

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-940-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-L15-940-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	1144
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	13792	13792	13792
55	10158	10158	10158
65	7633	7633	7633
75	5785	5785	5785
85	4219	4219	4219

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CANDELA TABULATION

	<u>0</u>
0.0	806.088
0.5	806.088
1.0	805.686
1.5	805.284
2.0	804.479
2.5	804.479
3.0	803.273
3.5	802.469
4.0	800.861
4.5	799.655
5.0	798.449
5.5	796.841
6.0	794.830
6.5	793.222
7.0	791.212
7.5	788.800
8.0	786.388
8.5	783.975
9.0	781.563
9.5	778.749
10.0	775.935
10.5	772.718
11.0	769.502
11.5	766.286
12.0	763.069
12.5	759.451
13.0	755.833
13.5	751.812
14.0	748.194
14.5	743.772
15.0	740.153
15.5	735.731
16.0	731.308
16.5	727.288
17.0	722.464
17.5	718.041
18.0	713.217
18.5	708.392
19.0	703.568
19.5	698.743
20.0	693.115
20.5	688.290
21.0	683.064
21.5	677.837
22.0	672.209
22.5	666.580
23.0	660.550
23.5	654.117
24.0	647.282
24.5	640.046
25.0	632.407
25.5	624.366
26.0	615.119
26.5	605.470

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CANDELA TABULATION - (Cont.)

27.0	595.017
27.5	584.162
28.0	572.503
28.5	560.442
29.0	547.979
29.5	534.711
30.0	521.444
30.5	508.981
31.0	495.312
31.5	482.044
32.0	468.375
32.5	454.304
33.0	440.232
33.5	426.563
34.0	412.894
34.5	399.224
35.0	385.796
35.5	372.609
36.0	359.704
36.5	346.879
37.0	334.376
37.5	321.993
38.0	309.891
38.5	297.991
39.0	286.292
39.5	274.954
40.0	263.898
40.5	253.164
41.0	242.872
41.5	233.022
42.0	223.614
42.5	214.729
43.0	206.326
43.5	198.446
44.0	191.129
44.5	184.335
45.0	178.063
45.5	172.233
46.0	166.926
46.5	161.941
47.0	157.398
47.5	153.217
48.0	149.237
48.5	145.578
49.0	142.040
49.5	138.663
50.0	135.447
50.5	132.271
51.0	129.175
51.5	126.120
52.0	123.144
52.5	120.290
53.0	117.436
53.5	114.661
54.0	111.887
54.5	109.113

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CANDELA TABULATION - (Cont.)

55.0	106.379
55.5	103.646
56.0	100.872
56.5	98.218
57.0	95.565
57.5	92.951
58.0	90.378
58.5	87.845
59.0	85.353
59.5	82.941
60.0	80.528
60.5	78.197
61.0	75.865
61.5	73.613
62.0	71.402
62.5	69.191
63.0	67.060
63.5	64.969
64.0	62.879
64.5	60.869
65.0	58.899
65.5	57.009
66.0	55.120
66.5	53.270
67.0	51.461
67.5	49.692
68.0	47.963
68.5	46.315
69.0	44.626
69.5	43.018
70.0	41.450
70.5	39.882
71.0	38.395
71.5	36.867
72.0	35.420
72.5	34.012
73.0	32.605
73.5	31.279
74.0	29.952
74.5	28.625
75.0	27.339
75.5	26.092
76.0	24.886
76.5	23.680
77.0	22.514
77.5	21.348
78.0	20.223
78.5	19.097
79.0	18.011
79.5	16.966
80.0	15.921
80.5	14.916
81.0	13.911
81.5	12.946
82.0	11.981
82.5	11.056

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CANDELA TABULATION - (Cont.)

83.0	10.131
83.5	9.247
84.0	8.362
84.5	7.518
85.0	6.714
85.5	5.910
86.0	5.106
86.5	4.342
87.0	3.578
87.5	2.854
88.0	2.131
88.5	1.447
89.0	0.844
89.5	0.442
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
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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
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149.0	0.000
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150.0	0.000
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151.0	0.000
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152.0	0.000
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153.0	0.000
153.5	0.000
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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	283.48	N.A.	24.80
0-30	569.64	N.A.	49.80
0-40	810.32	N.A.	70.80
0-60	1047.99	N.A.	91.60
0-80	1136.2	N.A.	99.30
0-90	1143.9	N.A.	100.00
10-90	1068.41	N.A.	93.40
20-40	526.84	N.A.	46.10
20-50	669.18	N.A.	58.50
40-70	296.59	N.A.	25.90
60-80	88.22	N.A.	7.70
70-80	29.30	N.A.	2.60
80-90	7.69	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	1143.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.49
10-20	207.99
20-30	286.16
30-40	240.68
40-50	142.34
50-60	95.33
60-70	58.92
70-80	29.30
80-90	7.69
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	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	17.1	18.4	17.4	18.7	19.0	UGR Viewed Endwise	17.1	18.4	17.4	18.7	19.0
	3H	18.3	19.5	18.7	19.8	20.2		18.3	19.5	18.7	19.8	20.2
	4H	18.7	19.8	19.1	20.2	20.5		18.7	19.8	19.1	20.2	20.5
	6H	19.0	20.0	19.4	20.4	20.8		19.0	20.0	19.4	20.4	20.8
	8H	19.1	20.0	19.5	20.4	20.8		19.1	20.0	19.5	20.4	20.8
	12H	19.2	20.1	19.6	20.4	20.9		19.2	20.1	19.6	20.4	20.9

