

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-930-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-L30-930-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	2141
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
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	25816	25816	25816
55	19014	19014	19014
65	14288	14288	14288
75	10829	10829	10829
85	7898	7898	7898

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CANDELA TABULATION

	<u>0</u>
0.0	1508.874
0.5	1508.874
1.0	1508.121
1.5	1507.368
2.0	1505.863
2.5	1505.863
3.0	1503.606
3.5	1502.101
4.0	1499.090
4.5	1496.833
5.0	1494.575
5.5	1491.565
6.0	1487.802
6.5	1484.792
7.0	1481.029
7.5	1476.514
8.0	1471.998
8.5	1467.483
9.0	1462.968
9.5	1457.700
10.0	1452.432
10.5	1446.411
11.0	1440.391
11.5	1434.371
12.0	1428.350
12.5	1421.577
13.0	1414.804
13.5	1407.279
14.0	1400.506
14.5	1392.227
15.0	1385.454
15.5	1377.176
16.0	1368.898
16.5	1361.373
17.0	1352.342
17.5	1344.064
18.0	1335.033
18.5	1326.003
19.0	1316.972
19.5	1307.941
20.0	1297.405
20.5	1288.375
21.0	1278.592
21.5	1268.808
22.0	1258.273
22.5	1247.737
23.0	1236.448
23.5	1224.408
24.0	1211.614
24.5	1198.068
25.0	1183.770
25.5	1168.718
26.0	1151.410
26.5	1133.348

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CANDELA TABULATION - (Cont.)

27.0	1113.782
27.5	1093.463
28.0	1071.639
28.5	1049.062
29.0	1025.733
29.5	1000.899
30.0	976.064
30.5	952.735
31.0	927.148
31.5	902.314
32.0	876.727
32.5	850.388
33.0	824.048
33.5	798.461
34.0	772.874
34.5	747.287
35.0	722.152
35.5	697.468
36.0	673.311
36.5	649.305
37.0	625.900
37.5	602.722
38.0	580.070
38.5	557.794
39.0	535.895
39.5	514.673
40.0	493.977
40.5	473.884
41.0	454.619
41.5	436.181
42.0	418.571
42.5	401.940
43.0	386.211
43.5	371.461
44.0	357.765
44.5	345.047
45.0	333.307
45.5	322.395
46.0	312.461
46.5	303.129
47.0	294.625
47.5	286.799
48.0	279.349
48.5	272.500
49.0	265.878
49.5	259.556
50.0	253.536
50.5	247.591
51.0	241.796
51.5	236.077
52.0	230.508
52.5	225.165
53.0	219.821
53.5	214.629
54.0	209.436
54.5	204.244

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CANDELA TABULATION - (Cont.)

55.0	199.126
55.5	194.009
56.0	188.816
56.5	183.849
57.0	178.882
57.5	173.991
58.0	169.174
58.5	164.433
59.0	159.768
59.5	155.252
60.0	150.737
60.5	146.372
61.0	142.007
61.5	137.793
62.0	133.654
62.5	129.515
63.0	125.526
63.5	121.613
64.0	117.700
64.5	113.937
65.0	110.249
65.5	106.712
66.0	103.175
66.5	99.714
67.0	96.327
67.5	93.016
68.0	89.780
68.5	86.694
69.0	83.534
69.5	80.523
70.0	77.588
70.5	74.653
71.0	71.869
71.5	69.009
72.0	66.300
72.5	63.666
73.0	61.032
73.5	58.549
74.0	56.065
74.5	53.582
75.0	51.174
75.5	48.841
76.0	46.583
76.5	44.326
77.0	42.143
77.5	39.961
78.0	37.854
78.5	35.746
79.0	33.714
79.5	31.758
80.0	29.801
80.5	27.920
81.0	26.038
81.5	24.232
82.0	22.426
82.5	20.695

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CANDELA TABULATION - (Cont.)

83.0	18.964
83.5	17.309
84.0	15.653
84.5	14.073
85.0	12.568
85.5	11.063
86.0	9.557
86.5	8.128
87.0	6.698
87.5	5.343
88.0	3.989
88.5	2.709
89.0	1.580
89.5	0.828
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
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97.0	0.000
97.5	0.000
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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
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136.0	0.000
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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
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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
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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	530.63	N.A.	24.80
0-30	1066.28	N.A.	49.80
0-40	1516.8	N.A.	70.80
0-60	1961.68	N.A.	91.60
0-80	2126.8	N.A.	99.30
0-90	2141.2	N.A.	100.00
10-90	1999.89	N.A.	93.40
20-40	986.17	N.A.	46.10
20-50	1252.61	N.A.	58.50
40-70	555.16	N.A.	25.90
60-80	165.13	N.A.	7.70
70-80	54.84	N.A.	2.60
80-90	14.40	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	2141.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.30
10-20	389.32
20-30	535.65
30-40	450.52
40-50	266.44
50-60	178.44
60-70	110.28
70-80	54.84
80-90	14.40
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	43	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

