

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L14-830-DIM-UNV-RW-OF-BL_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.03
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L14-830-DIM-UNV-RW-OF-BL_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Downlight
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	17.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 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	37969	37969	37969
55	30045	30045	30045
65	22459	22459	22459
75	11694	11694	11694
85	7088	7088	7088

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CANDELA TABULATION

	<u>0</u>
0.0	1262.079
0.5	1262.079
1.0	1261.429
1.5	1260.778
2.0	1260.778
2.5	1259.477
3.0	1257.525
3.5	1254.923
4.0	1252.321
4.5	1249.719
5.0	1245.815
5.5	1242.563
6.0	1238.659
6.5	1234.105
7.0	1229.551
7.5	1224.998
8.0	1220.444
8.5	1215.239
9.0	1209.384
9.5	1204.180
10.0	1198.325
10.5	1191.819
11.0	1184.663
11.5	1177.507
12.0	1169.700
12.5	1161.894
13.0	1153.436
13.5	1144.329
14.0	1134.570
14.5	1124.812
15.0	1113.752
15.5	1102.693
16.0	1090.332
16.5	1077.972
17.0	1064.961
17.5	1051.299
18.0	1036.987
18.5	1021.373
19.0	1005.110
19.5	987.545
20.0	969.329
20.5	950.463
21.0	930.296
21.5	909.478
22.0	886.708
22.5	863.939
23.0	839.868
23.5	815.147
24.0	789.125
24.5	763.103
25.0	736.430
25.5	708.456
26.0	679.831
26.5	651.207

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CANDELA TABULATION - (Cont.)

27.0	622.778
27.5	594.218
28.0	565.399
28.5	536.709
29.0	507.369
29.5	477.834
30.0	448.559
30.5	419.739
31.0	391.310
31.5	363.856
32.0	337.444
32.5	312.462
33.0	289.302
33.5	267.834
34.0	247.862
34.5	229.581
35.0	212.992
35.5	197.769
36.0	183.977
36.5	171.617
37.0	160.622
37.5	150.799
38.0	141.886
38.5	133.950
39.0	126.989
39.5	120.873
40.0	115.409
40.5	110.660
41.0	106.431
41.5	102.658
42.0	99.275
42.5	96.282
43.0	93.550
43.5	91.143
44.0	88.866
44.5	86.784
45.0	84.833
45.5	82.946
46.0	81.189
46.5	79.433
47.0	77.807
47.5	76.180
48.0	74.554
48.5	72.992
49.0	71.431
49.5	69.870
50.0	68.373
50.5	66.942
51.0	65.446
51.5	64.015
52.0	62.649
52.5	61.217
53.0	59.851
53.5	58.485
54.0	57.119
54.5	55.753

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55.0	54.452
55.5	53.150
56.0	51.849
56.5	50.548
57.0	49.247
57.5	48.011
58.0	46.710
58.5	45.474
59.0	44.238
59.5	43.067
60.0	41.831
60.5	40.595
61.0	39.359
61.5	38.188
62.0	36.952
62.5	35.781
63.0	34.610
63.5	33.439
64.0	32.268
64.5	31.097
65.0	29.991
65.5	28.885
66.0	27.779
66.5	26.608
67.0	25.567
67.5	24.526
68.0	23.420
68.5	22.379
69.0	21.338
69.5	20.297
70.0	19.322
70.5	18.281
71.0	17.305
71.5	16.264
72.0	15.288
72.5	14.312
73.0	13.336
73.5	12.361
74.0	11.450
74.5	10.474
75.0	9.563
75.5	8.717
76.0	7.872
76.5	7.221
77.0	6.636
77.5	6.115
78.0	5.725
78.5	5.400
79.0	5.139
79.5	4.879
80.0	4.554
80.5	4.294
81.0	4.033
81.5	3.773
82.0	3.448
82.5	3.188

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CANDELA TABULATION - (Cont.)

83.0	2.993
83.5	2.732
84.0	2.472
84.5	2.212
85.0	1.952
85.5	1.757
86.0	1.496
86.5	1.301
87.0	1.041
87.5	0.846
88.0	0.651
88.5	0.455
89.0	0.260
89.5	0.195
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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Zone	Lumens	%Lamp	%Fixt
0-20	426.87	N.A.	40.30
0-30	755.68	N.A.	71.40
0-40	900.35	N.A.	85.00
0-60	1015.99	N.A.	95.90
0-80	1056.75	N.A.	99.80
0-90	1059.01	N.A.	100.00
10-90	941.61	N.A.	88.90
20-40	473.48	N.A.	44.70
20-50	540.32	N.A.	51.00
40-70	145.45	N.A.	13.70
60-80	40.76	N.A.	3.80
70-80	10.95	N.A.	1.00
80-90	2.25	N.A.	0.20
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	1059.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.39
10-20	309.48
20-30	328.80
30-40	144.67
40-50	66.84
50-60	48.80
60-70	29.81
70-80	10.95
80-90	2.25
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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	81	72	66	62	71	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	75	65	59	55	73	64	58	55	63	58	54	62	58	54	61	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

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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

