

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L18-835-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-L18-835-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	1805
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	23.9
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	74451	74451	74451
55	65023	65023	65023
65	55546	55546	55546
75	44814	44814	44814
85	25103	25103	25103

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CANDELA TABULATION

	<u>0</u>
0.0	2129.790
0.5	2128.692
1.0	2128.692
1.5	2127.595
2.0	2126.498
2.5	2123.206
3.0	2119.914
3.5	2116.622
4.0	2112.233
4.5	2106.747
5.0	2101.261
5.5	2095.774
6.0	2090.288
6.5	2083.704
7.0	2077.121
7.5	2070.537
8.0	2062.856
8.5	2055.176
9.0	2046.397
9.5	2037.619
10.0	2027.744
10.5	2016.771
11.0	2005.799
11.5	1993.729
12.0	1981.659
12.5	1967.394
13.0	1953.130
13.5	1937.768
14.0	1921.309
14.5	1903.753
15.0	1885.100
15.5	1864.252
16.0	1843.404
16.5	1820.361
17.0	1795.124
17.5	1769.887
18.0	1741.358
18.5	1711.732
19.0	1678.814
19.5	1643.702
20.0	1607.492
20.5	1567.990
21.0	1527.392
21.5	1483.501
22.0	1437.416
22.5	1390.234
23.0	1340.857
23.5	1290.383
24.0	1238.811
24.5	1186.142
25.0	1132.377
25.5	1079.159
26.0	1025.284
26.5	971.956

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CANDELA TABULATION - (Cont.)

27.0	919.398
27.5	867.936
28.0	817.571
28.5	768.414
29.0	720.793
29.5	674.378
30.0	630.817
30.5	589.670
31.0	550.827
31.5	514.617
32.0	480.711
32.5	449.220
33.0	420.362
33.5	393.918
34.0	369.888
34.5	347.942
35.0	327.972
35.5	309.867
36.0	293.518
36.5	278.925
37.0	265.757
37.5	254.017
38.0	243.483
38.5	233.937
39.0	225.378
39.5	217.697
40.0	210.675
40.5	204.420
41.0	198.715
41.5	193.448
42.0	188.620
42.5	184.121
43.0	180.061
43.5	176.330
44.0	172.819
44.5	169.527
45.0	166.345
45.5	163.383
46.0	160.530
46.5	157.787
47.0	155.153
47.5	152.520
48.0	149.996
48.5	147.472
49.0	144.949
49.5	142.535
50.0	140.230
50.5	137.926
51.0	135.512
51.5	133.318
52.0	131.013
52.5	128.819
53.0	126.624
53.5	124.430
54.0	122.235
54.5	120.041

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CANDELA TABULATION - (Cont.)

55.0	117.846
55.5	115.652
56.0	113.567
56.5	111.263
57.0	109.178
57.5	106.983
58.0	104.789
58.5	102.594
59.0	100.400
59.5	98.205
60.0	96.011
60.5	93.816
61.0	91.622
61.5	89.317
62.0	87.232
62.5	85.038
63.0	82.734
63.5	80.539
64.0	78.345
64.5	76.260
65.0	74.175
65.5	72.090
66.0	70.005
66.5	68.030
67.0	65.946
67.5	64.080
68.0	62.105
68.5	60.240
69.0	58.374
69.5	56.399
70.0	54.534
70.5	52.669
71.0	50.913
71.5	49.048
72.0	47.182
72.5	45.427
73.0	43.561
73.5	41.806
74.0	40.160
74.5	38.404
75.0	36.649
75.5	35.003
76.0	33.357
76.5	31.711
77.0	30.175
77.5	28.529
78.0	26.993
78.5	25.457
79.0	23.920
79.5	22.384
80.0	20.958
80.5	19.422
81.0	17.995
81.5	16.569
82.0	15.142
82.5	13.716

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CANDELA TABULATION - (Cont.)

83.0	12.399
83.5	10.973
84.0	9.656
84.5	8.229
85.0	6.913
85.5	5.486
86.0	4.060
86.5	3.072
87.0	2.195
87.5	1.317
88.0	0.878
88.5	0.658
89.0	0.439
89.5	0.329
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
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126.5	0.000
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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
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151.0	0.000
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153.5	0.000
154.0	0.000
154.5	0.000
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160.0	0.000
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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	720.03	N.A.	39.90
0-30	1227.55	N.A.	68.00
0-40	1448.04	N.A.	80.20
0-60	1683.73	N.A.	93.30
0-80	1796.54	N.A.	99.50
0-90	1805.24	N.A.	100.00
10-90	1606.94	N.A.	89.00
20-40	728.01	N.A.	40.30
20-50	858.30	N.A.	47.50
40-70	309.44	N.A.	17.10
60-80	112.81	N.A.	6.20
70-80	39.06	N.A.	2.20
80-90	8.69	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	1805.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.29
10-20	521.74
20-30	507.51
30-40	220.50
40-50	130.29
50-60	105.40
60-70	73.75
70-80	39.06
80-90	8.69
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	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	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	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	59	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	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	22.8	23.9	23.1	24.3	24.6	22.8	23.9	23.1	24.3	24.6
	3H	24.3	25.3	24.7	25.6	26.0	24.3	25.3	24.7	25.6	26.0
	4H	24.8	25.8	25.2	26.1	26.5	24.8	25.8	25.2	26.1	26.5
	6H	25.1	26.0	25.5	26.4	26.8	25.1	26.0	25.5	26.4	26.8
	8H	25.2	26.1	25.6	26.5	26.9	25.2	26.1	25.6	26.5	26.9
	12H	25.2	26.1	25.7	26.4	26.9	25.2	26.1	25.7	26.4	26.9

