

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L10-930-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-L10-930-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	720
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	9.3
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	8681	8681	8681
55	6394	6394	6394
65	4805	4805	4805
75	3641	3641	3641
85	2656	2656	2656

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CANDELA TABULATION

	<u>0</u>
0.0	507.388
0.5	507.388
1.0	507.135
1.5	506.882
2.0	506.376
2.5	506.376
3.0	505.617
3.5	505.111
4.0	504.099
4.5	503.339
5.0	502.580
5.5	501.568
6.0	500.303
6.5	499.290
7.0	498.025
7.5	496.507
8.0	494.988
8.5	493.470
9.0	491.952
9.5	490.180
10.0	488.409
10.5	486.384
11.0	484.360
11.5	482.335
12.0	480.311
12.5	478.033
13.0	475.756
13.5	473.225
14.0	470.947
14.5	468.164
15.0	465.886
15.5	463.103
16.0	460.319
16.5	457.788
17.0	454.752
17.5	451.968
18.0	448.931
18.5	445.894
19.0	442.858
19.5	439.821
20.0	436.278
20.5	433.241
21.0	429.951
21.5	426.662
22.0	423.119
22.5	419.576
23.0	415.780
23.5	411.731
24.0	407.429
24.5	402.874
25.0	398.066
25.5	393.005
26.0	387.184
26.5	381.111

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CANDELA TABULATION - (Cont.)

27.0	374.531
27.5	367.698
28.0	360.360
28.5	352.768
29.0	344.923
29.5	336.572
30.0	328.221
30.5	320.376
31.0	311.772
31.5	303.421
32.0	294.817
32.5	285.959
33.0	277.102
33.5	268.498
34.0	259.894
34.5	251.290
35.0	242.838
35.5	234.537
36.0	226.414
36.5	218.341
37.0	210.471
37.5	202.677
38.0	195.060
38.5	187.569
39.0	180.205
39.5	173.069
40.0	166.110
40.5	159.353
41.0	152.874
41.5	146.674
42.0	140.753
42.5	135.160
43.0	129.871
43.5	124.911
44.0	120.305
44.5	116.029
45.0	112.081
45.5	108.412
46.0	105.071
46.5	101.933
47.0	99.074
47.5	96.442
48.0	93.936
48.5	91.634
49.0	89.407
49.5	87.281
50.0	85.256
50.5	83.257
51.0	81.309
51.5	79.385
52.0	77.513
52.5	75.716
53.0	73.919
53.5	72.173
54.0	70.427
54.5	68.681

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CANDELA TABULATION - (Cont.)

55.0	66.960
55.5	65.239
56.0	63.493
56.5	61.823
57.0	60.153
57.5	58.508
58.0	56.888
58.5	55.294
59.0	53.725
59.5	52.207
60.0	50.688
60.5	49.220
61.0	47.753
61.5	46.336
62.0	44.944
62.5	43.552
63.0	42.211
63.5	40.895
64.0	39.579
64.5	38.314
65.0	37.074
65.5	35.884
66.0	34.695
66.5	33.531
67.0	32.392
67.5	31.278
68.0	30.190
68.5	29.153
69.0	28.090
69.5	27.078
70.0	26.091
70.5	25.104
71.0	24.167
71.5	23.206
72.0	22.295
72.5	21.409
73.0	20.523
73.5	19.688
74.0	18.853
74.5	18.018
75.0	17.208
75.5	16.424
76.0	15.665
76.5	14.905
77.0	14.171
77.5	13.438
78.0	12.729
78.5	12.020
79.0	11.337
79.5	10.679
80.0	10.021
80.5	9.389
81.0	8.756
81.5	8.149
82.0	7.541
82.5	6.959

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CANDELA TABULATION - (Cont.)

83.0	6.377
83.5	5.820
84.0	5.264
84.5	4.732
85.0	4.226
85.5	3.720
86.0	3.214
86.5	2.733
87.0	2.252
87.5	1.797
88.0	1.341
88.5	0.911
89.0	0.531
89.5	0.278
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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118.5	0.000
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126.5	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
156.0	0.000
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157.0	0.000
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159.5	0.000
160.0	0.000
160.5	0.000
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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	178.43	N.A.	24.80
0-30	358.56	N.A.	49.80
0-40	510.05	N.A.	70.80
0-60	659.65	N.A.	91.60
0-80	715.18	N.A.	99.30
0-90	720.02	N.A.	100.00
10-90	672.50	N.A.	93.40
20-40	331.62	N.A.	46.10
20-50	421.22	N.A.	58.50
40-70	186.69	N.A.	25.90
60-80	55.53	N.A.	7.70
70-80	18.44	N.A.	2.60
80-90	4.84	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	720.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.52
10-20	130.92
20-30	180.12
30-40	151.50
40-50	89.60
50-60	60.00
60-70	37.09
70-80	18.44
80-90	4.84
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

