

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4LDR-L30-940-WH-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.02
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-10
[TEST DATE] 11/11/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 4LDR-L30-940-WH-DIM-UNV
[LUMINAIRE] 4" 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	2203
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.38 ft (Diameter)
Luminous Width (90-270)	0.38 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	52656	52656	52656
55	35395	35395	35395
65	26661	26661	26661
75	20244	20244	20244
85	14808	14808	14808

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CANDELA TABULATION

	<u>0</u>
0.0	1502.480
0.5	1503.274
1.0	1502.480
1.5	1501.686
2.0	1500.893
2.5	1500.099
3.0	1498.512
3.5	1496.924
4.0	1495.337
4.5	1492.956
5.0	1491.368
5.5	1488.193
6.0	1486.606
6.5	1482.638
7.0	1479.463
7.5	1475.494
8.0	1472.319
8.5	1468.351
9.0	1463.589
9.5	1458.826
10.0	1454.858
10.5	1450.096
11.0	1445.334
11.5	1439.778
12.0	1433.428
12.5	1427.872
13.0	1422.316
13.5	1415.173
14.0	1408.823
14.5	1402.474
15.0	1395.330
15.5	1388.187
16.0	1380.250
16.5	1373.107
17.0	1365.170
17.5	1356.439
18.0	1348.502
18.5	1339.771
19.0	1330.247
19.5	1320.722
20.0	1310.404
20.5	1300.086
21.0	1288.974
21.5	1276.275
22.0	1263.575
22.5	1250.083
23.0	1235.796
23.5	1219.922
24.0	1202.460
24.5	1185.793
25.0	1166.744
25.5	1147.695
26.0	1129.440
26.5	1108.803

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CANDELA TABULATION - (Cont.)

27.0	1088.167
27.5	1065.943
28.0	1044.513
28.5	1023.083
29.0	1001.653
29.5	981.811
30.0	961.175
30.5	938.951
31.0	916.727
31.5	893.710
32.0	871.486
32.5	849.262
33.0	827.039
33.5	805.609
34.0	783.703
34.5	762.352
35.0	741.319
35.5	720.444
36.0	699.887
36.5	679.489
37.0	659.409
37.5	639.645
38.0	620.200
38.5	600.754
39.0	581.784
39.5	562.974
40.0	544.560
40.5	526.305
41.0	508.526
41.5	490.985
42.0	474.079
42.5	457.411
43.0	441.378
43.5	425.822
44.0	410.741
44.5	396.296
45.0	382.406
45.5	369.072
46.0	356.373
46.5	344.308
47.0	332.800
47.5	321.926
48.0	311.608
48.5	301.766
49.0	292.480
49.5	283.590
50.0	275.256
50.5	267.240
51.0	259.700
51.5	252.477
52.0	245.572
52.5	238.905
53.0	232.476
53.5	226.205
54.0	220.173
54.5	214.300

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CANDELA TABULATION - (Cont.)

55.0	208.506
55.5	203.029
56.0	197.791
56.5	192.632
57.0	187.473
57.5	182.393
58.0	177.313
58.5	172.234
59.0	167.313
59.5	162.550
60.0	157.788
60.5	153.185
61.0	148.581
61.5	144.216
62.0	139.851
62.5	135.644
63.0	131.517
63.5	127.469
64.0	123.341
64.5	119.532
65.0	115.722
65.5	111.992
66.0	108.261
66.5	104.689
67.0	101.197
67.5	97.784
68.0	94.451
68.5	91.117
69.0	87.863
69.5	84.688
70.0	81.593
70.5	78.577
71.0	75.561
71.5	72.624
72.0	69.767
72.5	66.989
73.0	64.211
73.5	61.591
74.0	58.972
74.5	56.353
75.0	53.813
75.5	51.353
76.0	48.971
76.5	46.590
77.0	44.289
77.5	41.987
78.0	39.844
78.5	37.622
79.0	35.479
79.5	33.415
80.0	31.351
80.5	29.367
81.0	27.383
81.5	25.478
82.0	23.652
82.5	21.827

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CANDELA TABULATION - (Cont.)

83.0	20.001
83.5	18.255
84.0	16.588
84.5	14.842
85.0	13.255
85.5	11.667
86.0	10.080
86.5	8.572
87.0	7.064
87.5	5.635
88.0	4.286
88.5	2.937
89.0	1.746
89.5	0.794
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

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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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135.5	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
144.5	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
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	533.35	N.A.	24.20
0-30	1063.18	N.A.	48.30
0-40	1525.97	N.A.	69.30
0-60	2014.89	N.A.	91.40
0-80	2188.24	N.A.	99.30
0-90	2203.42	N.A.	100.00
10-90	2062.25	N.A.	93.60
20-40	992.62	N.A.	45.00
20-50	1293.08	N.A.	58.70
40-70	604.58	N.A.	27.40
60-80	173.35	N.A.	7.90
70-80	57.69	N.A.	2.60
80-90	15.18	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	2203.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.17
10-20	392.18
20-30	529.83
30-40	462.80
40-50	300.45
50-60	188.46
60-70	115.66
70-80	57.69
80-90	15.18
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	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	74	79	75	72	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37

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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

X=2H	Y=2H	21.5	22.8	21.8	23.1	23.4	21.5	22.8	21.8	23.1	23.4
	3H	22.7	23.9	23.1	24.2	24.6	22.7	23.9	23.1	24.2	24.6
	4H	23.1	24.2	23.5	24.6	25.0	23.1	24.2	23.5	24.6	25.0
	6H	23.4	24.4	23.8	24.8	25.2	23.4	24.4	23.8	24.8	25.2
	8H	23.5	24.5	24.0	24.9	25.3	23.5	24.5	24.0	24.9	25.3
	12H	23.6	24.5	24.0	24.9	25.3	23.6	24.5	24.0	24.9	25.3

