

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-927-DIM-UNV-LW-OF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L5-927-DIM-UNV-LW-OF_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector method of absolute photometry.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight, Vandal-Resistant
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	6.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
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	15831	15831	15831
55	13826	13826	13826
65	11811	11811	11811
75	9529	9529	9529
85	5338	5338	5338

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CANDELA TABULATION

	<u>0</u>
0.0	452.861
0.5	452.627
1.0	452.627
1.5	452.394
2.0	452.161
2.5	451.461
3.0	450.761
3.5	450.061
4.0	449.128
4.5	447.961
5.0	446.795
5.5	445.628
6.0	444.461
6.5	443.062
7.0	441.662
7.5	440.262
8.0	438.629
8.5	436.995
9.0	435.129
9.5	433.262
10.0	431.163
10.5	428.829
11.0	426.496
11.5	423.930
12.0	421.363
12.5	418.330
13.0	415.297
13.5	412.031
14.0	408.531
14.5	404.798
15.0	400.832
15.5	396.399
16.0	391.966
16.5	387.066
17.0	381.700
17.5	376.334
18.0	370.268
18.5	363.968
19.0	356.969
19.5	349.503
20.0	341.804
20.5	333.404
21.0	324.772
21.5	315.439
22.0	305.640
22.5	295.608
23.0	285.109
23.5	274.376
24.0	263.410
24.5	252.211
25.0	240.779
25.5	229.463
26.0	218.008
26.5	206.669

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CANDELA TABULATION - (Cont.)

27.0	195.493
27.5	184.551
28.0	173.842
28.5	163.389
29.0	153.263
29.5	143.394
30.0	134.132
30.5	125.382
31.0	117.123
31.5	109.424
32.0	102.214
32.5	95.518
33.0	89.382
33.5	83.759
34.0	78.650
34.5	73.984
35.0	69.737
35.5	65.888
36.0	62.411
36.5	59.308
37.0	56.508
37.5	54.012
38.0	51.772
38.5	49.742
39.0	47.923
39.5	46.289
40.0	44.796
40.5	43.466
41.0	42.253
41.5	41.133
42.0	40.107
42.5	39.150
43.0	38.287
43.5	37.493
44.0	36.747
44.5	36.047
45.0	35.370
45.5	34.740
46.0	34.134
46.5	33.550
47.0	32.990
47.5	32.431
48.0	31.894
48.5	31.357
49.0	30.821
49.5	30.307
50.0	29.817
50.5	29.327
51.0	28.814
51.5	28.348
52.0	27.858
52.5	27.391
53.0	26.924
53.5	26.458
54.0	25.991
54.5	25.524

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CANDELA TABULATION - (Cont.)

55.0	25.058
55.5	24.591
56.0	24.148
56.5	23.658
57.0	23.215
57.5	22.748
58.0	22.281
58.5	21.815
59.0	21.348
59.5	20.882
60.0	20.415
60.5	19.948
61.0	19.482
61.5	18.992
62.0	18.548
62.5	18.082
63.0	17.592
63.5	17.125
64.0	16.659
64.5	16.215
65.0	15.772
65.5	15.329
66.0	14.885
66.5	14.465
67.0	14.022
67.5	13.625
68.0	13.206
68.5	12.809
69.0	12.412
69.5	11.992
70.0	11.596
70.5	11.199
71.0	10.826
71.5	10.429
72.0	10.032
72.5	9.659
73.0	9.263
73.5	8.889
74.0	8.539
74.5	8.166
75.0	7.793
75.5	7.443
76.0	7.093
76.5	6.743
77.0	6.416
77.5	6.066
78.0	5.740
78.5	5.413
79.0	5.086
79.5	4.760
80.0	4.456
80.5	4.130
81.0	3.826
81.5	3.523
82.0	3.220
82.5	2.916

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CANDELA TABULATION - (Cont.)

83.0	2.636
83.5	2.333
84.0	2.053
84.5	1.750
85.0	1.470
85.5	1.167
86.0	0.863
86.5	0.653
87.0	0.467
87.5	0.280
88.0	0.187
88.5	0.140
89.0	0.093
89.5	0.070
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
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149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
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153.0	0.000
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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	153.10	N.A.	39.90
0-30	261.02	N.A.	68.00
0-40	307.90	N.A.	80.20
0-60	358.01	N.A.	93.30
0-80	382.00	N.A.	99.50
0-90	383.85	N.A.	100.00
10-90	341.69	N.A.	89.00
20-40	154.80	N.A.	40.30
20-50	182.50	N.A.	47.50
40-70	65.80	N.A.	17.10
60-80	23.99	N.A.	6.20
70-80	8.31	N.A.	2.20
80-90	1.85	N.A.	0.50
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	383.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.16
10-20	110.94
20-30	107.91
30-40	46.88
40-50	27.70
50-60	22.41
60-70	15.68
70-80	8.31
80-90	1.85
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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	57	53	72	62	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

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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	17.4	18.5	17.7	18.9	19.2	17.4	18.5	17.7	18.9	19.2
	3H	18.9	19.9	19.3	20.2	20.6	18.9	19.9	19.3	20.2	20.6
	4H	19.4	20.4	19.8	20.7	21.1	19.4	20.4	19.8	20.7	21.1
	6H	19.7	20.6	20.1	21.0	21.4	19.7	20.6	20.1	21.0	21.4
	8H	19.8	20.7	20.2	21.1	21.5	19.8	20.7	20.2	21.1	21.5
	12H	19.8	20.7	20.3	21.0	21.5	19.8	20.7	20.3	21.0	21.5