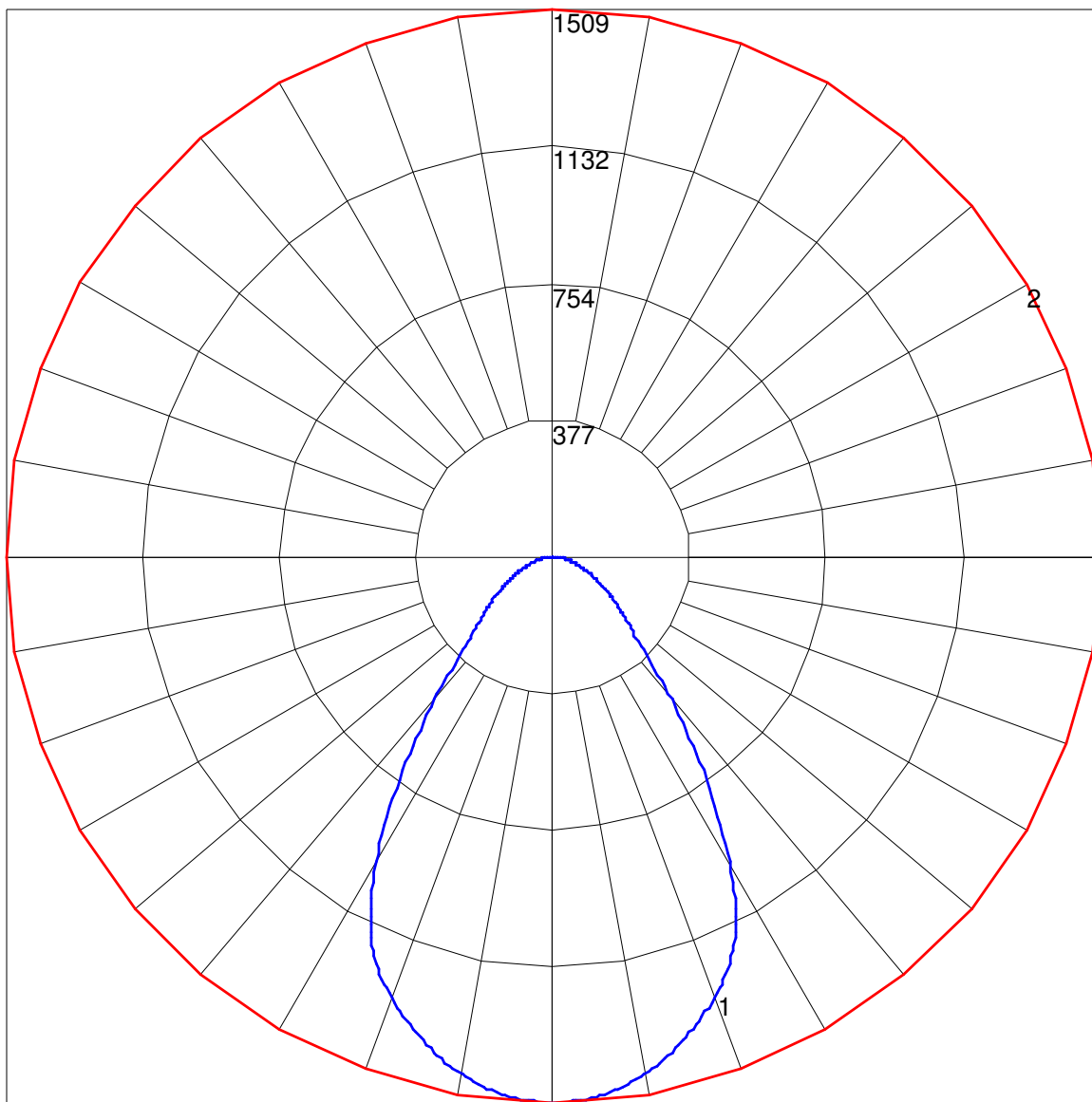
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.3	20.6	19.6	20.9	21.2	19.3	20.6	19.6	20.9	21.2
	3H	20.5	21.7	20.9	22.0	22.4	20.5	21.7	20.9	22.0	22.4
	4H	20.9	22.0	21.3	22.4	22.7	20.9	22.0	21.3	22.4	22.7
	6H	21.2	22.2	21.6	22.6	23.0	21.2	22.2	21.6	22.6	23.0
	8H	21.3	22.2	21.7	22.6	23.0	21.3	22.2	21.7	22.6	23.0
	12H	21.3	22.2	21.8	22.6	23.1	21.3	22.2	21.8	22.6	23.1
4H	2H	19.7	20.8	20.1	21.1	21.5	19.7	20.8	20.1	21.1	21.5
	3H	21.1	22.0	21.5	22.4	22.8	21.1	22.0	21.5	22.4	22.8
	4H	21.6	22.4	22.0	22.8	23.3	21.6	22.4	22.0	22.8	23.3
	6H	22.0	22.7	22.5	23.2	23.6	22.0	22.7	22.5	23.2	23.6
	8H	22.2	22.8	22.6	23.2	23.7	22.2	22.8	22.6	23.2	23.7
	12H	22.2	22.8	22.7	23.3	23.8	22.2	22.8	22.7	23.3	23.8
8H	4H	21.8	22.4	22.3	22.9	23.4	21.8	22.4	22.3	22.9	23.4
	6H	22.3	22.8	22.8	23.3	23.8	22.3	22.8	22.8	23.3	23.8
	8H	22.5	22.9	23.0	23.5	23.9	22.5	22.9	23.0	23.5	23.9
	12H	22.6	23.0	23.1	23.5	24.1	22.6	23.0	23.1	23.5	24.1
12H	4H	21.8	22.4	22.3	22.8	23.3	21.8	22.4	22.3	22.8	23.3
	6H	22.3	22.8	22.8	23.3	23.8	22.3	22.8	22.8	23.3	23.8
	8H	22.5	22.9	23.0	23.4	24.0	22.5	22.9	23.0	23.4	24.0

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 1508.874 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.)