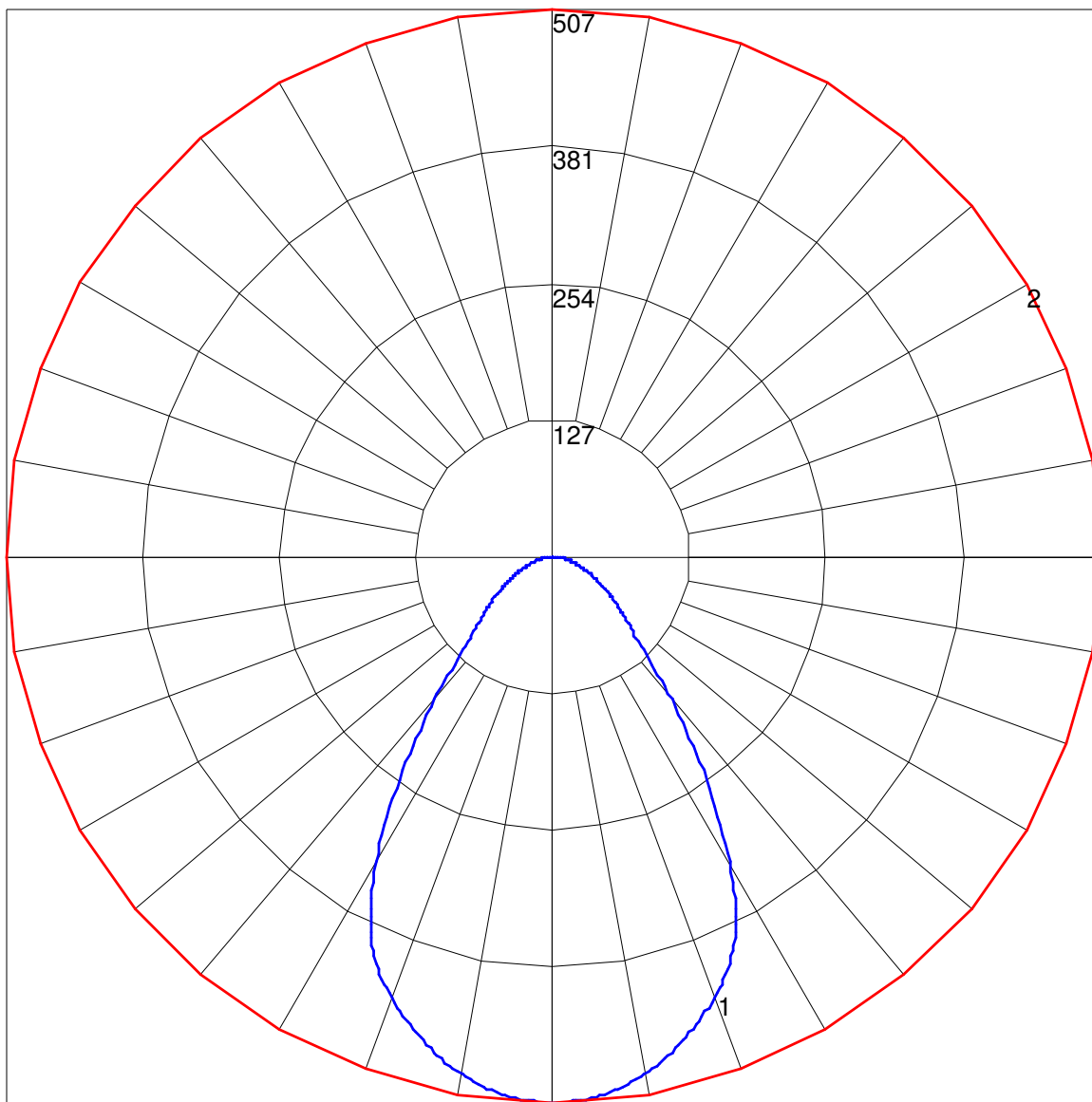
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UGR TABLE - CORRECTED

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	15.5	16.8	15.8	17.1	17.4	15.5	16.8	15.8	17.1	17.4
	3H	16.7	17.9	17.1	18.2	18.6	16.7	17.9	17.1	18.2	18.6
	4H	17.1	18.2	17.5	18.6	18.9	17.1	18.2	17.5	18.6	18.9
	6H	17.4	18.4	17.8	18.8	19.2	17.4	18.4	17.8	18.8	19.2
	8H	17.5	18.4	17.9	18.8	19.2	17.5	18.4	17.9	18.8	19.2
	12H	17.5	18.4	18.0	18.8	19.3	17.5	18.4	18.0	18.8	19.3
4H	2H	15.9	17.0	16.3	17.3	17.7	15.9	17.0	16.3	17.3	17.7
	3H	17.3	18.2	17.7	18.6	19.0	17.3	18.2	17.7	18.6	19.0
	4H	17.8	18.6	18.2	19.0	19.5	17.8	18.6	18.2	19.0	19.5
	6H	18.2	18.9	18.7	19.4	19.8	18.2	18.9	18.7	19.4	19.8
	8H	18.4	19.0	18.8	19.4	19.9	18.4	19.0	18.8	19.4	19.9
	12H	18.4	19.0	18.9	19.5	20.0	18.4	19.0	18.9	19.5	20.0
8H	4H	18.0	18.6	18.5	19.1	19.5	18.0	18.6	18.5	19.1	19.5
	6H	18.5	19.0	19.0	19.5	20.0	18.5	19.0	19.0	19.5	20.0
	8H	18.7	19.1	19.2	19.7	20.1	18.7	19.1	19.2	19.7	20.1
	12H	18.8	19.2	19.3	19.7	20.3	18.8	19.2	19.3	19.7	20.3
12H	4H	18.0	18.6	18.5	19.0	19.5	18.0	18.6	18.5	19.0	19.5
	6H	18.5	19.0	19.0	19.5	20.0	18.5	19.0	19.0	19.5	20.0
	8H	18.7	19.1	19.2	19.6	20.2	18.7	19.1	19.2	19.6	20.2

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 507.388 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.)