



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P14-835-POE-RM-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.14

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 9 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P14-835-PoE-RM-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl

[MORE] astic 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	1616
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	17.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.56
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	5810	5810	5810
55	3907	3907	3907
65	2907	2907	2907
75	2008	2008	2008
85	1677	1677	1677

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CANDELA TABULATION

	<u>0</u>
0.0	3911.891
0.5	3910.077
1.0	3904.635
1.5	3895.565
2.0	3882.867
2.5	3867.448
3.0	3848.401
3.5	3826.633
4.0	3803.051
4.5	3775.841
5.0	3746.817
5.5	3715.072
6.0	3679.699
6.5	3640.698
7.0	3598.976
7.5	3553.626
8.0	3504.648
8.5	3452.042
9.0	3395.808
9.5	3335.039
10.0	3271.549
10.5	3203.524
11.0	3130.964
11.5	3054.776
12.0	2974.960
12.5	2889.702
13.0	2802.630
13.5	2711.023
14.0	2616.695
14.5	2520.553
15.0	2420.783
15.5	2321.013
16.0	2219.429
16.5	2117.845
17.0	2018.075
17.5	1922.840
18.0	1824.884
18.5	1727.835
19.0	1632.600
19.5	1541.900
20.0	1455.735
20.5	1372.291
21.0	1290.661
21.5	1212.659
22.0	1137.378
22.5	1066.632
23.0	999.514
23.5	936.024
24.0	876.343
24.5	820.382
25.0	767.685
25.5	718.253
26.0	672.087
26.5	628.732

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	588.371
<b>27.5</b>	550.640
<b>28.0</b>	515.267
<b>28.5</b>	482.433
<b>29.0</b>	451.595
<b>29.5</b>	422.753
<b>30.0</b>	395.633
<b>30.5</b>	370.328
<b>31.0</b>	346.655
<b>31.5</b>	324.434
<b>32.0</b>	303.664
<b>32.5</b>	284.163
<b>33.0</b>	265.842
<b>33.5</b>	248.699
<b>34.0</b>	232.555
<b>34.5</b>	217.589
<b>35.0</b>	203.622
<b>35.5</b>	190.561
<b>36.0</b>	178.407
<b>36.5</b>	167.160
<b>37.0</b>	156.730
<b>37.5</b>	147.115
<b>38.0</b>	138.227
<b>38.5</b>	130.064
<b>39.0</b>	122.536
<b>39.5</b>	115.643
<b>40.0</b>	109.384
<b>40.5</b>	103.670
<b>41.0</b>	98.410
<b>41.5</b>	93.602
<b>42.0</b>	89.158
<b>42.5</b>	85.077
<b>43.0</b>	81.267
<b>43.5</b>	77.821
<b>44.0</b>	74.555
<b>44.5</b>	71.653
<b>45.0</b>	68.841
<b>45.5</b>	66.302
<b>46.0</b>	63.853
<b>46.5</b>	61.585
<b>47.0</b>	59.499
<b>47.5</b>	57.595
<b>48.0</b>	55.781
<b>48.5</b>	54.057
<b>49.0</b>	52.425
<b>49.5</b>	50.792
<b>50.0</b>	49.341
<b>50.5</b>	47.980
<b>51.0</b>	46.620
<b>51.5</b>	45.350
<b>52.0</b>	44.171
<b>52.5</b>	42.901
<b>53.0</b>	41.813
<b>53.5</b>	40.724
<b>54.0</b>	39.636
<b>54.5</b>	38.548

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**CANDELA TABULATION - (Cont.)**

55.0	37.550
55.5	36.552
56.0	35.645
56.5	34.647
57.0	33.740
57.5	32.833
58.0	31.926
58.5	31.019
59.0	30.203
59.5	29.296
60.0	28.480
60.5	27.664
61.0	26.847
61.5	26.031
62.0	25.215
62.5	24.398
63.0	23.673
63.5	22.856
64.0	22.131
64.5	21.315
65.0	20.589
65.5	19.863
66.0	19.138
66.5	18.412
67.0	17.687
67.5	17.052
68.0	16.326
68.5	15.691
69.0	15.056
69.5	14.331
70.0	13.786
70.5	13.152
71.0	12.607
71.5	11.972
72.0	11.428
72.5	10.884
73.0	10.431
73.5	9.977
74.0	9.524
74.5	9.070
75.0	8.707
75.5	8.254
76.0	7.891
76.5	7.619
77.0	7.256
77.5	6.893
78.0	6.621
78.5	6.258
79.0	5.986
79.5	5.714
80.0	5.351
80.5	5.079
81.0	4.716
81.5	4.444
82.0	4.172
82.5	3.900

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CANDELA TABULATION - (Cont.)

