

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-935-CS-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.03  
[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-L30-935-CS-DIM-UNV  
[LUMINAIRE] 6" recessed downlight with clear semi-specular finish refl  
[MORE] ector 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	2529
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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	25303	25303	25303
55	2771	2771	2771
65	307	307	307
75	113	113	113
85	96	96	96

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CANDELA TABULATION

	<u>0</u>
0.0	2791.000
0.5	2791.000
1.0	2791.000
1.5	2792.528
2.0	2794.056
2.5	2795.583
3.0	2797.111
3.5	2797.875
4.0	2796.347
4.5	2793.292
5.0	2787.181
5.5	2778.779
6.0	2766.558
6.5	2752.809
7.0	2736.005
7.5	2717.674
8.0	2693.231
8.5	2669.553
9.0	2642.055
9.5	2610.739
10.0	2579.422
10.5	2545.050
11.0	2508.387
11.5	2468.668
12.0	2432.005
12.5	2392.286
13.0	2350.276
13.5	2316.668
14.0	2277.713
14.5	2240.286
15.0	2206.678
15.5	2175.361
16.0	2140.225
16.5	2114.255
17.0	2085.994
17.5	2057.733
18.0	2032.527
18.5	2005.029
19.0	1980.587
19.5	1956.908
20.0	1933.230
20.5	1909.551
21.0	1885.873
21.5	1862.195
22.0	1838.516
22.5	1812.546
23.0	1788.104
23.5	1762.134
24.0	1735.400
24.5	1707.903
25.0	1678.878
25.5	1648.325
26.0	1617.008
26.5	1583.400

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**CANDELA TABULATION - (Cont.)**

27.0	1549.028
27.5	1513.892
28.0	1476.465
28.5	1439.038
29.0	1400.083
29.5	1361.892
30.0	1321.410
30.5	1281.691
31.0	1241.208
31.5	1201.490
32.0	1161.007
32.5	1120.525
33.0	1080.806
33.5	1041.851
34.0	1002.133
34.5	963.942
35.0	929.570
35.5	892.906
36.0	856.243
36.5	820.343
37.0	784.444
37.5	749.079
38.0	714.554
38.5	680.641
39.0	647.491
39.5	615.105
40.0	583.483
40.5	553.006
41.0	523.217
41.5	494.650
42.0	467.076
42.5	440.724
43.0	415.518
43.5	391.611
44.0	368.696
44.5	347.156
45.0	326.686
45.5	307.209
46.0	288.724
46.5	271.080
47.0	254.199
47.5	238.006
48.0	222.425
48.5	207.301
49.0	192.406
49.5	177.817
50.0	163.381
50.5	149.021
51.0	134.738
51.5	120.302
52.0	105.942
52.5	91.353
53.0	76.917
53.5	63.015
54.0	50.107
54.5	38.726

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CANDELA TABULATION - (Cont.)

55.0	29.025
55.5	21.540
56.0	16.269
56.5	12.756
57.0	10.541
57.5	9.013
58.0	7.867
58.5	7.027
59.0	6.340
59.5	5.729
60.0	5.194
60.5	4.812
61.0	4.354
61.5	4.048
62.0	3.743
62.5	3.437
63.0	3.132
63.5	2.903
64.0	2.750
64.5	2.521
65.0	2.368
65.5	2.139
66.0	2.062
66.5	1.910
67.0	1.757
67.5	1.604
68.0	1.528
68.5	1.375
69.0	1.298
69.5	1.222
70.0	1.146
70.5	1.069
71.0	0.993
71.5	0.917
72.0	0.840
72.5	0.764
73.0	0.687
73.5	0.687
74.0	0.611
74.5	0.611
75.0	0.535
75.5	0.535
76.0	0.458
76.5	0.458
77.0	0.382
77.5	0.382
78.0	0.382
78.5	0.306
79.0	0.306
79.5	0.306
80.0	0.229
80.5	0.229
81.0	0.229
81.5	0.229
82.0	0.229
82.5	0.153

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CANDELA TABULATION - (Cont.)

