

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L15-940-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-L15-940-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	1335
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	13.8
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	13354	13354	13354
55	1463	1463	1463
65	162	162	162
75	60	60	60
85	51	51	51

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CANDELA TABULATION

	<u>0</u>
0.0	1472.989
0.5	1472.989
1.0	1472.989
1.5	1473.795
2.0	1474.602
2.5	1475.408
3.0	1476.214
3.5	1476.617
4.0	1475.811
4.5	1474.199
5.0	1470.974
5.5	1466.539
6.0	1460.089
6.5	1452.833
7.0	1443.965
7.5	1434.290
8.0	1421.390
8.5	1408.894
9.0	1394.381
9.5	1377.854
10.0	1361.326
10.5	1343.186
11.0	1323.836
11.5	1302.874
12.0	1283.524
12.5	1262.562
13.0	1240.391
13.5	1222.654
14.0	1202.095
14.5	1182.342
15.0	1164.605
15.5	1148.077
16.0	1129.534
16.5	1115.828
17.0	1100.912
17.5	1085.997
18.0	1072.694
18.5	1058.182
19.0	1045.282
19.5	1032.786
20.0	1020.289
20.5	1007.792
21.0	995.296
21.5	982.799
22.0	970.302
22.5	956.596
23.0	943.697
23.5	929.991
24.0	915.882
24.5	901.369
25.0	886.051
25.5	869.926
26.0	853.399
26.5	835.661

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CANDELA TABULATION - (Cont.)

27.0	817.521
27.5	798.978
28.0	779.225
28.5	759.472
29.0	738.913
29.5	718.757
30.0	697.392
30.5	676.430
31.0	655.065
31.5	634.103
32.0	612.738
32.5	591.373
33.0	570.410
33.5	549.851
34.0	528.889
34.5	508.734
35.0	490.593
35.5	471.244
36.0	451.894
36.5	432.948
37.0	414.001
37.5	395.337
38.0	377.116
38.5	359.217
39.0	341.722
39.5	324.630
40.0	307.941
40.5	291.857
41.0	276.135
41.5	261.059
42.0	246.506
42.5	232.598
43.0	219.296
43.5	206.678
44.0	194.585
44.5	183.217
45.0	172.413
45.5	162.134
46.0	152.378
46.5	143.066
47.0	134.157
47.5	125.611
48.0	117.388
48.5	109.406
49.0	101.545
49.5	93.846
50.0	86.227
50.5	78.648
51.0	71.110
51.5	63.491
52.0	55.912
52.5	48.213
53.0	40.594
53.5	33.257
54.0	26.444
54.5	20.438

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CANDELA TABULATION - (Cont.)

55.0	15.318
55.5	11.368
56.0	8.586
56.5	6.732
57.0	5.563
57.5	4.757
58.0	4.152
58.5	3.709
59.0	3.346
59.5	3.023
60.0	2.741
60.5	2.540
61.0	2.298
61.5	2.137
62.0	1.975
62.5	1.814
63.0	1.653
63.5	1.532
64.0	1.451
64.5	1.330
65.0	1.250
65.5	1.129
66.0	1.088
66.5	1.008
67.0	0.927
67.5	0.847
68.0	0.806
68.5	0.726
69.0	0.685
69.5	0.645
70.0	0.605
70.5	0.564
71.0	0.524
71.5	0.484
72.0	0.443
72.5	0.403
73.0	0.363
73.5	0.363
74.0	0.322
74.5	0.322
75.0	0.282
75.5	0.282
76.0	0.242
76.5	0.242
77.0	0.202
77.5	0.202
78.0	0.202
78.5	0.161
79.0	0.161
79.5	0.161
80.0	0.121
80.5	0.121
81.0	0.121
81.5	0.121
82.0	0.121
82.5	0.081

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CANDELA TABULATION - (Cont.)

83.0	0.081
83.5	0.081
84.0	0.081
84.5	0.081
85.0	0.081
85.5	0.081
86.0	0.040
86.5	0.040
87.0	0.040
87.5	0.040
88.0	0.040
88.5	0.040
89.0	0.040
89.5	0.040
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
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
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158.0	0.000
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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	464.82	N.A.	34.80
0-30	865.70	N.A.	64.90
0-40	1171.21	N.A.	87.80
0-60	1332.82	N.A.	99.90
0-80	1334.5	N.A.	100.00
0-90	1334.58	N.A.	100.00
10-90	1197.61	N.A.	89.70
20-40	706.39	N.A.	52.90
20-50	844.15	N.A.	63.30
40-70	162.96	N.A.	12.20
60-80	1.68	N.A.	0.10
70-80	0.33	N.A.	0.00
80-90	0.08	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	1334.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.97
10-20	327.85
20-30	400.88
30-40	305.51
40-50	137.76
50-60	23.85
60-70	1.35
70-80	0.33
80-90	0.08
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	61	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

