

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-940-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-L30-940-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	2246
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	26
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	27076	27076	27076
55	19941	19941	19941
65	14985	14985	14985
75	11357	11357	11357
85	8283	8283	8283

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-940-WH-DIM-UNV_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1582.477
0.5	1582.477
1.0	1581.688
1.5	1580.899
2.0	1579.320
2.5	1579.320
3.0	1576.952
3.5	1575.374
4.0	1572.217
4.5	1569.849
5.0	1567.481
5.5	1564.324
6.0	1560.378
6.5	1557.221
7.0	1553.274
7.5	1548.539
8.0	1543.803
8.5	1539.068
9.0	1534.332
9.5	1528.807
10.0	1523.282
10.5	1516.968
11.0	1510.654
11.5	1504.340
12.0	1498.026
12.5	1490.922
13.0	1483.819
13.5	1475.926
14.0	1468.823
14.5	1460.141
15.0	1453.038
15.5	1444.356
16.0	1435.674
16.5	1427.781
17.0	1418.310
17.5	1409.628
18.0	1400.157
18.5	1390.686
19.0	1381.214
19.5	1371.743
20.0	1360.694
20.5	1351.222
21.0	1340.962
21.5	1330.701
22.0	1319.652
22.5	1308.602
23.0	1296.763
23.5	1284.135
24.0	1270.717
24.5	1256.511
25.0	1241.514
25.5	1225.729
26.0	1207.576
26.5	1188.634

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-940-WH-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	1168.113
27.5	1146.803
28.0	1123.914
28.5	1100.236
29.0	1075.769
29.5	1049.723
30.0	1023.677
30.5	999.210
31.0	972.375
31.5	946.329
32.0	919.494
32.5	891.870
33.0	864.246
33.5	837.411
34.0	810.576
34.5	783.741
35.0	757.379
35.5	731.491
36.0	706.156
36.5	680.978
37.0	656.432
37.5	632.123
38.0	608.366
38.5	585.004
39.0	562.036
39.5	539.779
40.0	518.074
40.5	497.000
41.0	476.795
41.5	457.458
42.0	438.989
42.5	421.547
43.0	405.051
43.5	389.581
44.0	375.217
44.5	361.878
45.0	349.566
45.5	338.121
46.0	327.703
46.5	317.916
47.0	308.997
47.5	300.789
48.0	292.975
48.5	285.793
49.0	278.847
49.5	272.218
50.0	265.904
50.5	259.668
51.0	253.591
51.5	247.593
52.0	241.752
52.5	236.148
53.0	230.544
53.5	225.098
54.0	219.653
54.5	214.207

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-940-WH-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	208.840
55.5	203.473
56.0	198.027
56.5	192.818
57.0	187.608
57.5	182.478
58.0	177.427
58.5	172.454
59.0	167.561
59.5	162.825
60.0	158.090
60.5	153.512
61.0	148.934
61.5	144.514
62.0	140.174
62.5	135.833
63.0	131.649
63.5	127.545
64.0	123.441
64.5	119.495
65.0	115.627
65.5	111.918
66.0	108.208
66.5	104.578
67.0	101.026
67.5	97.553
68.0	94.159
68.5	90.923
69.0	87.608
69.5	84.451
70.0	81.373
70.5	78.295
71.0	75.375
71.5	72.376
72.0	69.534
72.5	66.772
73.0	64.009
73.5	61.405
74.0	58.800
74.5	56.196
75.0	53.670
75.5	51.223
76.0	48.856
76.5	46.488
77.0	44.199
77.5	41.910
78.0	39.700
78.5	37.490
79.0	35.359
79.5	33.307
80.0	31.255
80.5	29.282
81.0	27.309
81.5	25.414
82.0	23.520
82.5	21.705

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-940-WH-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	19.889
83.5	18.153
84.0	16.417
84.5	14.759
85.0	13.181
85.5	11.602
86.0	10.024
86.5	8.524
87.0	7.024
87.5	5.604
88.0	4.183
88.5	2.841
89.0	1.657
89.5	0.868
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-L30-940-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-L30-940-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-L30-940-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-L30-940-WH-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	556.51	N.A.	24.80
0-30	1118.29	N.A.	49.80
0-40	1590.79	N.A.	70.80
0-60	2057.37	N.A.	91.60
0-80	2230.55	N.A.	99.30
0-90	2245.65	N.A.	100.00
10-90	2097.45	N.A.	93.40
20-40	1034.27	N.A.	46.10
20-50	1313.71	N.A.	58.50
40-70	582.25	N.A.	25.90
60-80	173.18	N.A.	7.70
70-80	57.52	N.A.	2.60
80-90	15.10	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	2245.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.20
10-20	408.31
20-30	561.78
30-40	472.50
40-50	279.44
50-60	187.14
60-70	115.66
70-80	57.52
80-90	15.10
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-L30-940-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	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-940-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

X=2H	Y=2H	19.4	20.7	19.7	21.0	21.3	19.4	20.7	19.7	21.0	21.3
	3H	20.6	21.8	21.0	22.1	22.5	20.6	21.8	21.0	22.1	22.5
	4H	21.0	22.1	21.4	22.5	22.8	21.0	22.1	21.4	22.5	22.8
	6H	21.3	22.3	21.7	22.7	23.1	21.3	22.3	21.7	22.7	23.1
	8H	21.4	22.3	21.8	22.7	23.1	21.4	22.3	21.8	22.7	23.1
	12H	21.4	22.3	21.9	22.7	23.2	21.4	22.3	21.9	22.7	23.2

