



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L8-835-DIM-UNV-RN-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.15

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 9 SEP 2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] V6DR-L8-835-DIM-UNV-RN-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, clear plas

[MORE] tic optic, clear glass patterned lens enclosure

[LAMP] One white LED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	897
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	9.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.46
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 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	2937	2937	2937
55	1921	1921	1921
65	1307	1307	1307
75	845	845	845
85	678	678	678

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CANDELA TABULATION

	<u>0</u>
0.0	3331.078
0.5	3328.107
1.0	3318.702
1.5	3302.366
2.0	3279.594
2.5	3249.892
3.0	3214.250
3.5	3173.162
4.0	3127.124
4.5	3075.641
5.0	3019.702
5.5	2958.318
6.0	2891.983
6.5	2821.689
7.0	2747.434
7.5	2669.218
8.0	2587.538
8.5	2502.887
9.0	2414.771
9.5	2324.675
10.0	2232.104
10.5	2139.038
11.0	2044.982
11.5	1950.430
12.0	1856.374
12.5	1762.318
13.0	1670.242
13.5	1578.165
14.0	1489.060
14.5	1402.429
15.0	1317.778
15.5	1237.088
16.0	1160.358
16.5	1087.588
17.0	1017.293
17.5	950.464
18.0	887.099
18.5	828.190
19.0	772.252
19.5	721.758
20.0	672.255
20.5	625.722
21.0	582.654
21.5	542.556
22.0	504.439
22.5	468.598
23.0	435.332
23.5	404.393
24.0	375.532
24.5	348.652
25.0	323.653
25.5	300.485
26.0	279.100
26.5	259.249

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CANDELA TABULATION - (Cont.)

27.0	240.933
27.5	224.101
28.0	208.607
28.5	194.350
29.0	181.232
29.5	169.202
30.0	158.064
30.5	147.866
31.0	138.510
31.5	129.847
32.0	121.877
32.5	114.501
33.0	107.719
33.5	101.432
34.0	95.640
34.5	90.245
35.0	85.245
35.5	80.641
36.0	76.384
36.5	72.374
37.0	68.711
37.5	65.245
38.0	62.077
38.5	59.156
39.0	56.434
39.5	53.860
40.0	51.533
40.5	49.305
41.0	47.276
41.5	45.345
42.0	43.563
42.5	41.880
43.0	40.296
43.5	38.811
44.0	37.375
44.5	36.038
45.0	34.801
45.5	33.613
46.0	32.474
46.5	31.385
47.0	30.346
47.5	29.306
48.0	28.365
48.5	27.425
49.0	26.583
49.5	25.742
50.0	24.950
50.5	24.158
51.0	23.415
51.5	22.722
52.0	22.029
52.5	21.385
53.0	20.742
53.5	20.148
54.0	19.554
54.5	19.009

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CANDELA TABULATION - (Cont.)

55.0	18.465
55.5	17.920
56.0	17.425
56.5	16.930
57.0	16.386
57.5	15.891
58.0	15.445
58.5	14.950
59.0	14.504
59.5	14.009
60.0	13.564
60.5	13.069
61.0	12.623
61.5	12.178
62.0	11.732
62.5	11.336
63.0	10.891
63.5	10.495
64.0	10.049
64.5	9.653
65.0	9.257
65.5	8.861
66.0	8.515
66.5	8.168
67.0	7.822
67.5	7.475
68.0	7.128
68.5	6.831
69.0	6.534
69.5	6.237
70.0	5.940
70.5	5.693
71.0	5.396
71.5	5.148
72.0	4.901
72.5	4.653
73.0	4.455
73.5	4.257
74.0	4.059
74.5	3.861
75.0	3.663
75.5	3.465
76.0	3.317
76.5	3.168
77.0	3.020
77.5	2.871
78.0	2.723
78.5	2.624
79.0	2.475
79.5	2.327
80.0	2.228
80.5	2.079
81.0	1.931
81.5	1.832
82.0	1.683
82.5	1.584

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CANDELA TABULATION - (Cont.)

83.0	1.485
83.5	1.337
84.0	1.238
84.5	1.089
85.0	0.990
85.5	0.891
86.0	0.792
86.5	0.693
87.0	0.594
87.5	0.495
88.0	0.396
88.5	0.297
89.0	0.248
89.5	0.198
90.0	0.149
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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125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
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128.0	0.000
128.5	0.000
129.0	0.000
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130.0	0.000
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131.0	0.000
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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	625.47	N.A.	69.70
0-30	782.18	N.A.	87.20
0-40	838.41	N.A.	93.50
0-60	882.62	N.A.	98.40
0-80	895.94	N.A.	99.90
0-90	897.08	N.A.	100.00
10-90	634.42	N.A.	70.70
20-40	212.94	N.A.	23.70
20-50	240.46	N.A.	26.80
40-70	53.52	N.A.	6.00
60-80	13.32	N.A.	1.50
70-80	4.01	N.A.	0.40
80-90	1.14	N.A.	0.10
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	897.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	262.66
10-20	362.80
20-30	156.72
30-40	56.23
40-50	27.52
50-60	16.69
60-70	9.31
70-80	4.01
80-90	1.14
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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	81	78	75	80	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	68	67

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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	6.4	7.3	6.7	7.6	8.0	6.4	7.3	6.7	7.6	8.0
	3H	7.2	8.1	7.6	8.4	8.8	7.2	8.1	7.6	8.4	8.8
	4H	7.5	8.3	7.9	8.6	9.0	7.5	8.3	7.9	8.6	9.0
	6H	7.6	8.4	8.1	8.7	9.1	7.6	8.4	8.1	8.7	9.1
	8H	7.7	8.4	8.1	8.8	9.2	7.7	8.4	8.1	8.8	9.2
	12H	7.7	8.3	8.1	8.7	9.2	7.7	8.3	8.1	8.7	9.2

