

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-930-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-L15-930-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	468
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	34
Total Luminaire Watts	13.8
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	3297	3297	3297
55	427	427	427
65	148	148	148
75	64	64	64
85	42	42	42

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CANDELA TABULATION

	<u>0</u>
0.0	467.400
0.5	467.400
1.0	467.400
1.5	467.064
2.0	466.728
2.5	466.391
3.0	466.055
3.5	465.046
4.0	464.374
4.5	463.701
5.0	462.692
5.5	462.020
6.0	460.675
6.5	459.666
7.0	458.321
7.5	456.976
8.0	455.631
8.5	453.950
9.0	452.268
9.5	450.587
10.0	448.906
10.5	446.888
11.0	444.871
11.5	442.853
12.0	440.499
12.5	438.482
13.0	435.792
13.5	433.774
14.0	431.084
14.5	428.730
15.0	426.040
15.5	423.350
16.0	420.996
16.5	418.306
17.0	416.289
17.5	413.599
18.0	410.909
18.5	408.218
19.0	404.856
19.5	401.157
20.0	397.458
20.5	393.759
21.0	389.388
21.5	385.017
22.0	379.973
22.5	374.929
23.0	369.212
23.5	363.160
24.0	356.435
24.5	349.373
25.0	342.312
25.5	334.914
26.0	327.180
26.5	319.211

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CANDELA TABULATION - (Cont.)

27.0	311.040
27.5	302.633
28.0	294.025
28.5	285.282
29.0	276.506
29.5	267.629
30.0	258.785
30.5	249.874
31.0	240.930
31.5	232.019
32.0	223.175
32.5	214.399
33.0	205.723
33.5	197.216
34.0	188.843
34.5	180.537
35.0	172.434
35.5	164.464
36.0	156.629
36.5	148.862
37.0	141.296
37.5	133.831
38.0	126.534
38.5	119.372
39.0	112.311
39.5	105.350
40.0	98.591
40.5	92.000
41.0	85.578
41.5	79.357
42.0	73.338
42.5	67.521
43.0	62.006
43.5	56.727
44.0	51.717
44.5	47.009
45.0	42.570
45.5	38.401
46.0	34.534
46.5	30.969
47.0	27.708
47.5	24.715
48.0	21.991
48.5	19.503
49.0	17.284
49.5	15.300
50.0	13.518
50.5	11.937
51.0	10.559
51.5	9.382
52.0	8.339
52.5	7.431
53.0	6.658
53.5	5.985
54.0	5.414
54.5	4.909

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CANDELA TABULATION - (Cont.)

55.0	4.472
55.5	4.136
56.0	3.833
56.5	3.598
57.0	3.396
57.5	3.194
58.0	2.993
58.5	2.791
59.0	2.623
59.5	2.421
60.0	2.287
60.5	2.118
61.0	1.984
61.5	1.849
62.0	1.715
62.5	1.614
63.0	1.513
63.5	1.412
64.0	1.311
64.5	1.244
65.0	1.143
65.5	1.076
66.0	1.009
66.5	0.942
67.0	0.874
67.5	0.841
68.0	0.773
68.5	0.740
69.0	0.673
69.5	0.639
70.0	0.605
70.5	0.572
71.0	0.538
71.5	0.504
72.0	0.471
72.5	0.437
73.0	0.404
73.5	0.404
74.0	0.370
74.5	0.336
75.0	0.303
75.5	0.303
76.0	0.269
76.5	0.269
77.0	0.235
77.5	0.235
78.0	0.202
78.5	0.202
79.0	0.202
79.5	0.168
80.0	0.168
80.5	0.135
81.0	0.135
81.5	0.135
82.0	0.135
82.5	0.101

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CANDELA TABULATION - (Cont.)

83.0	0.101
83.5	0.101
84.0	0.067
84.5	0.067
85.0	0.067
85.5	0.067
86.0	0.067
86.5	0.034
87.0	0.034
87.5	0.034
88.0	0.034
88.5	0.034
89.0	0.034
89.5	0.034
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
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

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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
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

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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	163.58	N.A.	35.00
0-30	317.76	N.A.	68.00
0-40	425.36	N.A.	91.00
0-60	465.89	N.A.	99.60
0-80	467.48	N.A.	100.00
0-90	467.56	N.A.	100.00
10-90	423.83	N.A.	90.60
20-40	261.78	N.A.	56.00
20-50	297.39	N.A.	63.60
40-70	41.76	N.A.	8.90
60-80	1.58	N.A.	0.30
70-80	0.36	N.A.	0.10
80-90	0.08	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	467.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.73
10-20	119.84
20-30	154.18
30-40	107.60
40-50	35.60
50-60	4.93
60-70	1.23
70-80	0.36
80-90	0.08
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

