

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-935-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-L30-935-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	928
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
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	6546	6546	6546
55	848	848	848
65	294	294	294
75	127	127	127
85	84	84	84

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CANDELA TABULATION

	<u>0</u>
0.0	927.940
0.5	927.940
1.0	927.940
1.5	927.273
2.0	926.605
2.5	925.937
3.0	925.270
3.5	923.267
4.0	921.932
4.5	920.597
5.0	918.594
5.5	917.259
6.0	914.588
6.5	912.586
7.0	909.915
7.5	907.245
8.0	904.575
8.5	901.237
9.0	897.899
9.5	894.561
10.0	891.223
10.5	887.218
11.0	883.212
11.5	879.207
12.0	874.533
12.5	870.528
13.0	865.187
13.5	861.182
14.0	855.841
14.5	851.168
15.0	845.827
15.5	840.487
16.0	835.814
16.5	830.473
17.0	826.468
17.5	821.127
18.0	815.786
18.5	810.446
19.0	803.770
19.5	796.426
20.0	789.083
20.5	781.739
21.0	773.061
21.5	764.382
22.0	754.369
22.5	744.355
23.0	733.006
23.5	720.989
24.0	707.638
24.5	693.619
25.0	679.599
25.5	664.912
26.0	649.558
26.5	633.736

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**CANDELA TABULATION - (Cont.)**

27.0	617.514
27.5	600.825
28.0	583.734
28.5	566.377
29.0	548.953
29.5	531.329
30.0	513.772
30.5	496.081
31.0	478.323
31.5	460.632
32.0	443.075
32.5	425.651
33.0	408.427
33.5	391.537
34.0	374.915
34.5	358.425
35.0	342.336
35.5	326.515
36.0	310.960
36.5	295.539
37.0	280.518
37.5	265.698
38.0	251.211
38.5	236.992
39.0	222.973
39.5	209.154
40.0	195.735
40.5	182.651
41.0	169.900
41.5	157.550
42.0	145.600
42.5	134.051
43.0	123.102
43.5	112.621
44.0	102.674
44.5	93.328
45.0	84.516
45.5	76.238
46.0	68.561
46.5	61.484
47.0	55.009
47.5	49.067
48.0	43.660
48.5	38.720
49.0	34.314
49.5	30.375
50.0	26.837
50.5	23.699
51.0	20.962
51.5	18.626
52.0	16.556
52.5	14.754
53.0	13.218
53.5	11.883
54.0	10.748
54.5	9.747

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**CANDELA TABULATION - (Cont.)**

55.0	8.879
55.5	8.211
56.0	7.610
56.5	7.143
57.0	6.743
57.5	6.342
58.0	5.941
58.5	5.541
59.0	5.207
59.5	4.807
60.0	4.540
60.5	4.206
61.0	3.939
61.5	3.672
62.0	3.405
62.5	3.204
63.0	3.004
63.5	2.804
64.0	2.604
64.5	2.470
65.0	2.270
65.5	2.136
66.0	2.003
66.5	1.869
67.0	1.736
67.5	1.669
68.0	1.535
68.5	1.469
69.0	1.335
69.5	1.268
70.0	1.202
70.5	1.135
71.0	1.068
71.5	1.001
72.0	0.935
72.5	0.868
73.0	0.801
73.5	0.801
74.0	0.734
74.5	0.668
75.0	0.601
75.5	0.601
76.0	0.534
76.5	0.534
77.0	0.467
77.5	0.467
78.0	0.401
78.5	0.401
79.0	0.401
79.5	0.334
80.0	0.334
80.5	0.267
81.0	0.267
81.5	0.267
82.0	0.267
82.5	0.200

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CANDELA TABULATION - (Cont.)

83.0	0.200
83.5	0.200
84.0	0.134
84.5	0.134
85.0	0.134
85.5	0.134
86.0	0.134
86.5	0.067
87.0	0.067
87.5	0.067
88.0	0.067
88.5	0.067
89.0	0.067
89.5	0.067
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
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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
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151.0	0.000
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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	324.75	N.A.	35.00
0-30	630.85	N.A.	68.00
0-40	844.48	N.A.	91.00
0-60	924.95	N.A.	99.60
0-80	928.09	N.A.	100.00
0-90	928.26	N.A.	100.00
10-90	841.43	N.A.	90.60
20-40	519.73	N.A.	56.00
20-50	590.41	N.A.	63.60
40-70	82.91	N.A.	8.90
60-80	3.14	N.A.	0.30
70-80	0.71	N.A.	0.10
80-90	0.16	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	928.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.82
10-20	237.93
20-30	306.10
30-40	213.63
40-50	70.68
50-60	9.79
60-70	2.43
70-80	0.71
80-90	0.16
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	96	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	79	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	62	69	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	54	50	49