83.0	3.628
83.5	3.265
84.0	2.993
84.5	2.721
85.0	2.449
85.5	2.177
86.0	1.995
86.5	1.723
87.0	1.451
87.5	1.179
88.0	0.907
88.5	0.726
89.0	0.635
89.5	0.454
90.0	0.363
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

IES INDOOR REPORT  
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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
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131.0	0.000
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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
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151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
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159.5	0.000
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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	994.49	N.A.	61.50
0-30	1359.75	N.A.	84.10
0-40	1494.19	N.A.	92.40
0-60	1583.42	N.A.	98.00
0-80	1613.41	N.A.	99.80
0-90	1616.21	N.A.	100.00
10-90	1273.41	N.A.	78.80
20-40	499.71	N.A.	30.90
20-50	555.03	N.A.	34.30
40-70	109.74	N.A.	6.80
60-80	29.99	N.A.	1.90
70-80	9.48	N.A.	0.60
80-90	2.80	N.A.	0.20
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1616.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	342.80
10-20	651.68
20-30	365.27
30-40	134.44
40-50	55.32
50-60	33.91
60-70	20.52
70-80	9.48
80-90	2.80
90-100	0.01
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	168	168	168	168	165	165	165	165	157	157	157	151	151	151	144	144	144	142
1	161	158	154	152	158	155	152	149	149	147	145	144	142	140	139	138	136	134
2	154	148	143	139	151	146	141	137	141	137	134	137	134	131	133	131	129	126
3	148	140	133	128	145	138	132	127	134	129	125	131	127	124	128	124	122	120
4	142	132	125	120	139	131	124	119	128	122	118	125	121	117	123	119	115	113
5	136	126	119	113	134	124	118	113	122	116	112	120	115	111	118	113	110	108
6	131	120	113	107	129	119	112	107	117	111	106	115	110	106	113	108	105	103
7	126	115	107	102	124	114	107	102	112	106	101	110	105	101	109	104	100	99
8	121	110	102	97	120	109	102	97	107	101	97	106	101	96	105	100	96	94
9	117	105	98	93	115	105	98	93	103	97	93	102	97	93	101	96	92	91
10	113	101	94	89	112	101	94	89	99	93	89	98	93	89	98	92	89	87

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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	8.1	9.1	8.5	9.4	9.7	8.1	9.1	8.5	9.4	9.7
	3H	9.2	10.1	9.6	10.4	10.8	9.2	10.1	9.6	10.4	10.8
	4H	9.5	10.3	9.9	10.7	11.1	9.5	10.3	9.9	10.7	11.1
	6H	9.8	10.5	10.2	10.9	11.3	9.8	10.5	10.2	10.9	11.3
	8H	9.8	10.5	10.3	10.9	11.3	9.8	10.5	10.3	10.9	11.3
	12H	9.9	10.5	10.3	10.9	11.3	9.9	10.5	10.3	10.9	11.3

