

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-940-BL-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.05
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-11
[TEST DATE] 11/11/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6LDR-L30-940-BL-DIM-UNV
[LUMINAIRE] 4" recessed downlight with textured black 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	962
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.94
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	6783	6783	6783
55	878	878	878
65	305	305	305
75	132	132	132
85	87	87	87

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CANDELA TABULATION

	<u>0</u>
0.0	961.480
0.5	961.480
1.0	961.480
1.5	960.788
2.0	960.097
2.5	959.405
3.0	958.713
3.5	956.638
4.0	955.255
4.5	953.871
5.0	951.796
5.5	950.413
6.0	947.646
6.5	945.571
7.0	942.804
7.5	940.037
8.0	937.270
8.5	933.811
9.0	930.353
9.5	926.894
10.0	923.436
10.5	919.286
11.0	915.135
11.5	910.985
12.0	906.143
12.5	901.993
13.0	896.459
13.5	892.309
14.0	886.775
14.5	881.933
15.0	876.399
15.5	870.866
16.0	866.024
16.5	860.490
17.0	856.340
17.5	850.806
18.0	845.272
18.5	839.739
19.0	832.821
19.5	825.213
20.0	817.604
20.5	809.995
21.0	801.003
21.5	792.010
22.0	781.635
22.5	771.259
23.0	759.500
23.5	747.049
24.0	733.215
24.5	718.689
25.0	704.163
25.5	688.945
26.0	673.036
26.5	656.642

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CANDELA TABULATION - (Cont.)

27.0	639.834
27.5	622.541
28.0	604.833
28.5	586.849
29.0	568.795
29.5	550.534
30.0	532.342
30.5	514.011
31.0	495.612
31.5	477.281
32.0	459.089
32.5	441.036
33.0	423.190
33.5	405.689
34.0	388.466
34.5	371.380
35.0	354.710
35.5	338.316
36.0	322.200
36.5	306.221
37.0	290.657
37.5	275.301
38.0	260.291
38.5	245.558
39.0	231.032
39.5	216.713
40.0	202.810
40.5	189.252
41.0	176.041
41.5	163.244
42.0	150.862
42.5	138.896
43.0	127.552
43.5	116.692
44.0	106.385
44.5	96.701
45.0	87.571
45.5	78.994
46.0	71.039
46.5	63.707
47.0	56.997
47.5	50.841
48.0	45.238
48.5	40.119
49.0	35.554
49.5	31.473
50.0	27.807
50.5	24.556
51.0	21.720
51.5	19.299
52.0	17.154
52.5	15.287
53.0	13.696
53.5	12.312
54.0	11.137
54.5	10.099

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CANDELA TABULATION - (Cont.)

55.0	9.200
55.5	8.508
56.0	7.886
56.5	7.401
57.0	6.986
57.5	6.571
58.0	6.156
58.5	5.741
59.0	5.395
59.5	4.980
60.0	4.704
60.5	4.358
61.0	4.081
61.5	3.804
62.0	3.528
62.5	3.320
63.0	3.113
63.5	2.905
64.0	2.698
64.5	2.559
65.0	2.352
65.5	2.213
66.0	2.075
66.5	1.937
67.0	1.798
67.5	1.729
68.0	1.591
68.5	1.522
69.0	1.383
69.5	1.314
70.0	1.245
70.5	1.176
71.0	1.107
71.5	1.038
72.0	0.968
72.5	0.899
73.0	0.830
73.5	0.830
74.0	0.761
74.5	0.692
75.0	0.623
75.5	0.623
76.0	0.553
76.5	0.553
77.0	0.484
77.5	0.484
78.0	0.415
78.5	0.415
79.0	0.415
79.5	0.346
80.0	0.346
80.5	0.277
81.0	0.277
81.5	0.277
82.0	0.277
82.5	0.208

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CANDELA TABULATION - (Cont.)

83.0	0.208
83.5	0.208
84.0	0.138
84.5	0.138
85.0	0.138
85.5	0.138
86.0	0.138
86.5	0.069
87.0	0.069
87.5	0.069
88.0	0.069
88.5	0.069
89.0	0.069
89.5	0.069
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
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
133.5	0.000
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
157.5	0.000
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	336.49	N.A.	35.00
0-30	653.65	N.A.	68.00
0-40	875.00	N.A.	91.00
0-60	958.38	N.A.	99.60
0-80	961.64	N.A.	100.00
0-90	961.81	N.A.	100.00
10-90	871.84	N.A.	90.60
20-40	538.51	N.A.	56.00
20-50	611.75	N.A.	63.60
40-70	85.90	N.A.	8.90
60-80	3.26	N.A.	0.30
70-80	0.74	N.A.	0.10
80-90	0.17	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	961.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.96
10-20	246.52
20-30	317.16
30-40	221.35
40-50	73.23
50-60	10.15
60-70	2.52
70-80	0.74
80-90	0.17
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	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	59	54	51	59	54	50	58	53	50	49

