

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-935-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-L15-935-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	1104
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	13311	13311	13311
55	9804	9804	9804
65	7367	7367	7367
75	5583	5583	5583
85	4072	4072	4072

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CANDELA TABULATION

	<u>0</u>
0.0	777.968
0.5	777.968
1.0	777.580
1.5	777.192
2.0	776.416
2.5	776.416
3.0	775.252
3.5	774.476
4.0	772.924
4.5	771.760
5.0	770.596
5.5	769.044
6.0	767.104
6.5	765.552
7.0	763.612
7.5	761.283
8.0	758.955
8.5	756.627
9.0	754.299
9.5	751.583
10.0	748.867
10.5	745.763
11.0	742.659
11.5	739.555
12.0	736.451
12.5	732.958
13.0	729.466
13.5	725.586
14.0	722.094
14.5	717.826
15.0	714.334
15.5	710.066
16.0	705.797
16.5	701.917
17.0	697.261
17.5	692.993
18.0	688.337
18.5	683.681
19.0	679.024
19.5	674.368
20.0	668.936
20.5	664.280
21.0	659.236
21.5	654.192
22.0	648.759
22.5	643.327
23.0	637.507
23.5	631.299
24.0	624.703
24.5	617.718
25.0	610.346
25.5	602.586
26.0	593.661
26.5	584.349

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CANDELA TABULATION - (Cont.)

27.0	574.261
27.5	563.784
28.0	552.532
28.5	540.892
29.0	528.863
29.5	516.059
30.0	503.254
30.5	491.226
31.0	478.033
31.5	465.229
32.0	452.036
32.5	438.456
33.0	424.875
33.5	411.683
34.0	398.490
34.5	385.298
35.0	372.338
35.5	359.611
36.0	347.156
36.5	334.778
37.0	322.711
37.5	310.760
38.0	299.081
38.5	287.596
39.0	276.305
39.5	265.363
40.0	254.692
40.5	244.332
41.0	234.399
41.5	224.893
42.0	215.813
42.5	207.238
43.0	199.129
43.5	191.524
44.0	184.462
44.5	177.904
45.0	171.851
45.5	166.225
46.0	161.103
46.5	156.292
47.0	151.907
47.5	147.872
48.0	144.031
48.5	140.500
49.0	137.085
49.5	133.826
50.0	130.722
50.5	127.657
51.0	124.669
51.5	121.720
52.0	118.849
52.5	116.094
53.0	113.339
53.5	110.662
54.0	107.984
54.5	105.307

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CANDELA TABULATION - (Cont.)

55.0	102.669
55.5	100.030
56.0	97.353
56.5	94.792
57.0	92.231
57.5	89.709
58.0	87.226
58.5	84.781
59.0	82.375
59.5	80.047
60.0	77.719
60.5	75.469
61.0	73.218
61.5	71.045
62.0	68.911
62.5	66.777
63.0	64.721
63.5	62.703
64.0	60.685
64.5	58.745
65.0	56.844
65.5	55.020
66.0	53.197
66.5	51.412
67.0	49.666
67.5	47.959
68.0	46.290
68.5	44.699
69.0	43.070
69.5	41.517
70.0	40.004
70.5	38.491
71.0	37.055
71.5	35.581
72.0	34.184
72.5	32.826
73.0	31.468
73.5	30.187
74.0	28.907
74.5	27.627
75.0	26.385
75.5	25.182
76.0	24.018
76.5	22.854
77.0	21.729
77.5	20.604
78.0	19.517
78.5	18.431
79.0	17.383
79.5	16.374
80.0	15.365
80.5	14.395
81.0	13.425
81.5	12.494
82.0	11.563
82.5	10.670

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CANDELA TABULATION - (Cont.)

83.0	9.778
83.5	8.924
84.0	8.071
84.5	7.256
85.0	6.480
85.5	5.704
86.0	4.928
86.5	4.191
87.0	3.453
87.5	2.755
88.0	2.056
88.5	1.397
89.0	0.815
89.5	0.427
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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125.0	0.000
125.5	0.000
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126.5	0.000
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127.5	0.000
128.0	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
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152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
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154.5	0.000
155.0	0.000
155.5	0.000
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158.5	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	273.59	N.A.	24.80
0-30	549.77	N.A.	49.80
0-40	782.05	N.A.	70.80
0-60	1011.43	N.A.	91.60
0-80	1096.57	N.A.	99.30
0-90	1103.99	N.A.	100.00
10-90	1031.14	N.A.	93.40
20-40	508.46	N.A.	46.10
20-50	645.84	N.A.	58.50
40-70	286.24	N.A.	25.90
60-80	85.14	N.A.	7.70
70-80	28.28	N.A.	2.60
80-90	7.42	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	1103.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.86
10-20	200.73
20-30	276.18
30-40	232.29
40-50	137.38
50-60	92.00
60-70	56.86
70-80	28.28
80-90	7.42
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

