

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-930-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-L8-930-DIM-UNV-LW-OF\_

[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, Vandal-Resistant

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	649
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	10.7
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	26785	26785	26785
55	23393	23393	23393
65	19984	19984	19984
75	16122	16122	16122
85	9031	9031	9031

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CANDELA TABULATION

	0
0.0	766.229
0.5	765.834
1.0	765.834
1.5	765.439
2.0	765.045
2.5	763.860
3.0	762.676
3.5	761.492
4.0	759.913
4.5	757.939
5.0	755.965
5.5	753.991
6.0	752.018
6.5	749.649
7.0	747.280
7.5	744.912
8.0	742.149
8.5	739.385
9.0	736.227
9.5	733.069
10.0	729.516
10.5	725.569
11.0	721.621
11.5	717.279
12.0	712.936
12.5	707.804
13.0	702.673
13.5	697.146
14.0	691.225
14.5	684.908
15.0	678.197
15.5	670.697
16.0	663.197
16.5	654.907
17.0	645.827
17.5	636.748
18.0	626.484
18.5	615.825
19.0	603.983
19.5	591.350
20.0	578.323
20.5	564.112
21.0	549.506
21.5	533.715
22.0	517.135
22.5	500.161
23.0	482.397
23.5	464.238
24.0	445.684
24.5	426.735
25.0	407.392
25.5	388.246
26.0	368.864
26.5	349.678

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**CANDELA TABULATION - (Cont.)**

27.0	330.769
27.5	312.255
28.0	294.136
28.5	276.450
29.0	259.318
29.5	242.619
30.0	226.947
30.5	212.144
31.0	198.169
31.5	185.142
32.0	172.944
32.5	161.615
33.0	151.233
33.5	141.719
34.0	133.074
34.5	125.178
35.0	117.994
35.5	111.480
36.0	105.598
36.5	100.348
37.0	95.611
37.5	91.387
38.0	87.597
38.5	84.163
39.0	81.084
39.5	78.320
40.0	75.794
40.5	73.544
41.0	71.491
41.5	69.596
42.0	67.859
42.5	66.241
43.0	64.780
43.5	63.438
44.0	62.175
44.5	60.990
45.0	59.846
45.5	58.780
46.0	57.753
46.5	56.766
47.0	55.819
47.5	54.872
48.0	53.964
48.5	53.056
49.0	52.148
49.5	51.279
50.0	50.450
50.5	49.621
51.0	48.753
51.5	47.963
52.0	47.134
52.5	46.345
53.0	45.555
53.5	44.766
54.0	43.976
54.5	43.187

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**CANDELA TABULATION - (Cont.)**

55.0	42.397
55.5	41.608
56.0	40.858
56.5	40.029
57.0	39.279
57.5	38.489
58.0	37.700
58.5	36.910
59.0	36.121
59.5	35.331
60.0	34.541
60.5	33.752
61.0	32.962
61.5	32.133
62.0	31.383
62.5	30.594
63.0	29.765
63.5	28.975
64.0	28.186
64.5	27.436
65.0	26.686
65.5	25.936
66.0	25.186
66.5	24.475
67.0	23.725
67.5	23.054
68.0	22.343
68.5	21.672
69.0	21.001
69.5	20.291
70.0	19.620
70.5	18.948
71.0	18.317
71.5	17.646
72.0	16.975
72.5	16.343
73.0	15.672
73.5	15.040
74.0	14.448
74.5	13.817
75.0	13.185
75.5	12.593
76.0	12.001
76.5	11.409
77.0	10.856
77.5	10.264
78.0	9.711
78.5	9.158
79.0	8.606
79.5	8.053
80.0	7.540
80.5	6.987
81.0	6.474
81.5	5.961
82.0	5.448
82.5	4.934

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CANDELA TABULATION - (Cont.)

83.0	4.461
83.5	3.948
84.0	3.474
84.5	2.961
85.0	2.487
85.5	1.974
86.0	1.461
86.5	1.105
87.0	0.790
87.5	0.474
88.0	0.316
88.5	0.237
89.0	0.158
89.5	0.118
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	259.05	N.A.	39.90
0-30	441.63	N.A.	68.00
0-40	520.96	N.A.	80.20
0-60	605.75	N.A.	93.30
0-80	646.34	N.A.	99.50
0-90	649.47	N.A.	100.00
10-90	578.13	N.A.	89.00
20-40	261.91	N.A.	40.30
20-50	308.79	N.A.	47.50
40-70	111.33	N.A.	17.10
60-80	40.59	N.A.	6.20
70-80	14.05	N.A.	2.20
80-90	3.13	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	649.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	71.34
10-20	187.71
20-30	182.59
30-40	79.33
40-50	46.87
50-60	37.92
60-70	26.53
70-80	14.05
80-90	3.13
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	109	106	104	110	107	105	102	103	101	99	99	98	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	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71
5	89	80	74	69	88	79	73	69	78	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	63	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	60	56	64	59	55	63	58	55	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	59	54	50	59	53	50	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

