

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L30-935-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-L30-935-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	2167
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	26131	26131	26131
55	19246	19246	19246
65	14462	14462	14462
75	10961	10961	10961
85	7994	7994	7994

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CANDELA TABULATION

	<u>0</u>
0.0	1527.274
0.5	1527.274
1.0	1526.513
1.5	1525.751
2.0	1524.227
2.5	1524.227
3.0	1521.942
3.5	1520.419
4.0	1517.372
4.5	1515.087
5.0	1512.801
5.5	1509.755
6.0	1505.946
6.5	1502.899
7.0	1499.090
7.5	1494.520
8.0	1489.950
8.5	1485.379
9.0	1480.809
9.5	1475.477
10.0	1470.144
10.5	1464.051
11.0	1457.957
11.5	1451.863
12.0	1445.769
12.5	1438.913
13.0	1432.058
13.5	1424.440
14.0	1417.585
14.5	1409.206
15.0	1402.350
15.5	1393.971
16.0	1385.592
16.5	1377.975
17.0	1368.834
17.5	1360.455
18.0	1351.314
18.5	1342.173
19.0	1333.033
19.5	1323.892
20.0	1313.227
20.5	1304.087
21.0	1294.184
21.5	1284.282
22.0	1273.617
22.5	1262.953
23.0	1251.527
23.5	1239.339
24.0	1226.390
24.5	1212.679
25.0	1198.206
25.5	1182.971
26.0	1165.451
26.5	1147.170

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CANDELA TABULATION - (Cont.)

27.0	1127.365
27.5	1106.798
28.0	1084.708
28.5	1061.856
29.0	1038.242
29.5	1013.105
30.0	987.968
30.5	964.354
31.0	938.455
31.5	913.318
32.0	887.419
32.5	860.758
33.0	834.097
33.5	808.199
34.0	782.300
34.5	756.401
35.0	730.959
35.5	705.974
36.0	681.522
36.5	657.223
37.0	633.533
37.5	610.072
38.0	587.144
38.5	564.596
39.0	542.430
39.5	520.949
40.0	500.001
40.5	479.663
41.0	460.163
41.5	441.500
42.0	423.676
42.5	406.842
43.0	390.921
43.5	375.991
44.0	362.128
44.5	349.255
45.0	337.371
45.5	326.326
46.0	316.271
46.5	306.826
47.0	298.218
47.5	290.296
48.0	282.755
48.5	275.823
49.0	269.120
49.5	262.722
50.0	256.628
50.5	250.610
51.0	244.745
51.5	238.956
52.0	233.319
52.5	227.910
53.0	222.502
53.5	217.246
54.0	211.990
54.5	206.734

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CANDELA TABULATION - (Cont.)

55.0	201.555
55.5	196.375
56.0	191.119
56.5	186.091
57.0	181.064
57.5	176.113
58.0	171.238
58.5	166.439
59.0	161.716
59.5	157.145
60.0	152.575
60.5	148.157
61.0	143.739
61.5	139.473
62.0	135.284
62.5	131.094
63.0	127.057
63.5	123.096
64.0	119.135
64.5	115.326
65.0	111.594
65.5	108.014
66.0	104.434
66.5	100.930
67.0	97.502
67.5	94.150
68.0	90.875
68.5	87.752
69.0	84.552
69.5	81.505
70.0	78.535
70.5	75.564
71.0	72.745
71.5	69.851
72.0	67.109
72.5	64.443
73.0	61.777
73.5	59.263
74.0	56.749
74.5	54.235
75.0	51.798
75.5	49.436
76.0	47.151
76.5	44.866
77.0	42.657
77.5	40.448
78.0	38.315
78.5	36.182
79.0	34.126
79.5	32.145
80.0	30.165
80.5	28.260
81.0	26.356
81.5	24.528
82.0	22.700
82.5	20.948

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CANDELA TABULATION - (Cont.)