UGR Viewed Endwise

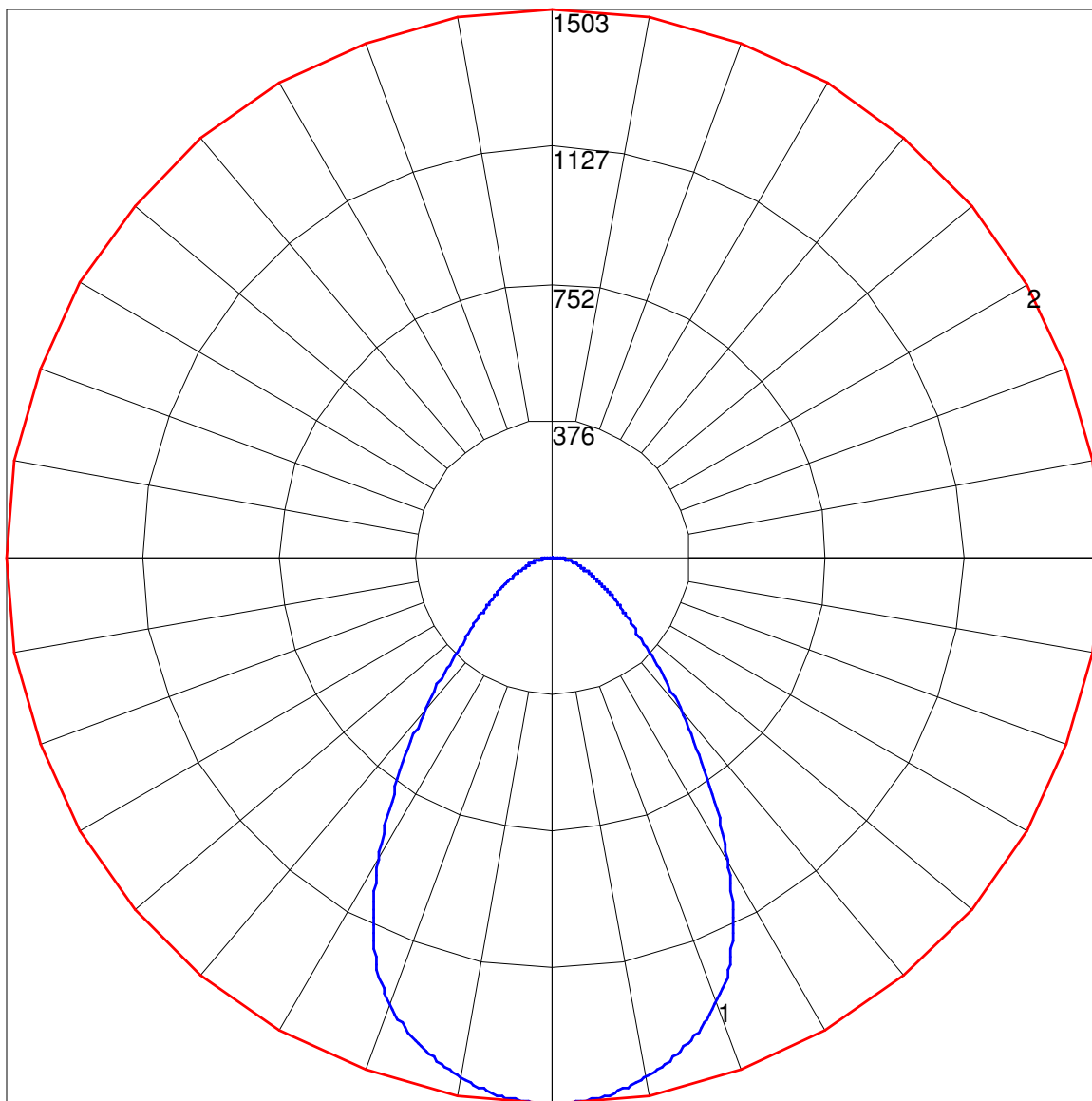
4H	2H	21.9	23.0	22.3	23.3	23.7	21.9	23.0	22.3	23.3	23.7
	3H	23.3	24.2	23.7	24.6	25.0	23.3	24.2	23.7	24.6	25.0
	4H	23.9	24.7	24.3	25.1	25.5	23.9	24.7	24.3	25.1	25.5
	6H	24.3	25.0	24.7	25.4	25.9	24.3	25.0	24.7	25.4	25.9
	8H	24.4	25.0	24.8	25.5	25.9	24.4	25.0	24.8	25.5	25.9
	12H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	25.0	25.5	26.0

8H	4H	24.0	24.7	24.5	25.1	25.6	24.0	24.7	24.5	25.1	25.6
	6H	24.5	25.1	25.0	25.6	26.0	24.5	25.1	25.0	25.6	26.0
	8H	24.7	25.2	25.2	25.7	26.2	24.7	25.2	25.2	25.7	26.2
	12H	24.8	25.3	25.4	25.8	26.3	24.8	25.3	25.4	25.8	26.3

12H	4H	24.0	24.6	24.5	25.1	25.5	24.0	24.6	24.5	25.1	25.5
	6H	24.5	25.0	25.1	25.5	26.0	24.5	25.0	25.1	25.5	26.0
	8H	24.8	25.2	25.3	25.7	26.3	24.8	25.2	25.3	25.7	26.3

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 1503.274 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)