

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-930-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-L15-930-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	1091
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	13150	13150	13150
55	9685	9685	9685
65	7278	7278	7278
75	5516	5516	5516
85	4023	4023	4023

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CANDELA TABULATION

	<u>0</u>
0.0	768.595
0.5	768.595
1.0	768.212
1.5	767.828
2.0	767.062
2.5	767.062
3.0	765.912
3.5	765.145
4.0	763.612
4.5	762.462
5.0	761.312
5.5	759.778
6.0	757.862
6.5	756.328
7.0	754.412
7.5	752.112
8.0	749.811
8.5	747.511
9.0	745.211
9.5	742.528
10.0	739.845
10.5	736.778
11.0	733.711
11.5	730.645
12.0	727.578
12.5	724.128
13.0	720.678
13.5	716.844
14.0	713.394
14.5	709.178
15.0	705.727
15.5	701.511
16.0	697.294
16.5	693.461
17.0	688.861
17.5	684.644
18.0	680.044
18.5	675.444
19.0	670.844
19.5	666.244
20.0	660.877
20.5	656.277
21.0	651.293
21.5	646.310
22.0	640.943
22.5	635.576
23.0	629.826
23.5	623.693
24.0	617.176
24.5	610.276
25.0	602.993
25.5	595.326
26.0	586.509
26.5	577.309

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**CANDELA TABULATION - (Cont.)**

27.0	567.342
27.5	556.992
28.0	545.875
28.5	534.375
29.0	522.491
29.5	509.841
30.0	497.191
30.5	485.307
31.0	472.274
31.5	459.624
32.0	446.590
32.5	433.173
33.0	419.756
33.5	406.723
34.0	393.689
34.5	380.656
35.0	367.852
35.5	355.279
36.0	342.974
36.5	330.745
37.0	318.823
37.5	307.016
38.0	295.478
38.5	284.131
39.0	272.976
39.5	262.166
40.0	251.624
40.5	241.389
41.0	231.575
41.5	222.183
42.0	213.213
42.5	204.741
43.0	196.730
43.5	189.216
44.0	182.239
44.5	175.761
45.0	169.781
45.5	164.223
46.0	159.162
46.5	154.409
47.0	150.077
47.5	146.091
48.0	142.296
48.5	138.807
49.0	135.434
49.5	132.214
50.0	129.147
50.5	126.119
51.0	123.167
51.5	120.254
52.0	117.417
52.5	114.695
53.0	111.973
53.5	109.328
54.0	106.683
54.5	104.038

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**CANDELA TABULATION - (Cont.)**

55.0	101.432
55.5	98.825
56.0	96.180
56.5	93.650
57.0	91.120
57.5	88.628
58.0	86.175
58.5	83.760
59.0	81.383
59.5	79.083
60.0	76.783
60.5	74.559
61.0	72.336
61.5	70.189
62.0	68.081
62.5	65.973
63.0	63.941
63.5	61.948
64.0	59.954
64.5	58.038
65.0	56.159
65.5	54.357
66.0	52.556
66.5	50.792
67.0	49.067
67.5	47.381
68.0	45.732
68.5	44.161
69.0	42.551
69.5	41.017
70.0	39.522
70.5	38.027
71.0	36.609
71.5	35.152
72.0	33.772
72.5	32.430
73.0	31.089
73.5	29.824
74.0	28.559
74.5	27.294
75.0	26.067
75.5	24.879
76.0	23.729
76.5	22.579
77.0	21.467
77.5	20.355
78.0	19.282
78.5	18.209
79.0	17.174
79.5	16.177
80.0	15.180
80.5	14.222
81.0	13.264
81.5	12.344
82.0	11.424
82.5	10.542

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CANDELA TABULATION - (Cont.)

83.0	9.660
83.5	8.817
84.0	7.973
84.5	7.168
85.0	6.402
85.5	5.635
86.0	4.868
86.5	4.140
87.0	3.412
87.5	2.722
88.0	2.032
88.5	1.380
89.0	0.805
89.5	0.422
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
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120.5	0.000
121.0	0.000
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122.5	0.000
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123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
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126.5	0.000
127.0	0.000
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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
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147.0	0.000
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152.0	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	270.29	N.A.	24.80
0-30	543.14	N.A.	49.80
0-40	772.63	N.A.	70.80
0-60	999.25	N.A.	91.60
0-80	1083.36	N.A.	99.30
0-90	1090.69	N.A.	100.00
10-90	1018.71	N.A.	93.40
20-40	502.34	N.A.	46.10
20-50	638.06	N.A.	58.50
40-70	282.79	N.A.	25.90
60-80	84.11	N.A.	7.70
70-80	27.94	N.A.	2.60
80-90	7.33	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	1090.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	71.98
10-20	198.31
20-30	272.85
30-40	229.49
40-50	135.72
50-60	90.89
60-70	56.18
70-80	27.94
80-90	7.33
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	101	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	69	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	16.9	18.2	17.2	18.5	18.8	UGR Viewed Endwise			
	3H	18.1	19.3	18.5	19.6	20.0	16.9	18.2	17.2	18.5
	4H	18.5	19.6	18.9	20.0	20.3	18.1	19.3	18.5	19.6
	6H	18.8	19.8	19.2	20.2	20.6	18.5	19.6	18.9	20.0
	8H	18.9	19.8	19.3	20.2	20.6	18.8	19.8	19.2	20.2
	12H	18.9	19.8	19.4	20.2	20.7	18.9	19.8	19.3	20.2

