

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-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-L10-940-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	755
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	9.3
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	9105	9105	9105
55	6706	6706	6706
65	5039	5039	5039
75	3819	3819	3819
85	2785	2785	2785

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

CANDELA TABULATION

	<u>0</u>
0.0	532.139
0.5	532.139
1.0	531.874
1.5	531.608
2.0	531.077
2.5	531.077
3.0	530.281
3.5	529.750
4.0	528.689
4.5	527.893
5.0	527.096
5.5	526.035
6.0	524.708
6.5	523.646
7.0	522.319
7.5	520.727
8.0	519.134
8.5	517.542
9.0	515.949
9.5	514.091
10.0	512.234
10.5	510.110
11.0	507.987
11.5	505.864
12.0	503.741
12.5	501.352
13.0	498.963
13.5	496.309
14.0	493.921
14.5	491.001
15.0	488.612
15.5	485.693
16.0	482.774
16.5	480.119
17.0	476.935
17.5	474.015
18.0	470.830
18.5	467.645
19.0	464.461
19.5	461.276
20.0	457.560
20.5	454.375
21.0	450.925
21.5	447.475
22.0	443.759
22.5	440.043
23.0	436.062
23.5	431.816
24.0	427.304
24.5	422.526
25.0	417.484
25.5	412.176
26.0	406.071
26.5	399.701

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	392.801
27.5	385.635
28.0	377.938
28.5	369.976
29.0	361.748
29.5	352.990
30.0	344.232
30.5	336.004
31.0	326.980
31.5	318.222
32.0	309.198
32.5	299.909
33.0	290.620
33.5	281.596
34.0	272.572
34.5	263.548
35.0	254.684
35.5	245.978
36.0	237.459
36.5	228.992
37.0	220.738
37.5	212.564
38.0	204.575
38.5	196.719
39.0	188.996
39.5	181.511
40.0	174.213
40.5	167.126
41.0	160.332
41.5	153.829
42.0	147.619
42.5	141.753
43.0	136.206
43.5	131.004
44.0	126.174
44.5	121.689
45.0	117.548
45.5	113.700
46.0	110.197
46.5	106.906
47.0	103.906
47.5	101.146
48.0	98.519
48.5	96.104
49.0	93.768
49.5	91.539
50.0	89.415
50.5	87.319
51.0	85.275
51.5	83.258
52.0	81.294
52.5	79.409
53.0	77.525
53.5	75.694
54.0	73.862
54.5	72.031

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	70.226
55.5	68.422
56.0	66.590
56.5	64.839
57.0	63.087
57.5	61.362
58.0	59.663
58.5	57.991
59.0	56.346
59.5	54.753
60.0	53.161
60.5	51.621
61.0	50.082
61.5	48.596
62.0	47.136
62.5	45.676
63.0	44.270
63.5	42.890
64.0	41.510
64.5	40.182
65.0	38.882
65.5	37.635
66.0	36.387
66.5	35.166
67.0	33.972
67.5	32.804
68.0	31.663
68.5	30.575
69.0	29.460
69.5	28.398
70.0	27.363
70.5	26.328
71.0	25.346
71.5	24.338
72.0	23.382
72.5	22.453
73.0	21.524
73.5	20.649
74.0	19.773
74.5	18.897
75.0	18.048
75.5	17.225
76.0	16.429
76.5	15.632
77.0	14.863
77.5	14.093
78.0	13.350
78.5	12.607
79.0	11.890
79.5	11.200
80.0	10.510
80.5	9.847
81.0	9.183
81.5	8.546
82.0	7.909
82.5	7.299

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	6.688
83.5	6.104
84.0	5.520
84.5	4.963
85.0	4.432
85.5	3.901
86.0	3.371
86.5	2.866
87.0	2.362
87.5	1.884
88.0	1.407
88.5	0.955
89.0	0.557
89.5	0.292
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
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

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
132.5	0.000
133.0	0.000
133.5	0.000
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	187.14	N.A.	24.80
0-30	376.05	N.A.	49.80
0-40	534.93	N.A.	70.80
0-60	691.83	N.A.	91.60
0-80	750.07	N.A.	99.30
0-90	755.14	N.A.	100.00
10-90	705.31	N.A.	93.40
20-40	347.80	N.A.	46.10
20-50	441.76	N.A.	58.50
40-70	195.79	N.A.	25.90
60-80	58.24	N.A.	7.70
70-80	19.34	N.A.	2.60
80-90	5.08	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	755.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.83
10-20	137.30
20-30	188.91
30-40	158.89
40-50	93.97
50-60	62.93
60-70	38.89
70-80	19.34
80-90	5.08
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

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	112	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L10-940-WH-DIM-UNV_.IES