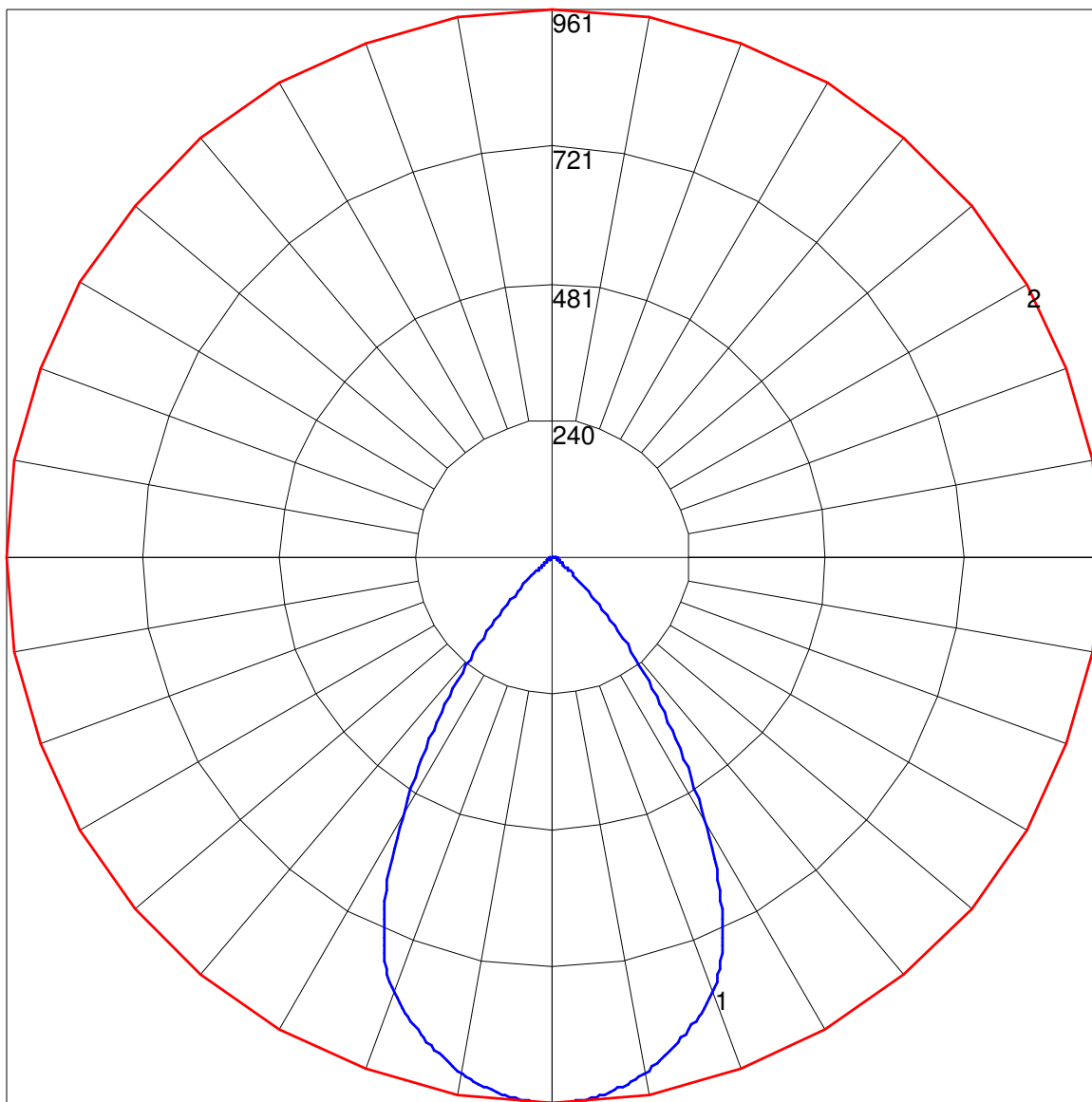
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UGR TABLE - CORRECTED

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	0.0	0.6	0.0	0.9	1.2	0.0	0.6	0.0	0.9	1.2
	3H	0.0	0.6	0.1	1.0	1.3	0.0	0.6	0.1	1.0	1.3
	4H	0.0	0.5	0.2	0.9	1.3	0.0	0.5	0.2	0.9	1.3
	6H	0.0	0.4	0.1	0.8	1.2	0.0	0.4	0.1	0.8	1.2
	8H	0.0	0.3	0.1	0.7	1.1	0.0	0.3	0.1	0.7	1.1
	12H	0.0	0.3	0.0	0.6	1.1	0.0	0.3	0.0	0.6	1.1
4H	2H	0.0	0.3	0.0	0.7	1.1	0.0	0.3	0.0	0.7	1.1
	3H	0.0	0.4	0.2	0.8	1.2	0.0	0.4	0.2	0.8	1.2
	4H	0.0	0.3	0.2	0.8	1.2	0.0	0.3	0.2	0.8	1.2
	6H	0.0	0.2	0.2	0.7	1.2	0.0	0.2	0.2	0.7	1.2
	8H	0.0	0.2	0.2	0.6	1.1	0.0	0.2	0.2	0.6	1.1
	12H	0.0	0.0	0.2	0.5	1.0	0.0	0.0	0.2	0.5	1.0
8H	4H	0.0	0.1	0.1	0.6	1.0	0.0	0.1	0.1	0.6	1.0
	6H	0.0	0.0	0.2	0.5	1.0	0.0	0.0	0.2	0.5	1.0
	8H	0.0	0.0	0.2	0.5	1.0	0.0	0.0	0.2	0.5	1.0
	12H	0.0	0.0	0.1	0.4	0.9	0.0	0.0	0.1	0.4	0.9
12H	4H	0.0	0.0	0.1	0.5	0.9	0.0	0.0	0.1	0.5	0.9
	6H	0.0	0.0	0.1	0.4	0.9	0.0	0.0	0.1	0.4	0.9
	8H	0.0	0.0	0.1	0.4	0.9	0.0	0.0	0.1	0.4	0.9

Maximum UGR = 1.3

POLAR GRAPH



Maximum Candela = 961.48 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.)