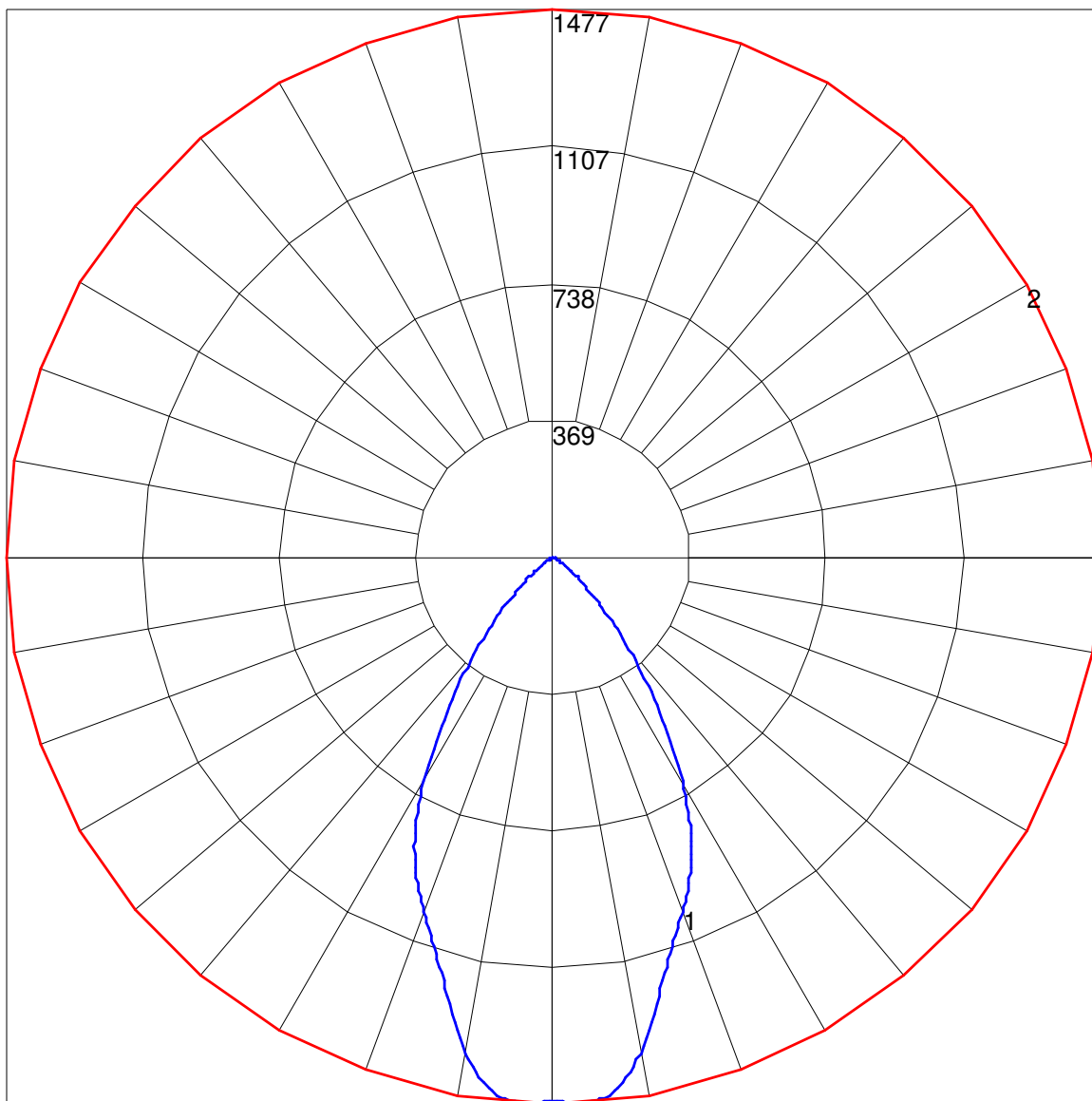
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UGR TABLE - CORRECTED

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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	3H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	4H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	6H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	8H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	12H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4H	2H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	3H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	4H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	6H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	8H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	12H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8H	4H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	6H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	8H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	12H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12H	4H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	6H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	8H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Maximum UGR = 1.0

POLAR GRAPH



Maximum Candela = 1476.617 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.)