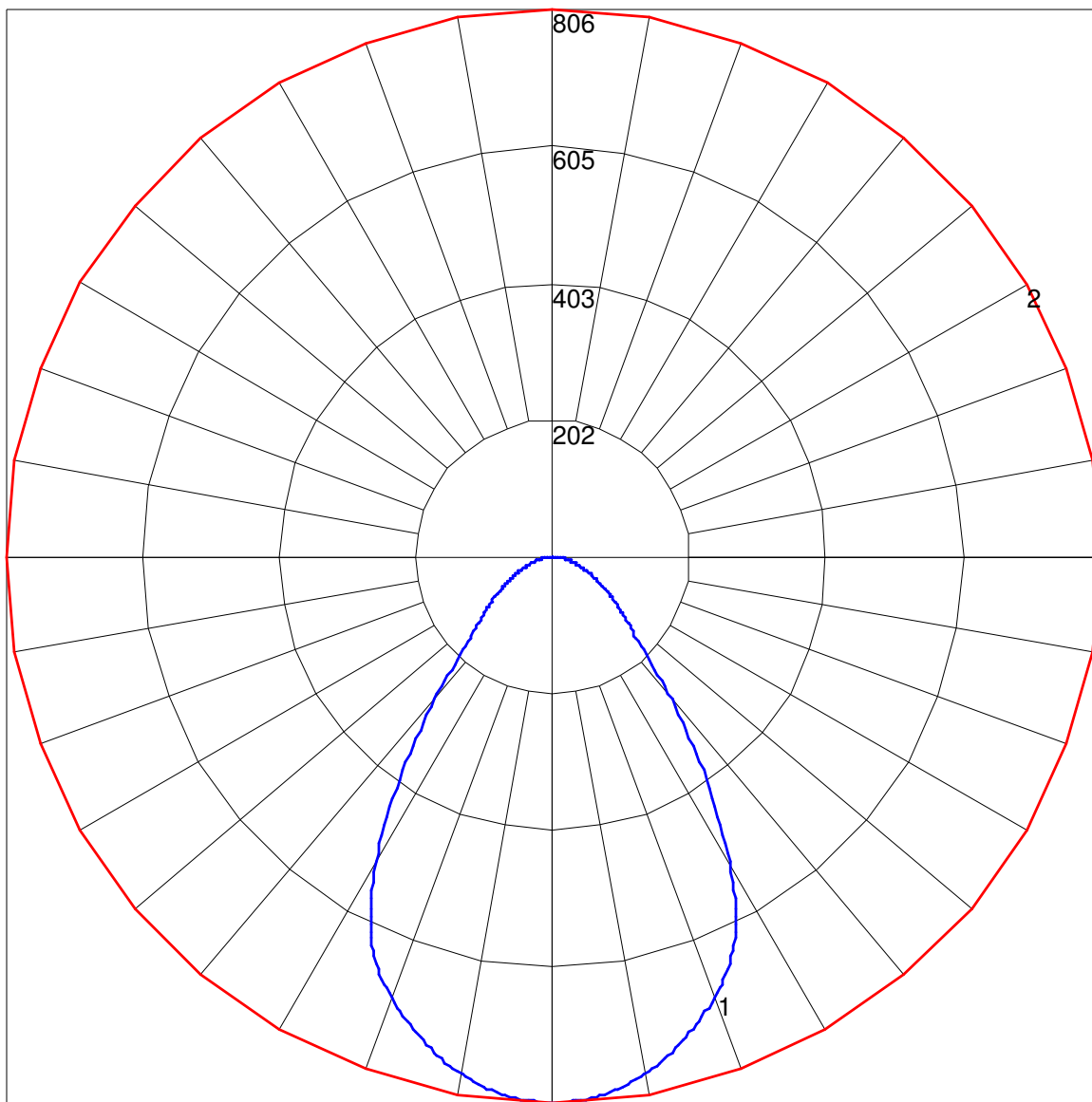
4H	2H	17.5	18.6	17.9	18.9	19.3	17.5	18.6	17.9	18.9	19.3
	3H	18.9	19.8	19.3	20.2	20.6	18.9	19.8	19.3	20.2	20.6
	4H	19.4	20.2	19.9	20.6	21.1	19.4	20.2	19.9	20.6	21.1
	6H	19.8	20.5	20.3	21.0	21.4	19.8	20.5	20.3	21.0	21.4
	8H	20.0	20.6	20.4	21.0	21.5	20.0	20.6	20.4	21.0	21.5
	12H	20.0	20.6	20.5	21.1	21.6	20.0	20.6	20.5	21.1	21.6

8H	4H	19.6	20.2	20.1	20.7	21.2	19.6	20.2	20.1	20.7	21.2
	6H	20.1	20.6	20.6	21.1	21.6	20.1	20.6	20.6	21.1	21.6
	8H	20.3	20.7	20.8	21.3	21.7	20.3	20.7	20.8	21.3	21.7
	12H	20.4	20.8	20.9	21.3	21.9	20.4	20.8	20.9	21.3	21.9

12H	4H	19.6	20.2	20.1	20.6	21.1	19.6	20.2	20.1	20.6	21.1
	6H	20.1	20.6	20.6	21.1	21.6	20.1	20.6	20.6	21.1	21.6
	8H	20.3	20.7	20.8	21.2	21.8	20.3	20.7	20.8	21.2	21.8

Maximum UGR = 21.9

POLAR GRAPH



Maximum Candela = 806.088 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.)