UGR Viewed Endwise

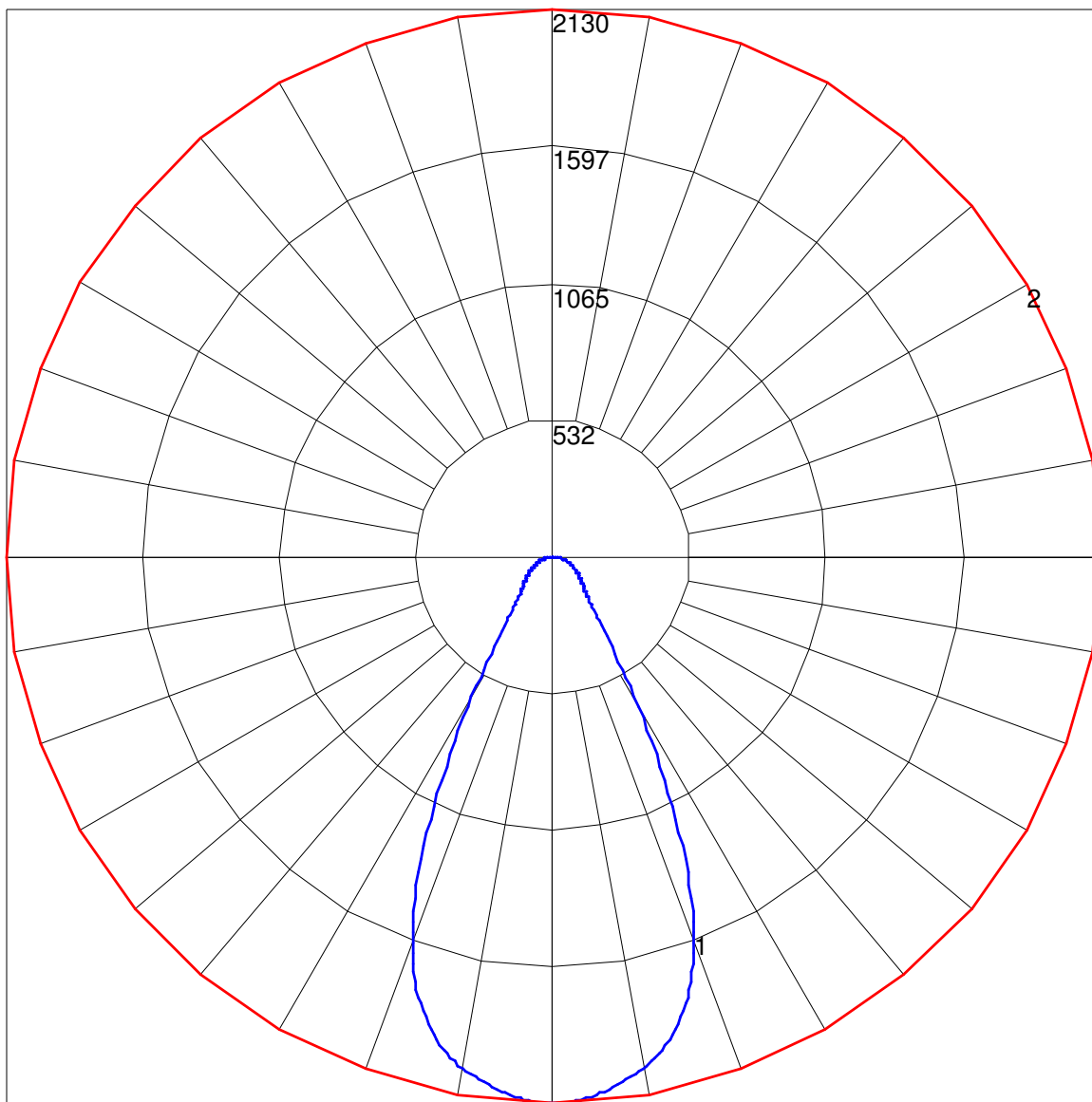
4H	2H	23.3	24.2	23.7	24.6	25.0	23.3	24.2	23.7	24.6	25.0
	3H	24.9	25.7	25.3	26.1	26.5	24.9	25.7	25.3	26.1	26.5
	4H	25.6	26.3	26.0	26.7	27.2	25.6	26.3	26.0	26.7	27.2
	6H	26.0	26.6	26.5	27.1	27.6	26.0	26.6	26.5	27.1	27.6
	8H	26.1	26.7	26.6	27.2	27.6	26.1	26.7	26.6	27.2	27.6
	12H	26.2	26.7	26.7	27.2	27.7	26.2	26.7	26.7	27.2	27.7

8H	4H	25.8	26.3	26.2	26.8	27.3	25.8	26.3	26.2	26.8	27.3
	6H	26.3	26.8	26.8	27.3	27.8	26.3	26.8	26.8	27.3	27.8
	8H	26.5	26.9	27.0	27.4	27.9	26.5	26.9	27.0	27.4	27.9
	12H	26.6	27.0	27.1	27.5	28.0	26.6	27.0	27.1	27.5	28.0

12H	4H	25.7	26.3	26.2	26.7	27.2	25.7	26.3	26.2	26.7	27.2
	6H	26.3	26.8	26.9	27.2	27.8	26.3	26.8	26.9	27.2	27.8
	8H	26.6	26.9	27.1	27.4	28.0	26.6	26.9	27.1	27.4	28.0

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 2129.79 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.)