UGR Viewed Endwise

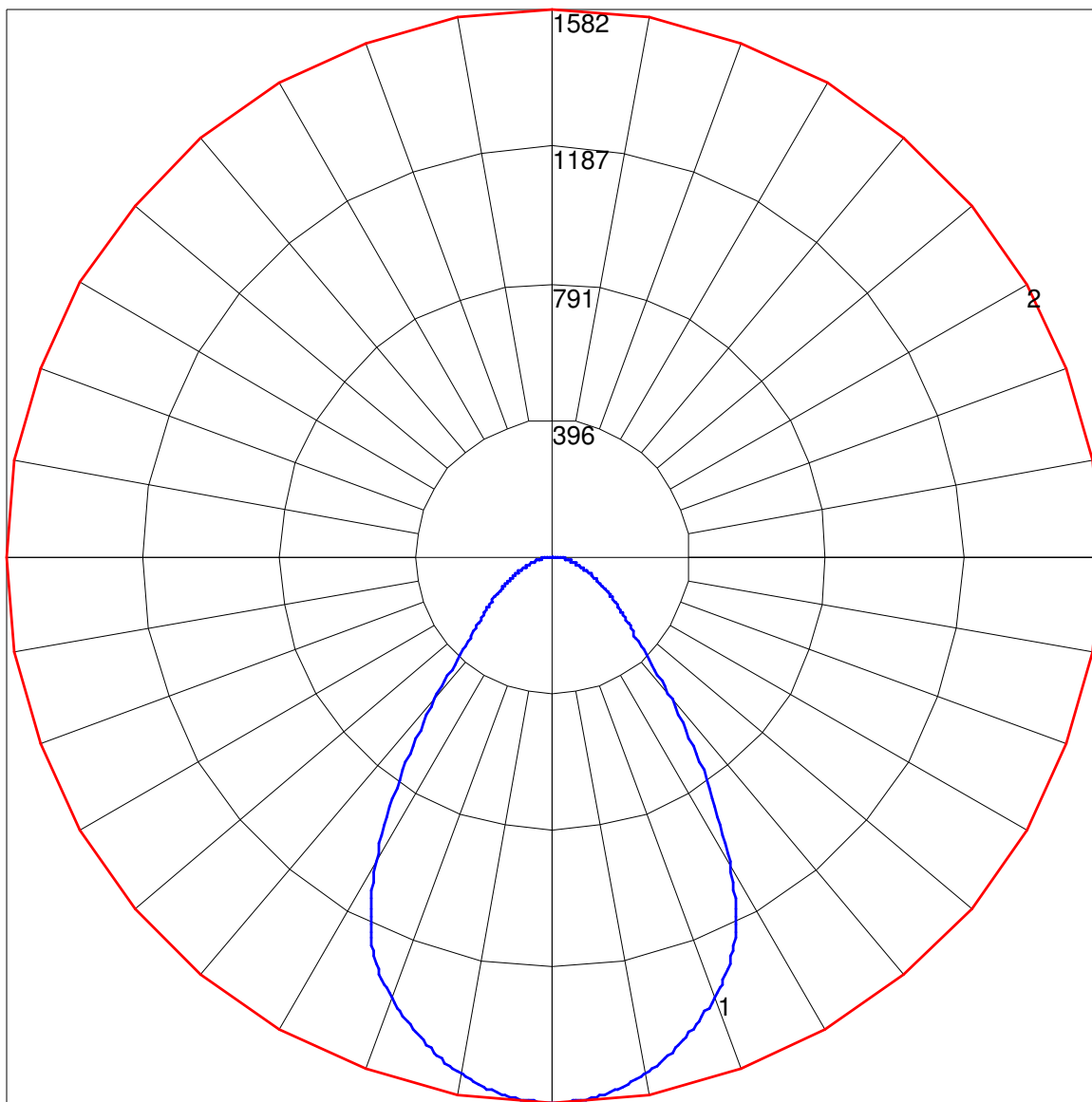
4H	2H	19.8	20.9	20.2	21.2	21.6	19.8	20.9	20.2	21.2	21.6
	3H	21.2	22.1	21.6	22.5	22.9	21.2	22.1	21.6	22.5	22.9
	4H	21.7	22.5	22.1	22.9	23.4	21.7	22.5	22.1	22.9	23.4
	6H	22.1	22.8	22.6	23.3	23.7	22.1	22.8	22.6	23.3	23.7
	8H	22.3	22.9	22.7	23.3	23.8	22.3	22.9	22.7	23.3	23.8
	12H	22.3	22.9	22.8	23.4	23.9	22.3	22.9	22.8	23.4	23.9

8H	4H	21.9	22.5	22.4	23.0	23.4	21.9	22.5	22.4	23.0	23.4
	6H	22.4	22.9	22.9	23.4	23.9	22.4	22.9	22.9	23.4	23.9
	8H	22.6	23.0	23.1	23.6	24.0	22.6	23.0	23.1	23.6	24.0
	12H	22.7	23.1	23.2	23.6	24.2	22.7	23.1	23.2	23.6	24.2

12H	4H	21.9	22.5	22.4	22.9	23.4	21.9	22.5	22.4	22.9	23.4
	6H	22.4	22.9	22.9	23.4	23.9	22.4	22.9	22.9	23.4	23.9
	8H	22.6	23.0	23.1	23.5	24.1	22.6	23.0	23.1	23.5	24.1

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1582.477 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.)