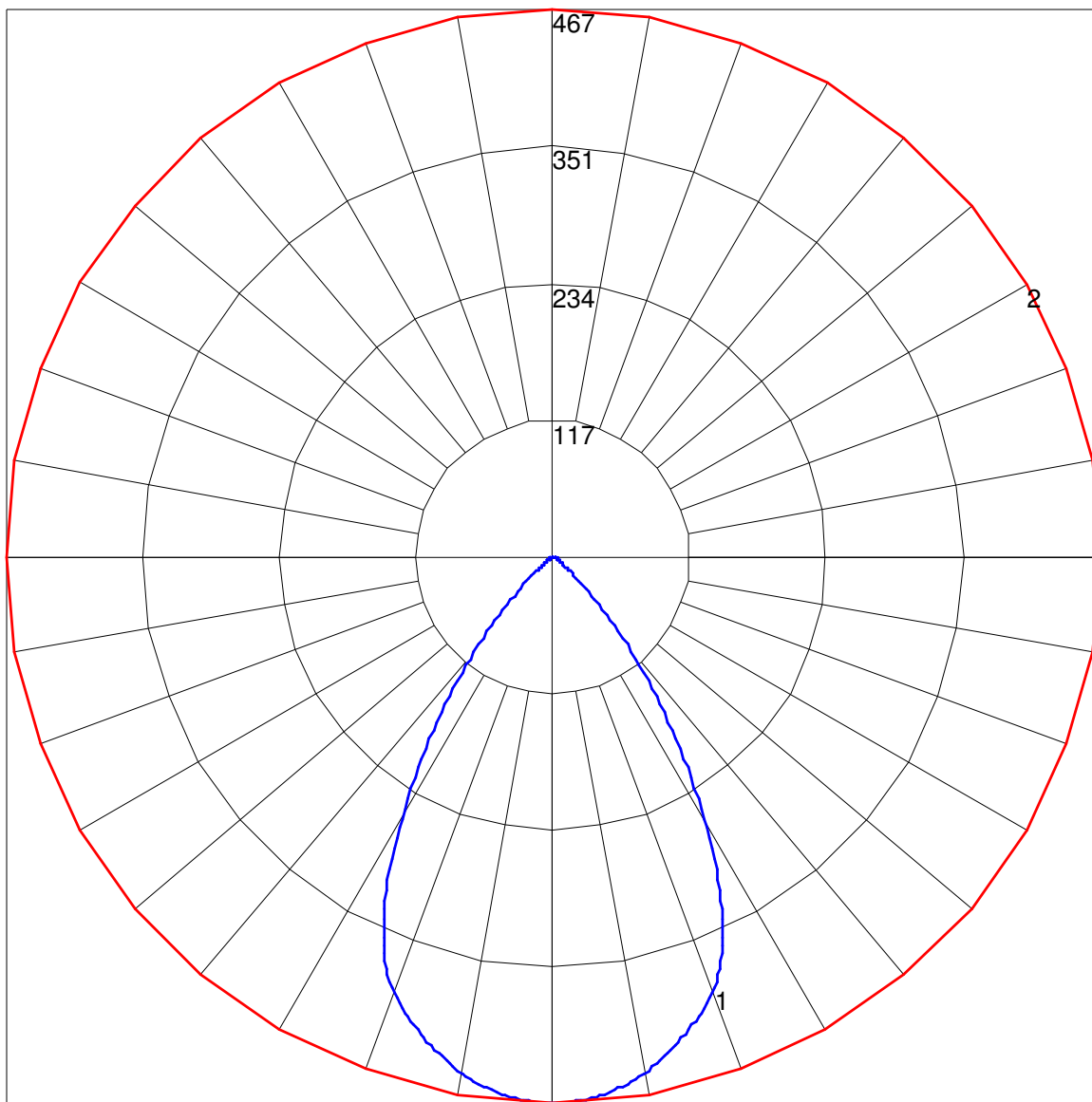
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	98	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	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	78	84	80	77	82	78	76	74
5	92	83	77	73	90	82	76	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	68	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

POLAR GRAPH



Maximum Candela = 467.4 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.)