UGR Viewed Endwise

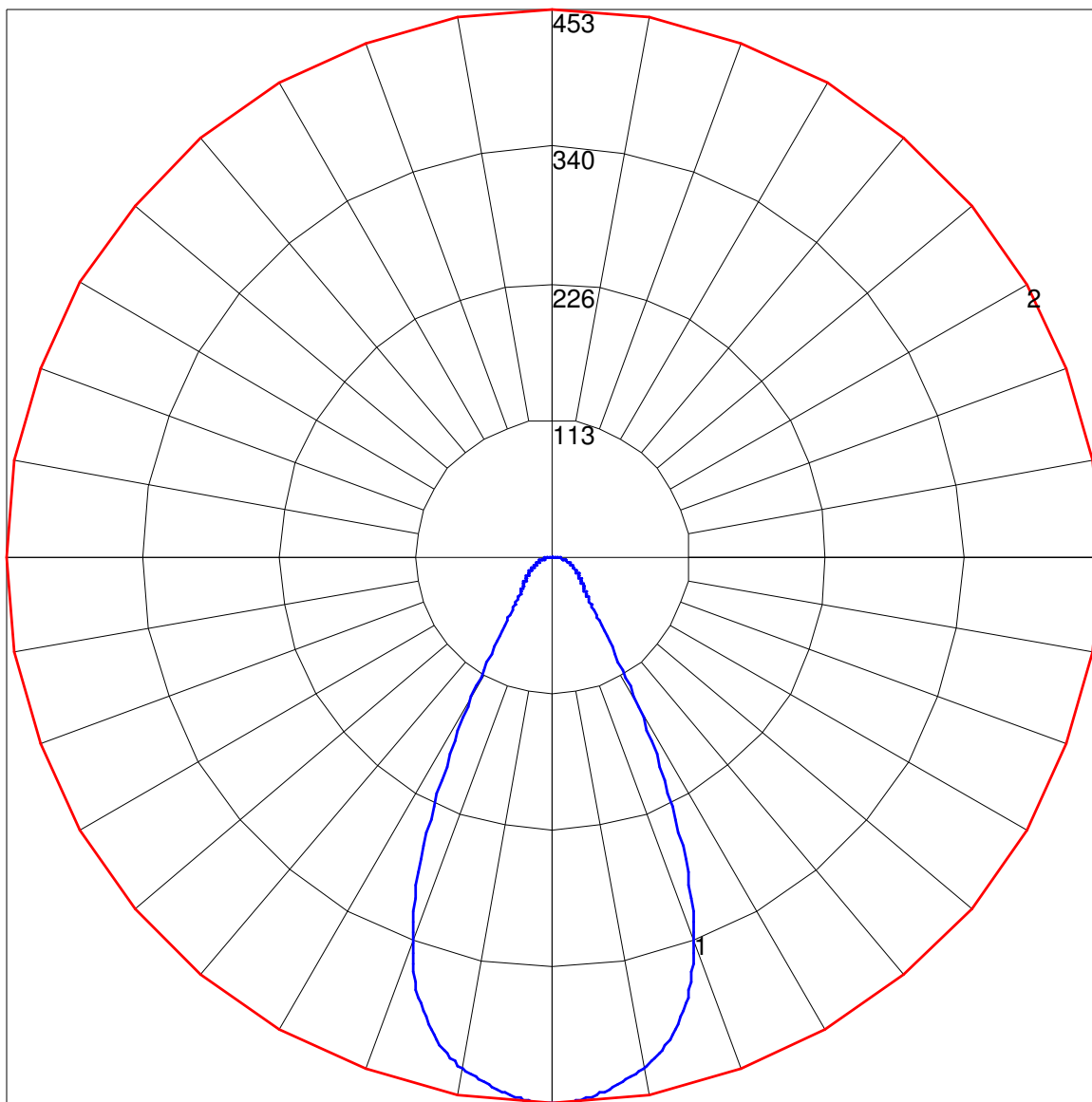
4H	2H	17.9	18.8	18.3	19.2	19.6	17.9	18.8	18.3	19.2	19.6
	3H	19.5	20.3	19.9	20.7	21.1	19.5	20.3	19.9	20.7	21.1
	4H	20.2	20.9	20.6	21.3	21.8	20.2	20.9	20.6	21.3	21.8
	6H	20.6	21.2	21.1	21.7	22.2	20.6	21.2	21.1	21.7	22.2
	8H	20.7	21.3	21.2	21.8	22.2	20.7	21.3	21.2	21.8	22.2
	12H	20.8	21.3	21.3	21.8	22.3	20.8	21.3	21.3	21.8	22.3

8H	4H	20.4	20.9	20.8	21.4	21.9	20.4	20.9	20.8	21.4	21.9
	6H	20.9	21.4	21.4	21.9	22.4	20.9	21.4	21.4	21.9	22.4
	8H	21.1	21.5	21.6	22.0	22.5	21.1	21.5	21.6	22.0	22.5
	12H	21.2	21.6	21.7	22.1	22.6	21.2	21.6	21.7	22.1	22.6

12H	4H	20.3	20.9	20.8	21.3	21.8	20.3	20.9	20.8	21.3	21.8
	6H	20.9	21.4	21.5	21.8	22.4	20.9	21.4	21.5	21.8	22.4
	8H	21.2	21.5	21.7	22.0	22.6	21.2	21.5	21.7	22.0	22.6

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 452.861 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.)