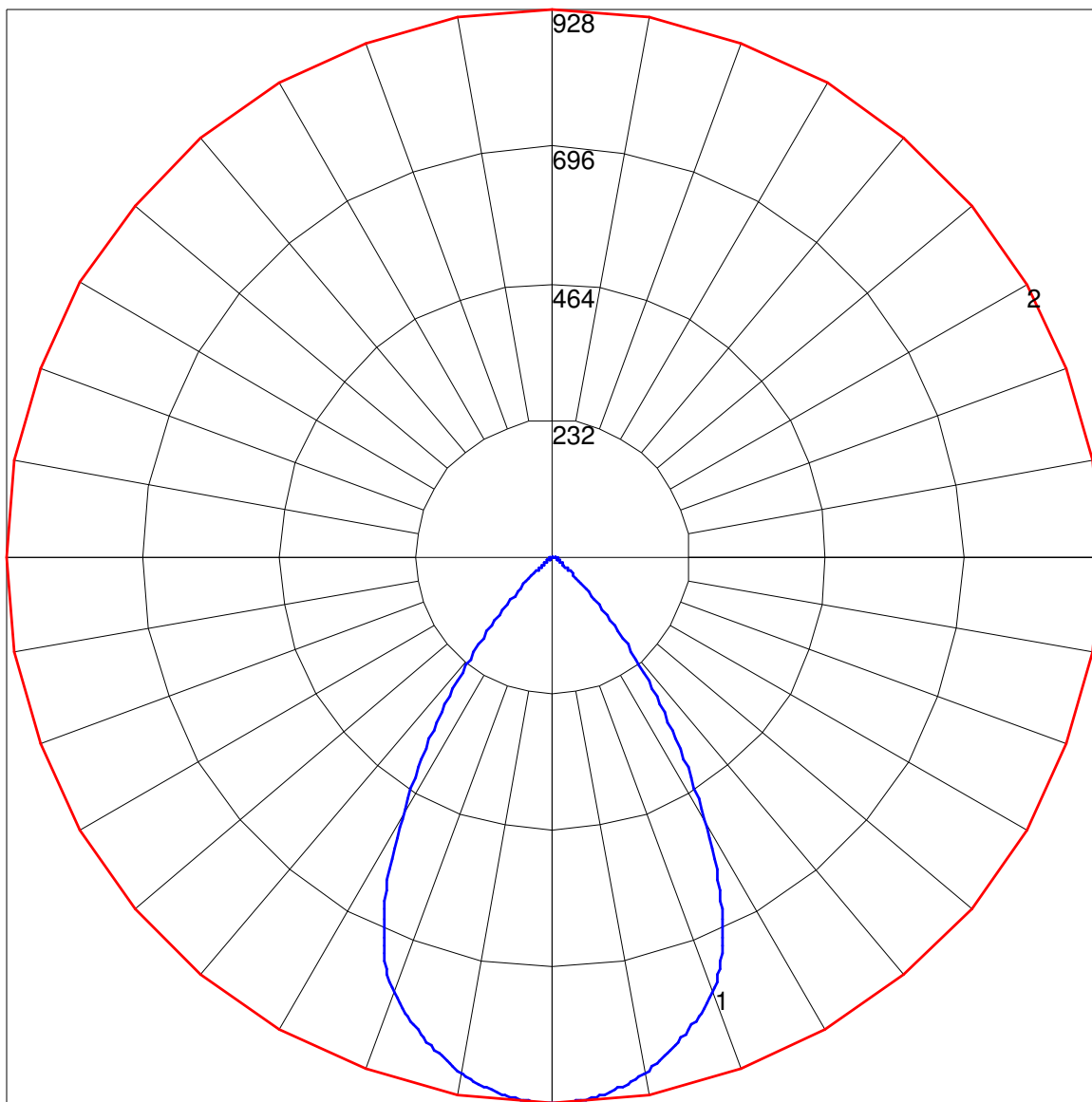
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**UGR TABLE - CORRECTED**

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

Maximum UGR = 1.2

POLAR GRAPH



Maximum Candela = 927.94 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.)