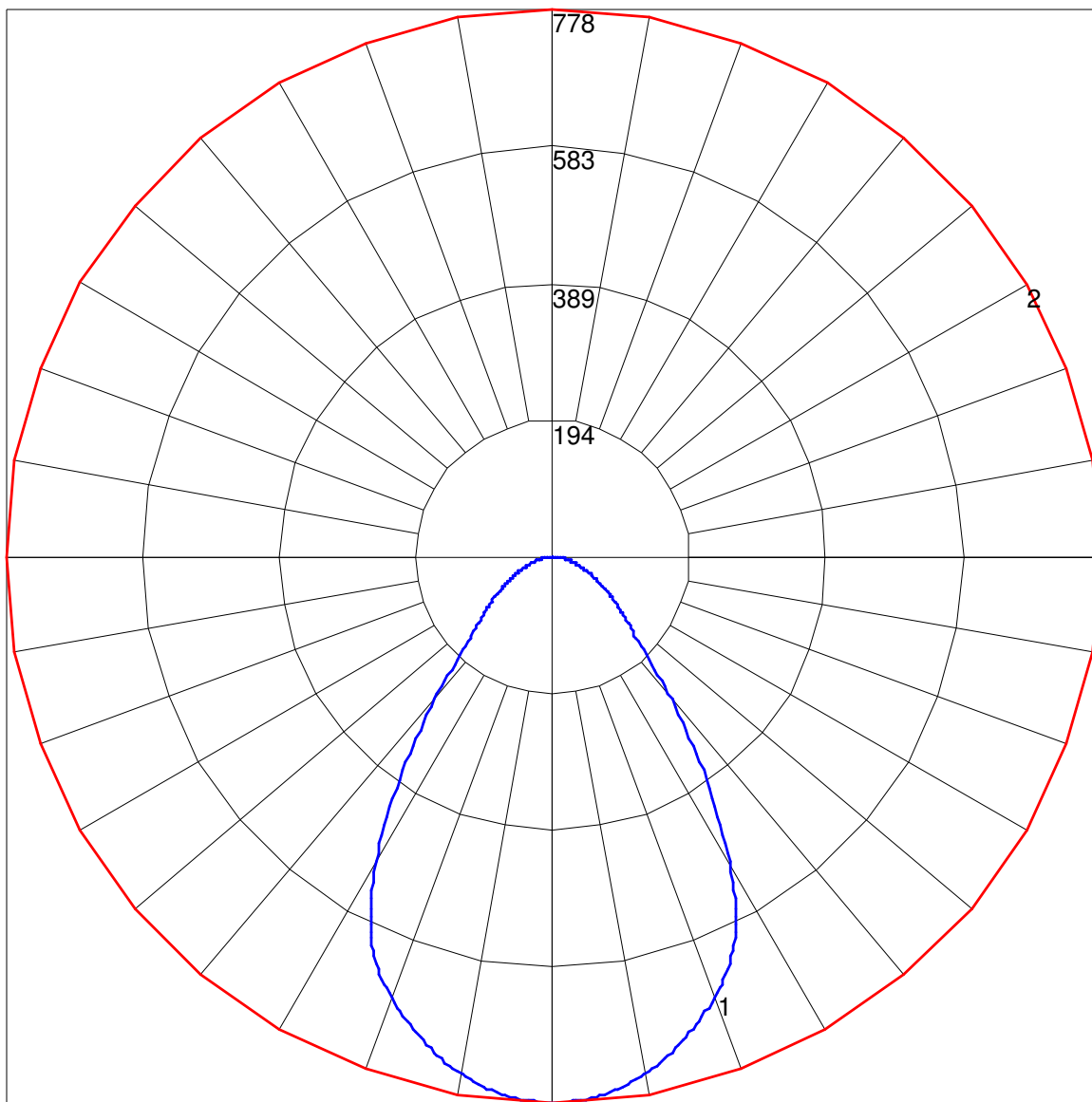
Reflectances

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	17.0	18.3	17.3	18.6	18.9	17.0	18.3	17.3	18.6	18.9
	3H	18.2	19.4	18.6	19.7	20.1	18.2	19.4	18.6	19.7	20.1
	4H	18.6	19.7	19.0	20.1	20.4	18.6	19.7	19.0	20.1	20.4
	6H	18.9	19.9	19.3	20.3	20.7	18.9	19.9	19.3	20.3	20.7
	8H	19.0	19.9	19.4	20.3	20.7	19.0	19.9	19.4	20.3	20.7
	12H	19.1	20.0	19.5	20.3	20.8	19.1	20.0	19.5	20.3	20.8
4H	2H	17.4	18.5	17.8	18.8	19.2	17.4	18.5	17.8	18.8	19.2
	3H	18.8	19.7	19.2	20.1	20.5	18.8	19.7	19.2	20.1	20.5
	4H	19.3	20.1	19.8	20.5	21.0	19.3	20.1	19.8	20.5	21.0
	6H	19.7	20.4	20.2	20.9	21.3	19.7	20.4	20.2	20.9	21.3
	8H	19.9	20.5	20.3	20.9	21.4	19.9	20.5	20.3	20.9	21.4
	12H	19.9	20.5	20.4	21.0	21.5	19.9	20.5	20.4	21.0	21.5
8H	4H	19.5	20.1	20.0	20.6	21.1	19.5	20.1	20.0	20.6	21.1
	6H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	8H	20.2	20.6	20.7	21.2	21.6	20.2	20.6	20.7	21.2	21.6
	12H	20.3	20.7	20.8	21.2	21.8	20.3	20.7	20.8	21.2	21.8
12H	4H	19.5	20.1	20.0	20.5	21.0	19.5	20.1	20.0	20.5	21.0
	6H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	8H	20.2	20.6	20.7	21.1	21.7	20.2	20.6	20.7	21.1	21.7

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 777.968 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.)