

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-930-BL-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.05
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-11
[TEST DATE] 11/11/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6LDR-L30-930-BL-DIM-UNV
[LUMINAIRE] 4" recessed downlight with textured black 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	917
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.94
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	6467	6467	6467
55	838	838	838
65	291	291	291
75	126	126	126
85	83	83	83

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-930-BL-DIM-UNV_.IES

CANDELA TABULATION

	<u>0</u>
0.0	916.760
0.5	916.760
1.0	916.760
1.5	916.100
2.0	915.441
2.5	914.781
3.0	914.122
3.5	912.143
4.0	910.824
4.5	909.505
5.0	907.526
5.5	906.207
6.0	903.569
6.5	901.591
7.0	898.952
7.5	896.314
8.0	893.676
8.5	890.378
9.0	887.081
9.5	883.783
10.0	880.485
10.5	876.528
11.0	872.571
11.5	868.614
12.0	863.997
12.5	860.040
13.0	854.763
13.5	850.806
14.0	845.530
14.5	840.913
15.0	835.637
15.5	830.360
16.0	825.744
16.5	820.467
17.0	816.510
17.5	811.234
18.0	805.957
18.5	800.681
19.0	794.086
19.5	786.831
20.0	779.576
20.5	772.321
21.0	763.747
21.5	755.173
22.0	745.280
22.5	735.387
23.0	724.174
23.5	712.303
24.0	699.112
24.5	685.262
25.0	671.411
25.5	656.901
26.0	641.732
26.5	626.101

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-930-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	610.074
27.5	593.586
28.0	576.701
28.5	559.553
29.0	542.339
29.5	524.928
30.0	507.582
30.5	490.104
31.0	472.560
31.5	455.082
32.0	437.736
32.5	420.522
33.0	403.506
33.5	386.820
34.0	370.397
34.5	354.107
35.0	338.212
35.5	322.581
36.0	307.214
36.5	291.978
37.0	277.139
37.5	262.497
38.0	248.185
38.5	234.137
39.0	220.286
39.5	206.634
40.0	193.377
40.5	180.450
41.0	167.853
41.5	155.651
42.0	143.846
42.5	132.436
43.0	121.619
43.5	111.264
44.0	101.437
44.5	92.204
45.0	83.498
45.5	75.319
46.0	67.735
46.5	60.744
47.0	54.346
47.5	48.476
48.0	43.134
48.5	38.253
49.0	33.900
49.5	30.009
50.0	26.513
50.5	23.414
51.0	20.710
51.5	18.401
52.0	16.357
52.5	14.576
53.0	13.059
53.5	11.740
54.0	10.619
54.5	9.629

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-930-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	8.772
55.5	8.112
56.0	7.519
56.5	7.057
57.0	6.661
57.5	6.266
58.0	5.870
58.5	5.474
59.0	5.144
59.5	4.749
60.0	4.485
60.5	4.155
61.0	3.891
61.5	3.627
62.0	3.364
62.5	3.166
63.0	2.968
63.5	2.770
64.0	2.572
64.5	2.440
65.0	2.242
65.5	2.111
66.0	1.979
66.5	1.847
67.0	1.715
67.5	1.649
68.0	1.517
68.5	1.451
69.0	1.319
69.5	1.253
70.0	1.187
70.5	1.121
71.0	1.055
71.5	0.989
72.0	0.923
72.5	0.857
73.0	0.791
73.5	0.791
74.0	0.725
74.5	0.660
75.0	0.594
75.5	0.594
76.0	0.528
76.5	0.528
77.0	0.462
77.5	0.462
78.0	0.396
78.5	0.396
79.0	0.396
79.5	0.330
80.0	0.330
80.5	0.264
81.0	0.264
81.5	0.264
82.0	0.264
82.5	0.198

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-930-BL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	0.198
83.5	0.198
84.0	0.132
84.5	0.132
85.0	0.132
85.5	0.132
86.0	0.132
86.5	0.066
87.0	0.066
87.5	0.066
88.0	0.066
88.5	0.066
89.0	0.066
89.5	0.066
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-L30-930-BL-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-L30-930-BL-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-L30-930-BL-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-L30-930-BL-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	320.84	N.A.	35.00
0-30	623.25	N.A.	68.00
0-40	834.30	N.A.	91.00
0-60	913.81	N.A.	99.60
0-80	916.91	N.A.	100.00
0-90	917.07	N.A.	100.00
10-90	831.29	N.A.	90.60
20-40	513.47	N.A.	56.00
20-50	583.29	N.A.	63.60
40-70	81.91	N.A.	8.90
60-80	3.11	N.A.	0.30
70-80	0.70	N.A.	0.10
80-90	0.16	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	917.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.78
10-20	235.06
20-30	302.41
30-40	211.06
40-50	69.83
50-60	9.67
60-70	2.40
70-80	0.70
80-90	0.16
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-L30-930-BL-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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	69	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	59	54	51	59	54	50	58	53	50	49