83.0	0.153
83.5	0.153
84.0	0.153
84.5	0.153
85.0	0.153
85.5	0.153
86.0	0.076
86.5	0.076
87.0	0.076
87.5	0.076
88.0	0.076
88.5	0.076
89.0	0.076
89.5	0.076
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

IES INDOOR REPORT  
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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
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133.0	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
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	880.73	N.A.	34.80
0-30	1640.32	N.A.	64.90
0-40	2219.2	N.A.	87.80
0-60	2525.41	N.A.	99.90
0-80	2528.6	N.A.	100.00
0-90	2528.74	N.A.	100.00
10-90	2269.21	N.A.	89.70
20-40	1338.46	N.A.	52.90
20-50	1599.49	N.A.	63.30
40-70	308.77	N.A.	12.20
60-80	3.19	N.A.	0.10
70-80	0.63	N.A.	0.00
80-90	0.15	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	2528.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	259.53
10-20	621.20
20-30	759.58
30-40	578.88
40-50	261.02
50-60	45.19
60-70	2.56
70-80	0.63
80-90	0.15
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	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	82	76	72	89	81	76	72	80	75	71	78	74	70	76	73	70	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48

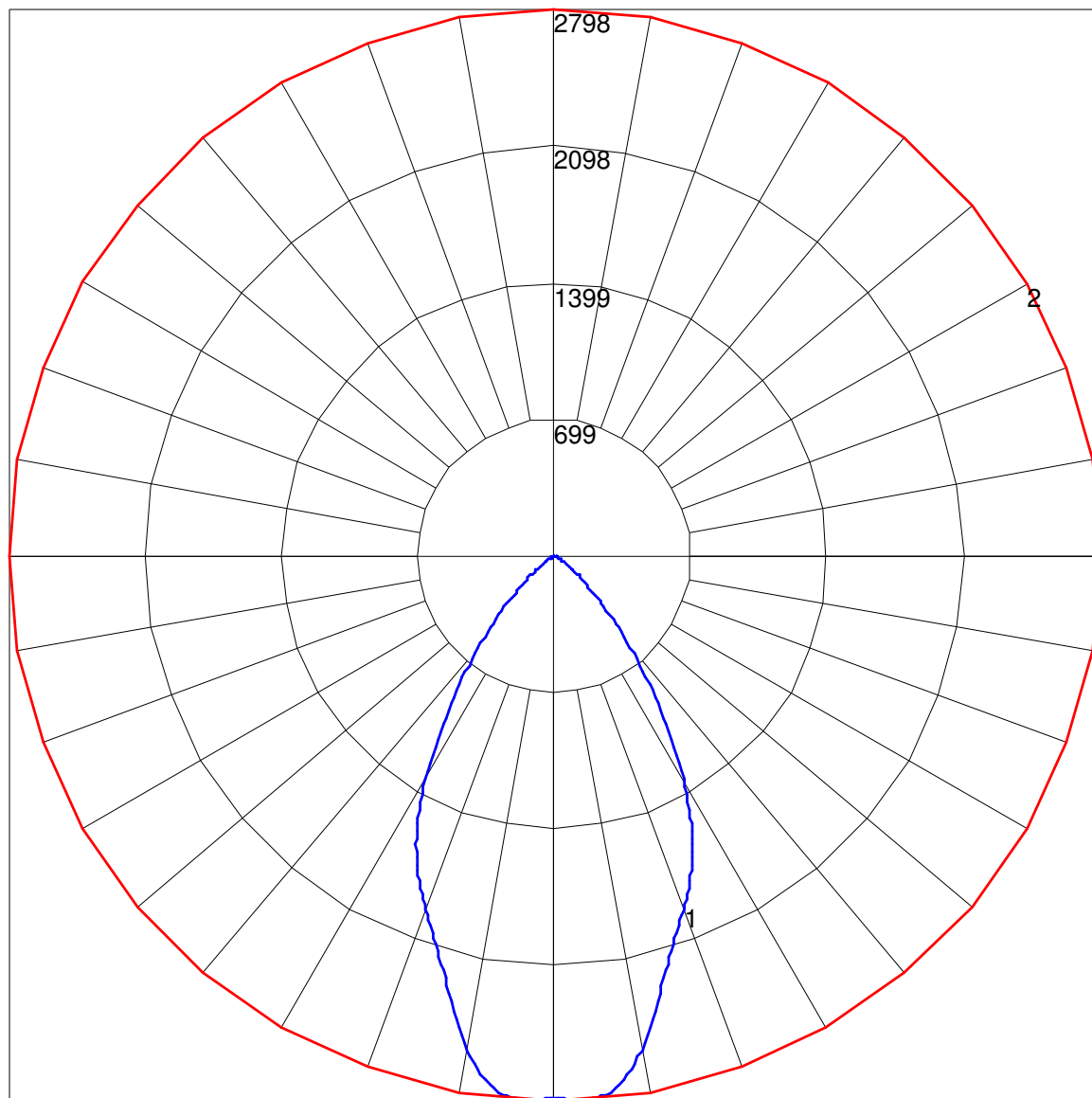
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**UGR TABLE - CORRECTED**

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	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	3H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
4H	2H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	3H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
8H	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	12H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
12H	4H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	6H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	8H	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

Maximum UGR = 3.2

POLAR GRAPH



Maximum Candela = 2797.875 Located At Horizontal Angle = 0, Vertical Angle = 3.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)