

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L8-830-DIM-UNV-RW-OF-CS_.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-L8-830-DIM-UNV-RW-OF-CS_
[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	766
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	10.7
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	27475	27475	27475
55	21741	21741	21741
65	16252	16252	16252
75	8462	8462	8462
85	5127	5127	5127

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CANDELA TABULATION

	<u>0</u>
0.0	913.277
0.5	913.277
1.0	912.806
1.5	912.335
2.0	912.335
2.5	911.394
3.0	909.981
3.5	908.098
4.0	906.215
4.5	904.332
5.0	901.508
5.5	899.154
6.0	896.329
6.5	893.034
7.0	889.739
7.5	886.443
8.0	883.148
8.5	879.382
9.0	875.145
9.5	871.379
10.0	867.142
10.5	862.435
11.0	857.256
11.5	852.078
12.0	846.429
12.5	840.780
13.0	834.660
13.5	828.069
14.0	821.008
14.5	813.946
15.0	805.943
15.5	797.940
16.0	788.996
16.5	780.051
17.0	770.636
17.5	760.750
18.0	750.393
18.5	739.095
19.0	727.326
19.5	714.616
20.0	701.434
20.5	687.782
21.0	673.189
21.5	658.124
22.0	641.648
22.5	625.171
23.0	607.753
23.5	589.864
24.0	571.033
24.5	552.203
25.0	532.902
25.5	512.659
26.0	491.945
26.5	471.232

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CANDELA TABULATION - (Cont.)

27.0	450.660
27.5	429.993
28.0	409.139
28.5	388.378
29.0	367.147
29.5	345.774
30.0	324.590
30.5	303.735
31.0	283.163
31.5	263.297
32.0	244.184
32.5	226.107
33.0	209.348
33.5	193.812
34.0	179.360
34.5	166.132
35.0	154.127
35.5	143.111
36.0	133.131
36.5	124.187
37.0	116.231
37.5	109.122
38.0	102.673
38.5	96.930
39.0	91.893
39.5	87.467
40.0	83.513
40.5	80.076
41.0	77.017
41.5	74.286
42.0	71.838
42.5	69.673
43.0	67.695
43.5	65.954
44.0	64.306
44.5	62.800
45.0	61.387
45.5	60.022
46.0	58.751
46.5	57.480
47.0	56.303
47.5	55.126
48.0	53.949
48.5	52.819
49.0	51.690
49.5	50.560
50.0	49.477
50.5	48.441
51.0	47.359
51.5	46.323
52.0	45.334
52.5	44.299
53.0	43.310
53.5	42.321
54.0	41.333
54.5	40.344

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CANDELA TABULATION - (Cont.)

55.0	39.403
55.5	38.461
56.0	37.520
56.5	36.578
57.0	35.637
57.5	34.742
58.0	33.801
58.5	32.906
59.0	32.012
59.5	31.164
60.0	30.270
60.5	29.375
61.0	28.481
61.5	27.634
62.0	26.739
62.5	25.892
63.0	25.044
63.5	24.197
64.0	23.350
64.5	22.502
65.0	21.702
65.5	20.902
66.0	20.102
66.5	19.254
67.0	18.501
67.5	17.748
68.0	16.947
68.5	16.194
69.0	15.441
69.5	14.688
70.0	13.982
70.5	13.228
71.0	12.522
71.5	11.769
72.0	11.063
72.5	10.357
73.0	9.651
73.5	8.944
74.0	8.285
74.5	7.579
75.0	6.920
75.5	6.308
76.0	5.696
76.5	5.225
77.0	4.802
77.5	4.425
78.0	4.143
78.5	3.907
79.0	3.719
79.5	3.531
80.0	3.295
80.5	3.107
81.0	2.919
81.5	2.730
82.0	2.495
82.5	2.307

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CANDELA TABULATION - (Cont.)

83.0	2.166
83.5	1.977
84.0	1.789
84.5	1.601
85.0	1.412
85.5	1.271
86.0	1.083
86.5	0.942
87.0	0.753
87.5	0.612
88.0	0.471
88.5	0.330
89.0	0.188
89.5	0.141
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
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125.5	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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160.5	0.000
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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	308.90	N.A.	40.30
0-30	546.83	N.A.	71.40
0-40	651.52	N.A.	85.00
0-60	735.20	N.A.	95.90
0-80	764.70	N.A.	99.80
0-90	766.33	N.A.	100.00
10-90	681.38	N.A.	88.90
20-40	342.62	N.A.	44.70
20-50	390.99	N.A.	51.00
40-70	105.25	N.A.	13.70
60-80	29.50	N.A.	3.80
70-80	7.93	N.A.	1.00
80-90	1.63	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	766.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.95
10-20	223.95
20-30	237.93
30-40	104.69
40-50	48.37
50-60	35.31
60-70	21.57
70-80	7.93
80-90	1.63
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	111	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	86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	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	73	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	62	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