UGR Viewed Endwise

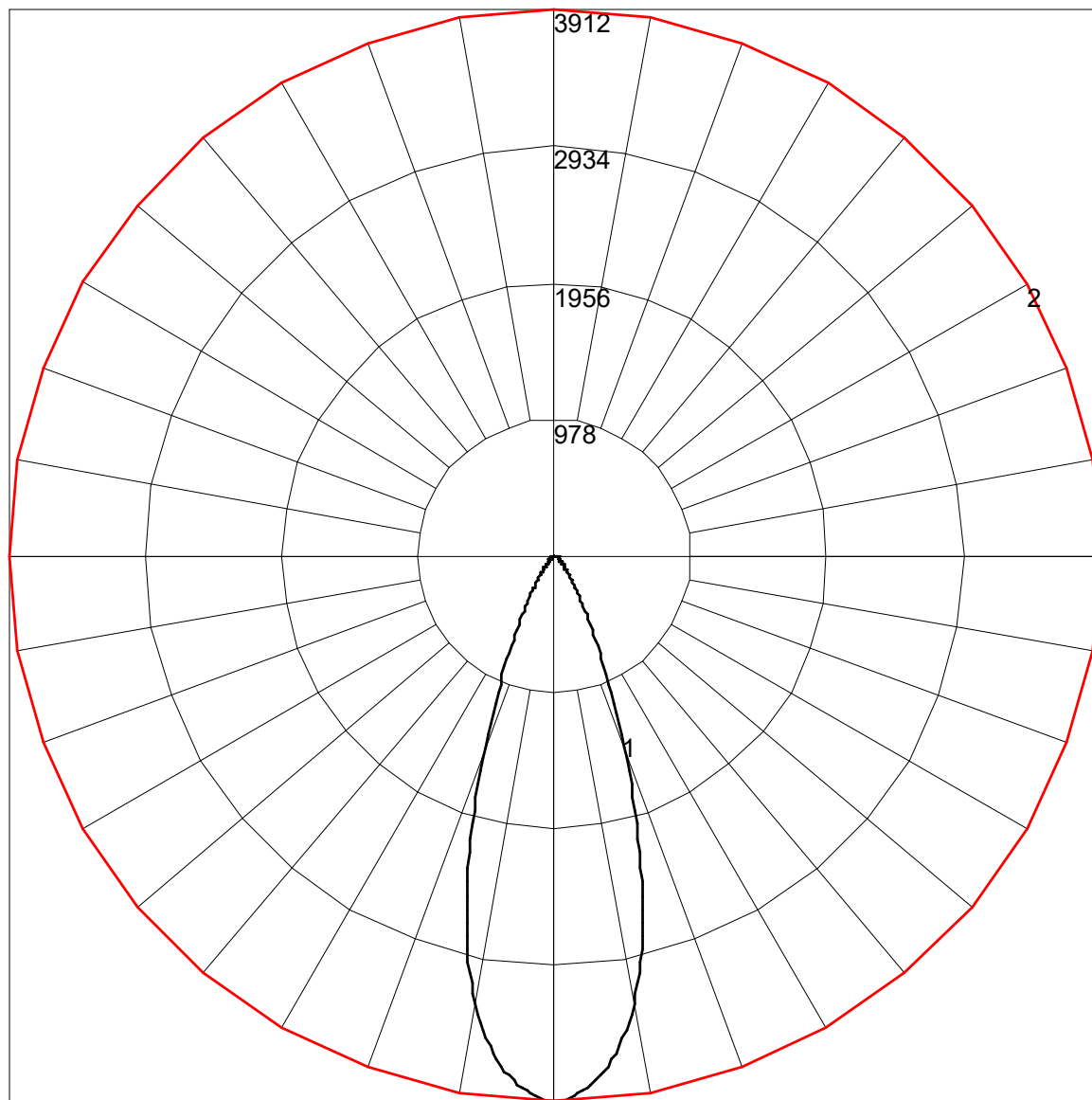
4H	2H	8.4	9.2	8.8	9.6	10.0	8.4	9.2	8.8	9.6	10.0
	3H	9.7	10.3	10.1	10.8	11.2	9.7	10.3	10.1	10.8	11.2
	4H	10.1	10.7	10.5	11.1	11.6	10.1	10.7	10.5	11.1	11.6
	6H	10.4	10.9	10.9	11.4	11.9	10.4	10.9	10.9	11.4	11.9
	8H	10.6	11.0	11.0	11.5	11.9	10.6	11.0	11.0	11.5	11.9
	12H	10.6	11.0	11.1	11.5	12.0	10.6	11.0	11.1	11.5	12.0

8H	4H	10.2	10.6	10.7	11.1	11.6	10.2	10.6	10.7	11.1	11.6
	6H	10.6	11.0	11.2	11.5	12.0	10.6	11.0	11.2	11.5	12.0
	8H	10.8	11.1	11.4	11.7	12.2	10.8	11.1	11.4	11.7	12.2
	12H	11.0	11.2	11.5	11.7	12.3	11.0	11.2	11.5	11.7	12.3

12H	4H	10.2	10.6	10.7	11.0	11.5	10.2	10.6	10.7	11.0	11.5
	6H	10.6	11.0	11.2	11.4	12.0	10.6	11.0	11.2	11.4	12.0
	8H	10.9	11.1	11.4	11.6	12.2	10.9	11.1	11.4	11.6	12.2

Maximum UGR = 12.3

POLAR GRAPH



Maximum Candela = 3911.891 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.)