UGR Viewed Endwise

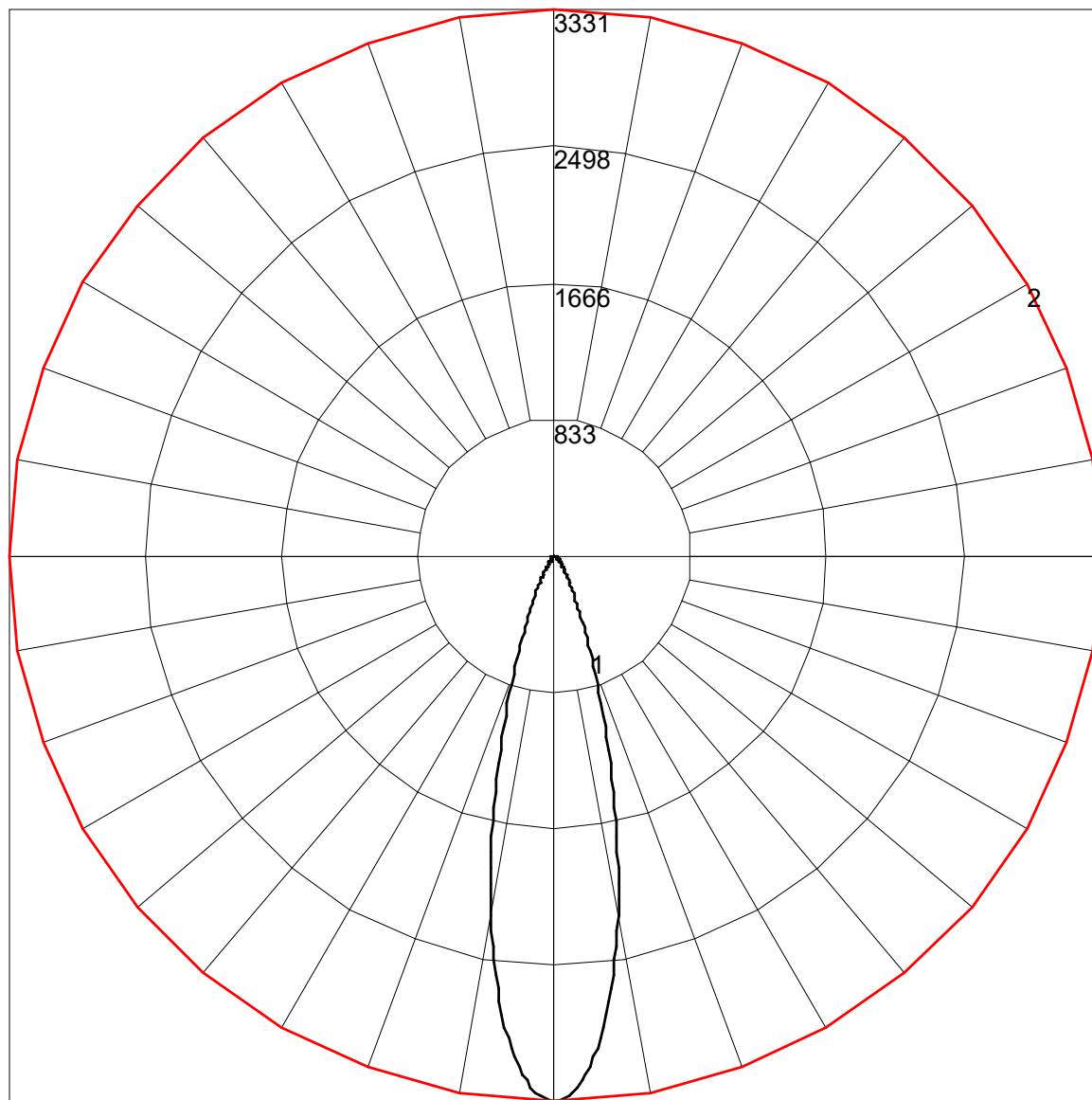
4H	2H	6.6	7.4	7.0	7.7	8.1	6.6	7.4	7.0	7.7	8.1
	3H	7.6	8.3	8.0	8.7	9.1	7.6	8.3	8.0	8.7	9.1
	4H	8.0	8.5	8.4	8.9	9.4	8.0	8.5	8.4	8.9	9.4
	6H	8.2	8.7	8.7	9.1	9.6	8.2	8.7	8.7	9.1	9.6
	8H	8.3	8.7	8.8	9.2	9.7	8.3	8.7	8.8	9.2	9.7
	12H	8.3	8.7	8.8	9.2	9.7	8.3	8.7	8.8	9.2	9.7

8H	4H	8.0	8.4	8.5	8.9	9.4	8.0	8.4	8.5	8.9	9.4
	6H	8.3	8.7	8.9	9.2	9.7	8.3	8.7	8.9	9.2	9.7
	8H	8.5	8.8	9.0	9.3	9.8	8.5	8.8	9.0	9.3	9.8
	12H	8.6	8.9	9.1	9.4	9.9	8.6	8.9	9.1	9.4	9.9

12H	4H	8.0	8.3	8.4	8.8	9.3	8.0	8.3	8.4	8.8	9.3
	6H	8.3	8.7	8.9	9.1	9.7	8.3	8.7	8.9	9.1	9.7
	8H	8.5	8.8	9.0	9.3	9.9	8.5	8.8	9.0	9.3	9.9

Maximum UGR = 9.9

POLAR GRAPH



Maximum Candela = 3331.078 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)