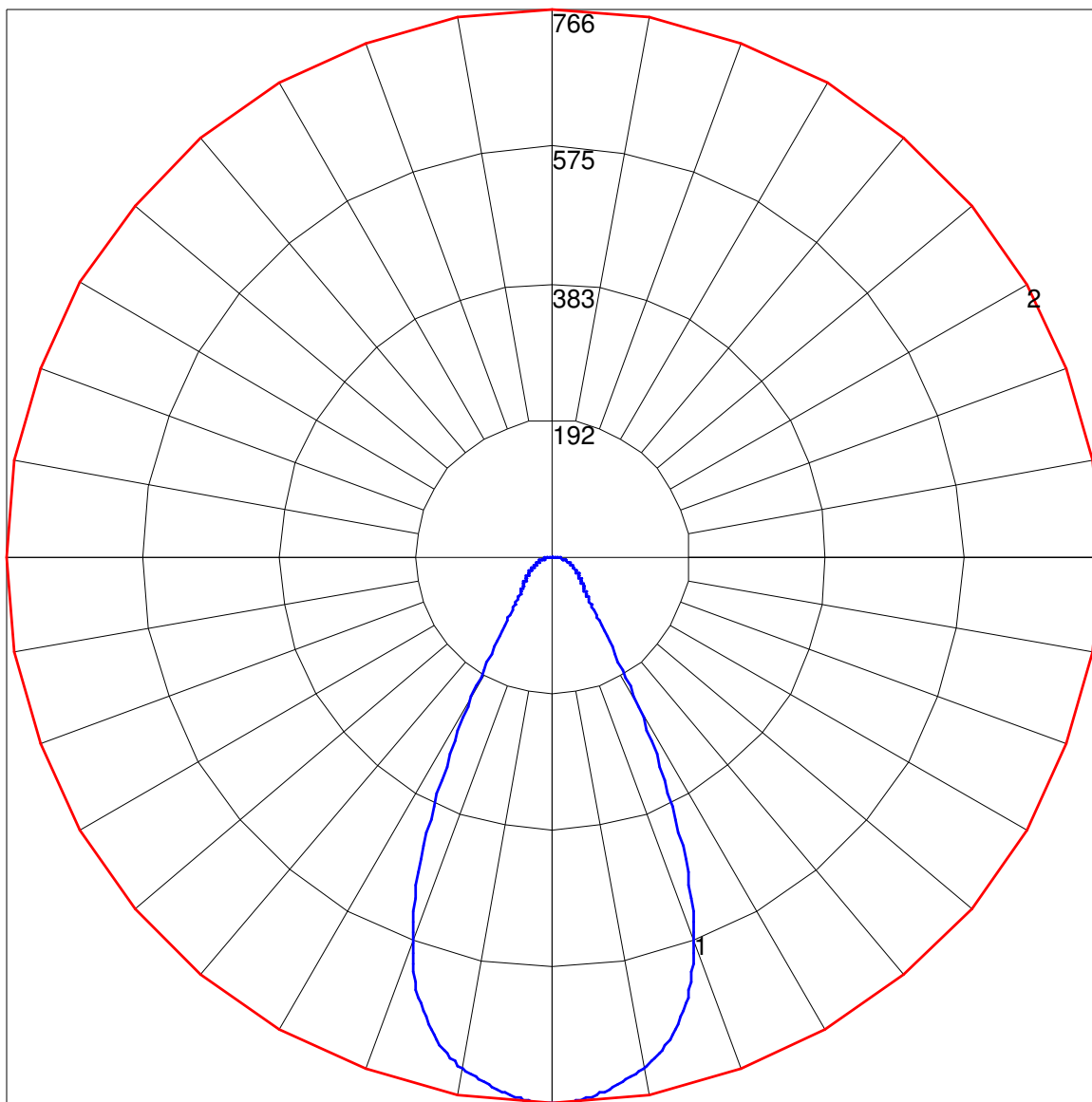
X=2H	Y=2H	19.2	20.3	19.5	20.7	21.0	19.2	20.3	19.5	20.7	21.0
	3H	20.7	21.7	21.1	22.0	22.4	20.7	21.7	21.1	22.0	22.4
	4H	21.2	22.2	21.6	22.5	22.9	21.2	22.2	21.6	22.5	22.9
	6H	21.5	22.4	21.9	22.8	23.2	21.5	22.4	21.9	22.8	23.2
	8H	21.6	22.5	22.0	22.9	23.3	21.6	22.5	22.0	22.9	23.3
	12H	21.6	22.4	22.1	22.8	23.3	21.6	22.4	22.1	22.8	23.3

UGR Viewed Endwise

4H	2H	19.7	20.6	20.1	21.0	21.4	19.7	20.6	20.1	21.0	21.4
	3H	21.3	22.1	21.7	22.5	22.9	21.3	22.1	21.7	22.5	22.9
	4H	22.0	22.7	22.4	23.1	23.5	22.0	22.7	22.4	23.1	23.5
	6H	22.4	23.0	22.9	23.5	24.0	22.4	23.0	22.9	23.5	24.0
	8H	22.5	23.1	23.0	23.6	24.0	22.5	23.1	23.0	23.6	24.0
	12H	22.6	23.1	23.1	23.6	24.1	22.6	23.1	23.1	23.6	24.1
8H	4H	22.2	22.7	22.6	23.2	23.7	22.2	22.7	22.6	23.2	23.7
	6H	22.7	23.2	23.2	23.7	24.2	22.7	23.2	23.2	23.7	24.2
	8H	22.9	23.3	23.4	23.8	24.3	22.9	23.3	23.4	23.8	24.3
	12H	23.0	23.4	23.5	23.9	24.4	23.0	23.4	23.5	23.9	24.4
12H	4H	22.1	22.7	22.6	23.1	23.6	22.1	22.7	22.6	23.1	23.6
	6H	22.7	23.2	23.3	23.6	24.2	22.7	23.2	23.3	23.6	24.2
	8H	23.0	23.3	23.5	23.8	24.4	23.0	23.3	23.5	23.8	24.4

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 766.229 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.)