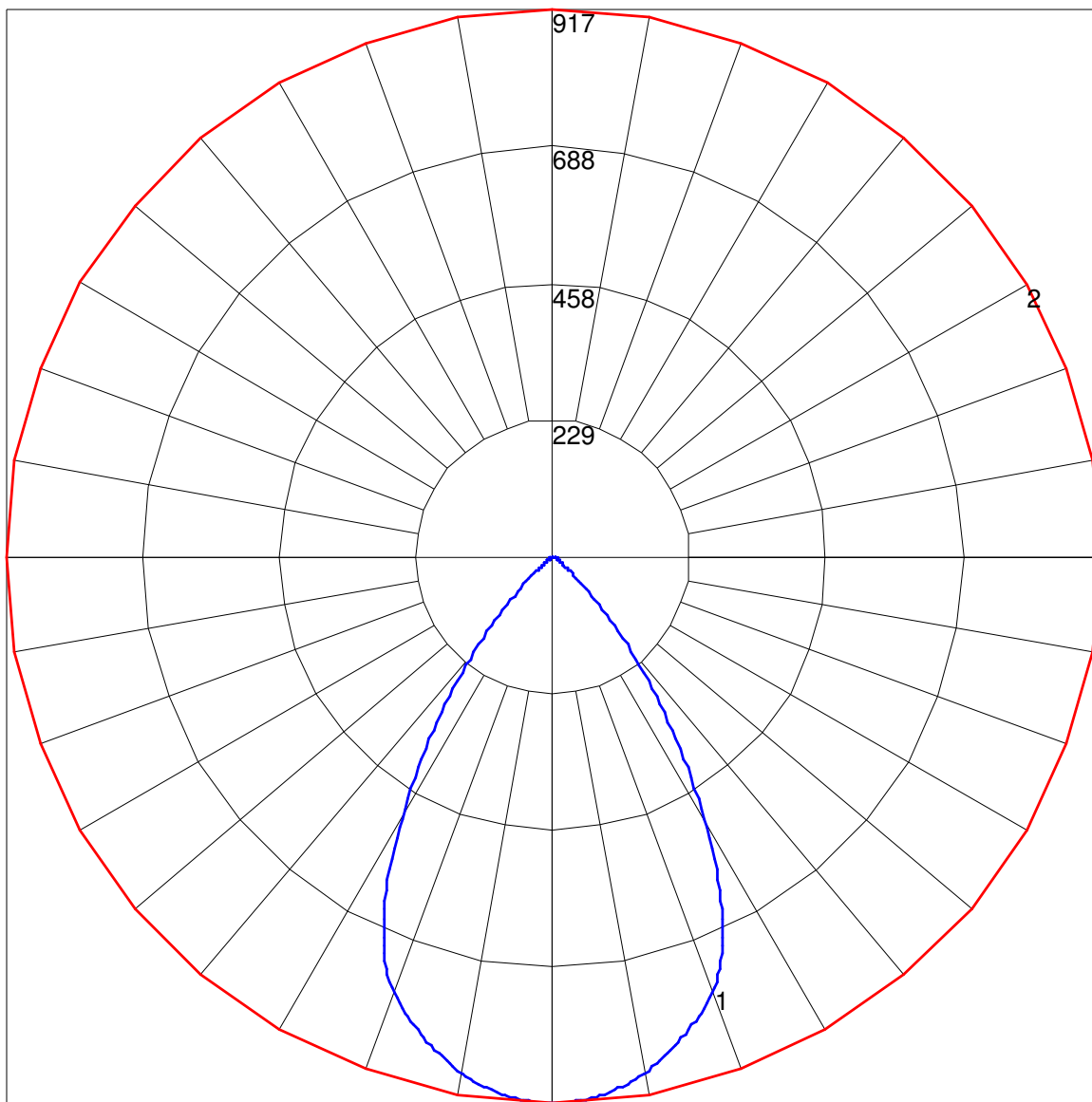
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L30-930-BL-DIM-UNV_.IES

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	0.0	0.4	0.0	0.7	1.0	0.0	0.4	0.0	0.7	1.0
	3H	0.0	0.4	0.0	0.8	1.1	0.0	0.4	0.0	0.8	1.1
	4H	0.0	0.3	0.0	0.7	1.1	0.0	0.3	0.0	0.7	1.1
	6H	0.0	0.2	0.0	0.6	1.0	0.0	0.2	0.0	0.6	1.0
	8H	0.0	0.1	0.0	0.5	0.9	0.0	0.1	0.0	0.5	0.9
	12H	0.0	0.1	0.0	0.4	0.9	0.0	0.1	0.0	0.4	0.9
4H	2H	0.0	0.1	0.0	0.5	0.9	0.0	0.1	0.0	0.5	0.9
	3H	0.0	0.2	0.0	0.6	1.0	0.0	0.2	0.0	0.6	1.0
	4H	0.0	0.1	0.0	0.6	1.0	0.0	0.1	0.0	0.6	1.0
	6H	0.0	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.5	1.0
	8H	0.0	0.0	0.0	0.4	0.9	0.0	0.0	0.0	0.4	0.9
	12H	0.0	0.0	0.0	0.3	0.8	0.0	0.0	0.0	0.3	0.8
8H	4H	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.4	0.8
	6H	0.0	0.0	0.0	0.3	0.8	0.0	0.0	0.0	0.3	0.8
	8H	0.0	0.0	0.0	0.3	0.8	0.0	0.0	0.0	0.3	0.8
	12H	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.2	0.7
12H	4H	0.0	0.0	0.0	0.3	0.7	0.0	0.0	0.0	0.3	0.7
	6H	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.2	0.7
	8H	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.2	0.7

Maximum UGR = 1.1

POLAR GRAPH



Maximum Candela = 916.76 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.)