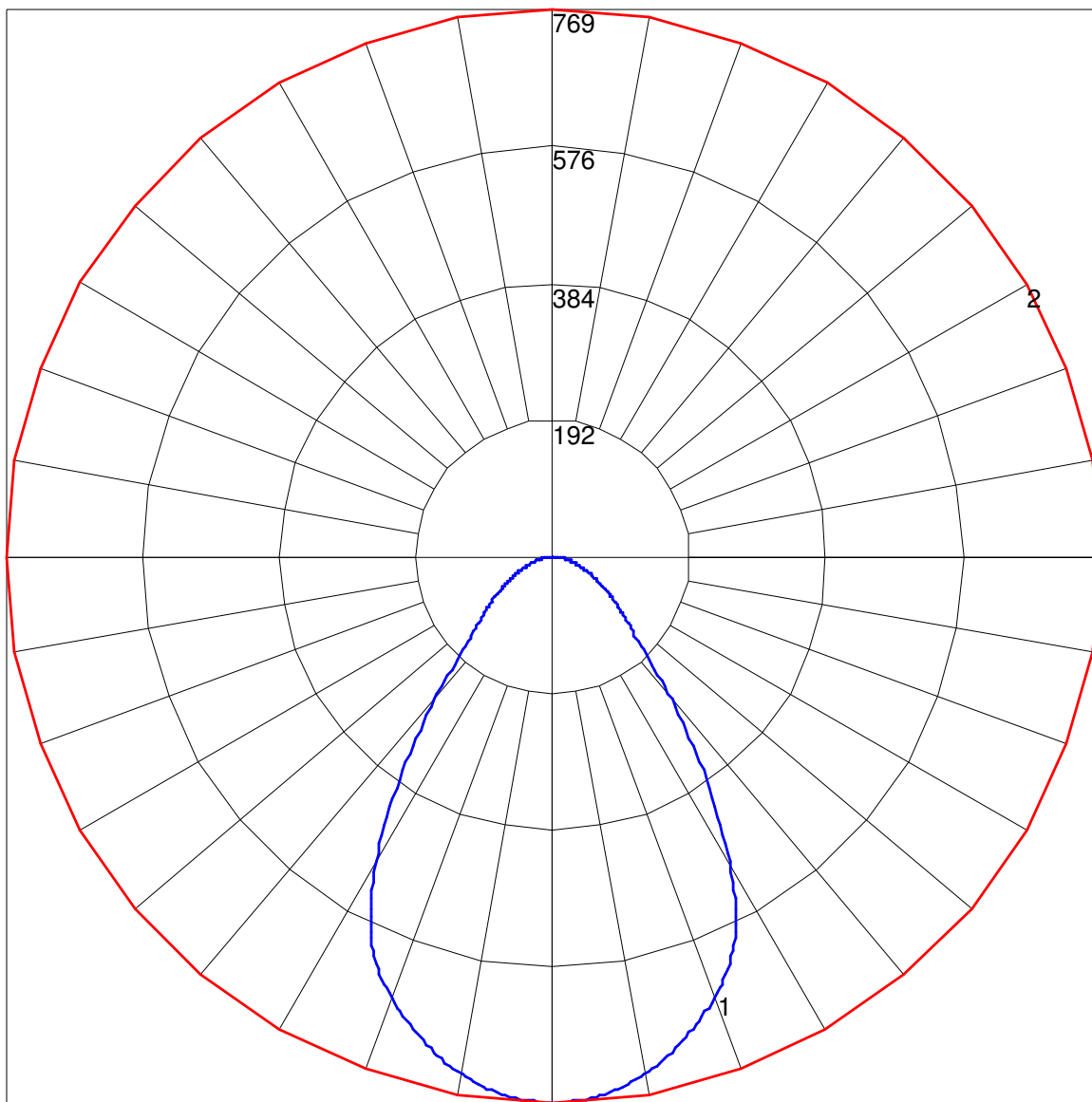
4H	2H	17.3	18.4	17.7	18.7	19.1	16.9	18.2	17.2	18.5
	3H	18.7	19.6	19.1	20.0	20.4	18.1	19.3	18.5	19.6
	4H	19.2	20.0	19.6	20.4	20.9	18.5	19.6	18.9	20.0
	6H	19.6	20.3	20.1	20.8	21.2	18.8	19.8	19.2	20.2
	8H	19.8	20.4	20.2	20.8	21.3	18.9	19.8	19.3	20.2
	12H	19.8	20.4	20.3	20.9	21.4	18.9	19.8	19.4	20.2

8H	4H	19.4	20.0	19.9	20.5	21.0	17.3	18.4	17.7	18.7
	6H	19.9	20.4	20.4	20.9	21.4	18.7	19.6	19.1	20.0
	8H	20.1	20.5	20.6	21.1	21.5	19.2	20.0	19.6	20.4
	12H	20.2	20.6	20.7	21.1	21.7	19.6	20.3	20.1	20.8

12H	4H	19.4	20.0	19.9	20.4	20.9	19.8	20.4	20.2	20.8
	6H	19.9	20.4	20.4	20.9	21.4	19.8	20.4	20.3	20.9
	8H	20.1	20.5	20.6	21.0	21.6	19.8	20.4	20.3	20.9

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 768.595 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.)