UGR TABLE - CORRECTED

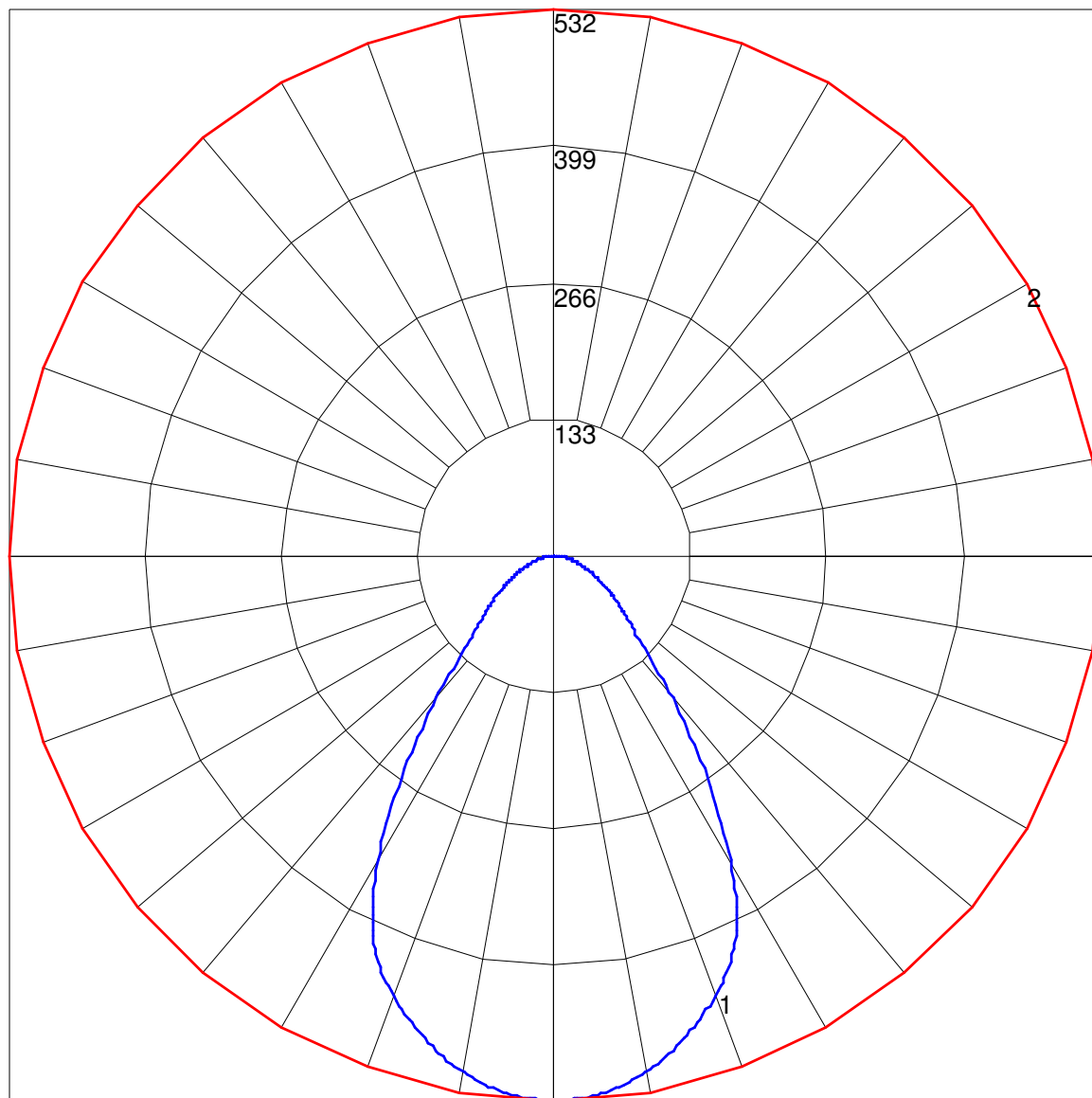
Reflectances

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	15.6	16.9	15.9	17.2	17.5	15.6	16.9	15.9	17.2	17.5
	3H	16.8	18.0	17.2	18.3	18.7	16.8	18.0	17.2	18.3	18.7
	4H	17.2	18.3	17.6	18.7	19.0	17.2	18.3	17.6	18.7	19.0
	6H	17.5	18.5	17.9	18.9	19.3	17.5	18.5	17.9	18.9	19.3
	8H	17.6	18.5	18.0	18.9	19.3	17.6	18.5	18.0	18.9	19.3
	12H	17.7	18.6	18.1	18.9	19.4	17.7	18.6	18.1	18.9	19.4
4H	2H	16.0	17.1	16.4	17.4	17.8	16.0	17.1	16.4	17.4	17.8
	3H	17.4	18.3	17.8	18.7	19.1	17.4	18.3	17.8	18.7	19.1
	4H	17.9	18.7	18.3	19.1	19.6	17.9	18.7	18.3	19.1	19.6
	6H	18.3	19.0	18.8	19.5	19.9	18.3	19.0	18.8	19.5	19.9
	8H	18.5	19.1	18.9	19.5	20.0	18.5	19.1	18.9	19.5	20.0
	12H	18.5	19.1	19.0	19.6	20.1	18.5	19.1	19.0	19.6	20.1
8H	4H	18.1	18.7	18.6	19.2	19.7	18.1	18.7	18.6	19.2	19.7
	6H	18.6	19.1	19.1	19.6	20.1	18.6	19.1	19.1	19.6	20.1
	8H	18.8	19.2	19.3	19.8	20.2	18.8	19.2	19.3	19.8	20.2
	12H	18.9	19.3	19.4	19.8	20.4	18.9	19.3	19.4	19.8	20.4
12H	4H	18.1	18.7	18.6	19.1	19.6	18.1	18.7	18.6	19.1	19.6
	6H	18.6	19.1	19.1	19.6	20.1	18.6	19.1	19.1	19.6	20.1
	8H	18.8	19.2	19.3	19.7	20.3	18.8	19.2	19.3	19.7	20.3

Maximum UGR = 20.4

POLAR GRAPH



Maximum Candela = 532.139 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.)