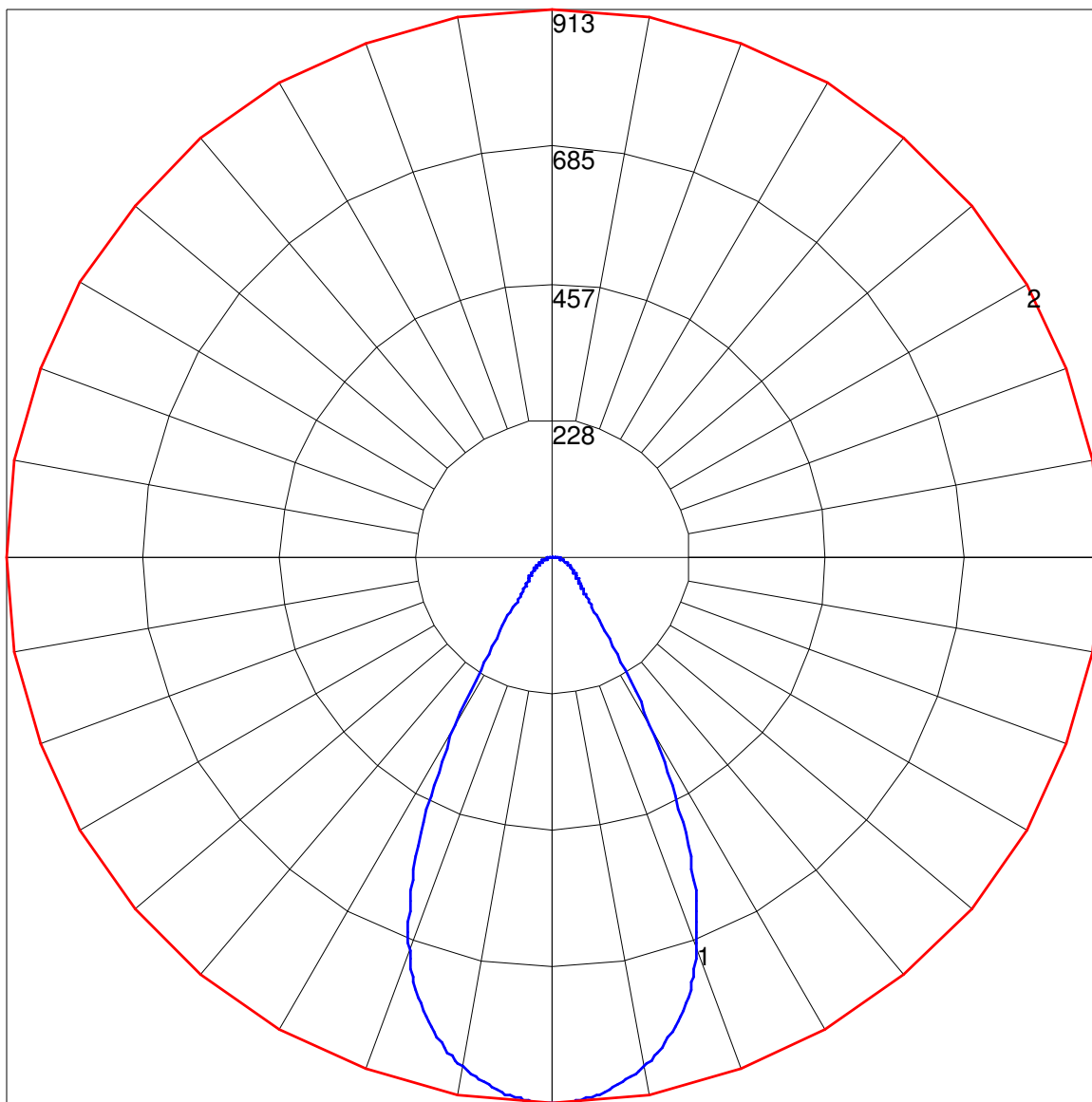
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.0	19.1	18.4	19.4	19.7	18.0	19.1	18.4	19.4	19.7
	3H	19.0	20.0	19.4	20.3	20.7	19.0	20.0	19.4	20.3	20.7
	4H	19.2	20.1	19.6	20.5	20.9	19.2	20.1	19.6	20.5	20.9
	6H	19.2	20.1	19.7	20.5	20.8	19.2	20.1	19.7	20.5	20.8
	8H	19.2	20.0	19.7	20.4	20.8	19.2	20.0	19.7	20.4	20.8
	12H	19.2	20.0	19.7	20.4	20.8	19.2	20.0	19.7	20.4	20.8
4H	2H	18.3	19.2	18.7	19.6	20.0	18.3	19.2	18.7	19.6	20.0
	3H	19.5	20.2	19.9	20.7	21.1	19.5	20.2	19.9	20.7	21.1
	4H	19.7	20.4	20.2	20.8	21.3	19.7	20.4	20.2	20.8	21.3
	6H	19.8	20.4	20.3	20.8	21.3	19.8	20.4	20.3	20.8	21.3
	8H	19.8	20.3	20.3	20.8	21.3	19.8	20.3	20.3	20.8	21.3
	12H	19.8	20.3	20.3	20.8	21.2	19.8	20.3	20.3	20.8	21.2
8H	4H	19.7	20.3	20.2	20.7	21.2	19.7	20.3	20.2	20.7	21.2
	6H	19.9	20.3	20.4	20.8	21.3	19.9	20.3	20.4	20.8	21.3
	8H	19.9	20.3	20.4	20.8	21.3	19.9	20.3	20.4	20.8	21.3
	12H	19.9	20.2	20.4	20.7	21.3	19.9	20.2	20.4	20.7	21.3
12H	4H	19.7	20.1	20.2	20.6	21.1	19.7	20.1	20.2	20.6	21.1
	6H	19.8	20.2	20.4	20.7	21.2	19.8	20.2	20.4	20.7	21.2
	8H	19.9	20.2	20.4	20.7	21.3	19.9	20.2	20.4	20.7	21.3

Maximum UGR = 21.3

POLAR GRAPH



Maximum Candela = 913.277 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.)