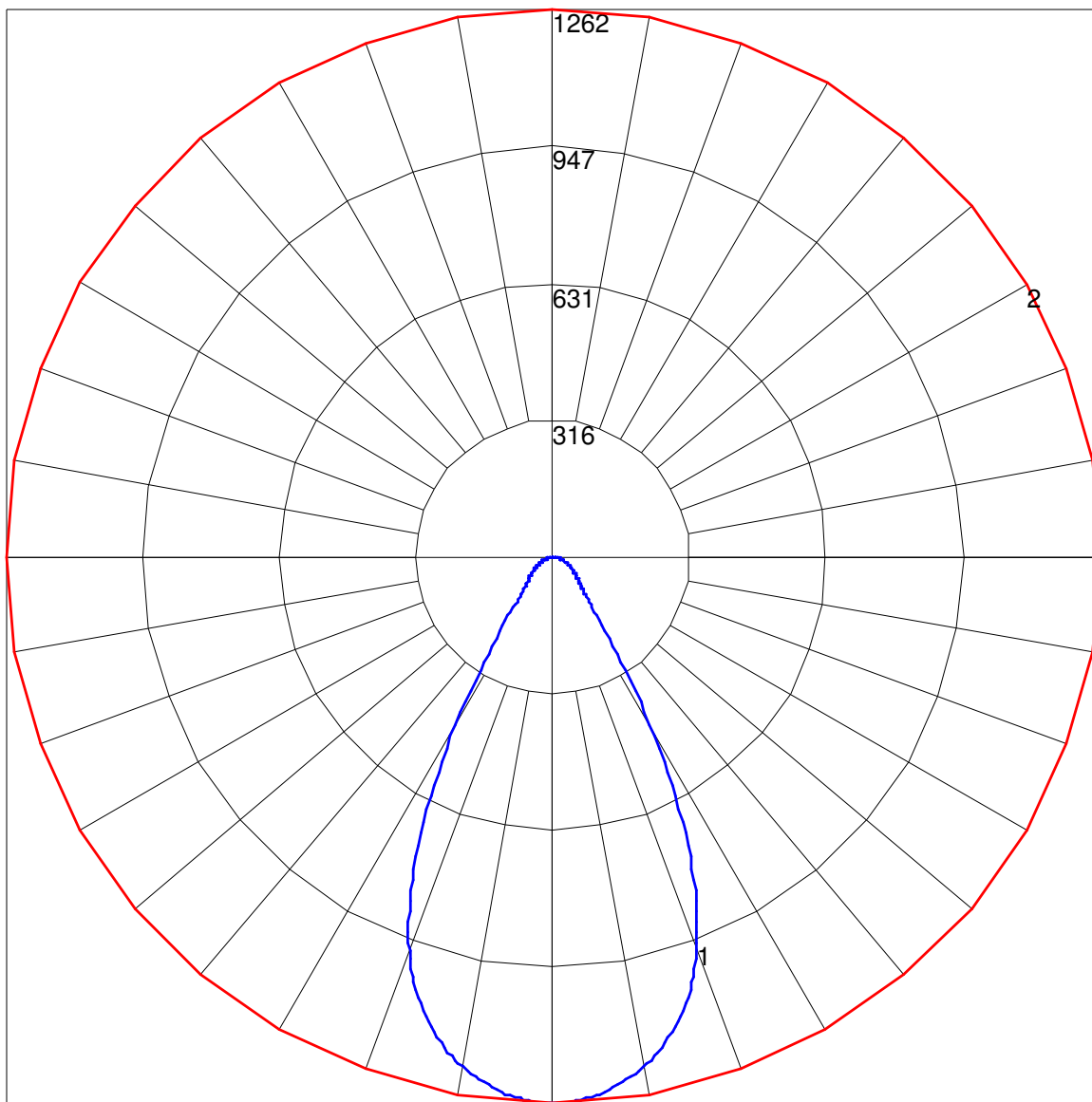
X=2H	Y=2H	19.1	20.2	19.5	20.5	20.8	19.1	20.2	19.5	20.5	20.8
	3H	20.1	21.1	20.5	21.4	21.8	20.1	21.1	20.5	21.4	21.8
	4H	20.3	21.2	20.7	21.6	22.0	20.3	21.2	20.7	21.6	22.0
	6H	20.3	21.2	20.8	21.6	21.9	20.3	21.2	20.8	21.6	21.9
	8H	20.3	21.1	20.8	21.5	21.9	20.3	21.1	20.8	21.5	21.9
	12H	20.3	21.1	20.8	21.5	21.9	20.3	21.1	20.8	21.5	21.9

UGR Viewed Endwise

4H	2H	19.4	20.3	19.8	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	3H	20.6	21.3	21.0	21.8	22.2	20.6	21.3	21.0	21.8	22.2
	4H	20.8	21.5	21.3	21.9	22.4	20.8	21.5	21.3	21.9	22.4
	6H	20.9	21.5	21.4	21.9	22.4	20.9	21.5	21.4	21.9	22.4
	8H	20.9	21.4	21.4	21.9	22.4	20.9	21.4	21.4	21.9	22.4
	12H	20.9	21.4	21.4	21.9	22.3	20.9	21.4	21.4	21.9	22.3
8H	4H	20.8	21.4	21.3	21.8	22.3	20.8	21.4	21.3	21.8	22.3
	6H	21.0	21.4	21.5	21.9	22.4	21.0	21.4	21.5	21.9	22.4
	8H	21.0	21.4	21.5	21.9	22.4	21.0	21.4	21.5	21.9	22.4
	12H	21.0	21.3	21.5	21.8	22.4	21.0	21.3	21.5	21.8	22.4
12H	4H	20.8	21.2	21.3	21.7	22.2	20.8	21.2	21.3	21.7	22.2
	6H	20.9	21.3	21.5	21.8	22.3	20.9	21.3	21.5	21.8	22.3
	8H	21.0	21.3	21.5	21.8	22.4	21.0	21.3	21.5	21.8	22.4

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1262.079 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.)