83.0	19.196
83.5	17.520
84.0	15.844
84.5	14.244
85.0	12.721
85.5	11.197
86.0	9.674
86.5	8.227
87.0	6.779
87.5	5.408
88.0	4.037
88.5	2.742
89.0	1.600
89.5	0.838
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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100.5	0.000
101.0	0.000
101.5	0.000
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102.5	0.000
103.0	0.000
103.5	0.000
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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
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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
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146.5	0.000
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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
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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	537.10	N.A.	24.80
0-30	1079.28	N.A.	49.80
0-40	1535.29	N.A.	70.80
0-60	1985.6	N.A.	91.60
0-80	2152.74	N.A.	99.30
0-90	2167.31	N.A.	100.00
10-90	2024.28	N.A.	93.40
20-40	998.20	N.A.	46.10
20-50	1267.89	N.A.	58.50
40-70	561.94	N.A.	25.90
60-80	167.14	N.A.	7.70
70-80	55.51	N.A.	2.60
80-90	14.57	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	2167.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.03
10-20	394.07
20-30	542.18
30-40	456.01
40-50	269.69
50-60	180.61
60-70	111.63
70-80	55.51
80-90	14.57
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	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

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UGR TABLE - CORRECTED

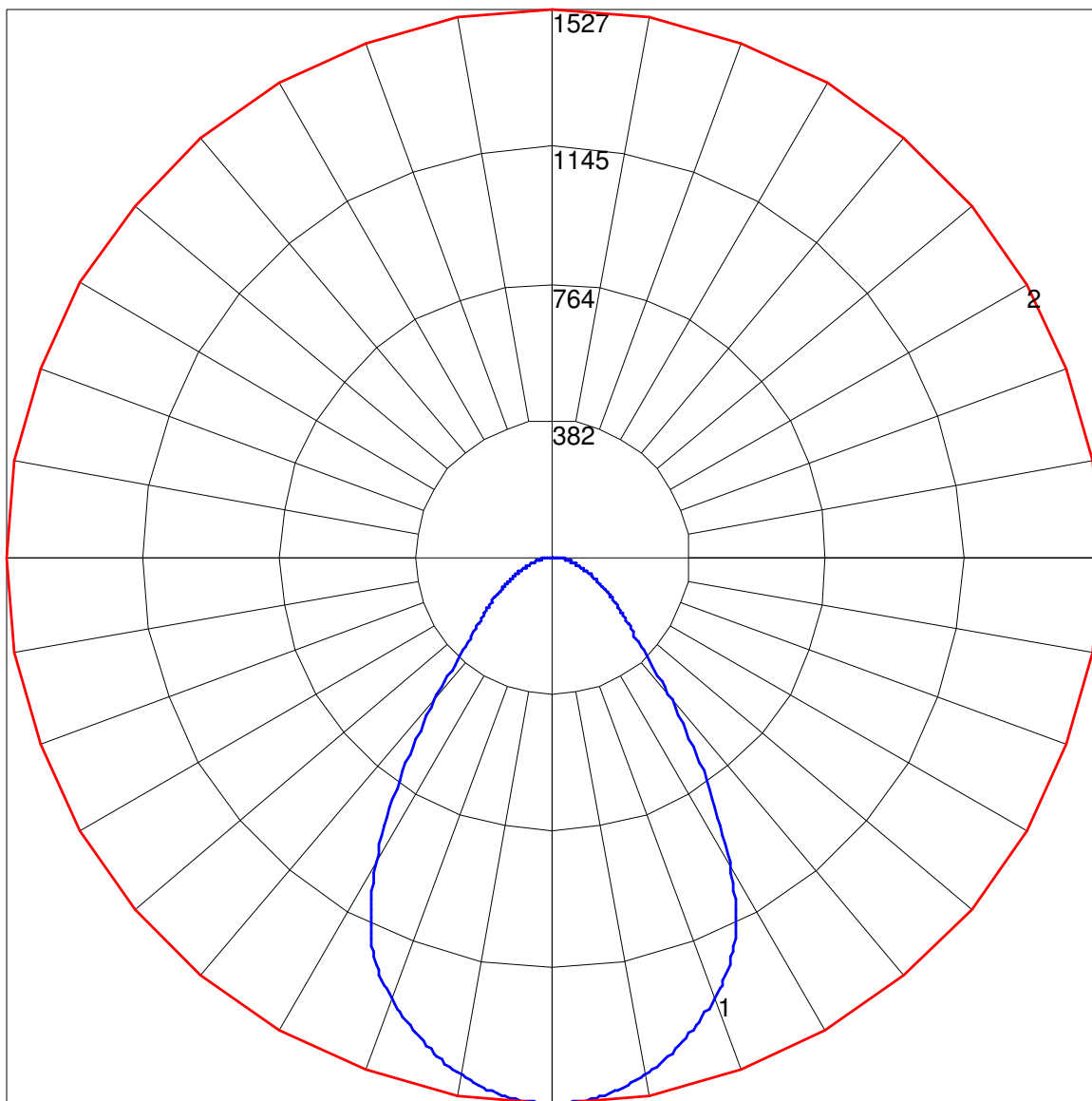
Reflectances

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 = 1527.274 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.)