	22.9	23.4	23.4	23.9	24.4	22.9	23.4	23.4	23.9	24.4
	8H	23.1	23.5	23.6	24.1	24.5	23.1	23.5	23.6	24.1	24.5
	12H	23.2	23.6	23.7	24.1	24.7	23.2	23.6	23.7	24.1	24.7
12H	4H	22.4	23.0	22.9	23.4	23.9	22.4	23.0	22.9	23.4	23.9
	6H	22.9	23.4	23.4	23.9	24.4	22.9	23.4	23.4	23.9	24.4
	8H	23.1	23.5	23.6	24.0	24.6	23.1	23.5	23.6	24.0	24.6

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 1840.09 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.)