



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L38-835-DIM-UNV-LW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 9 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-L38-835-DIM-UNV-LW-OF-WH

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

[MORE] s 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	3823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	49.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.46 ft (Diameter)
Luminous Width (90-270)	0.46 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	63549	63549	63549
55	52907	52907	52907
65	40194	40194	40194
75	29149	29149	29149
85	18995	18995	18995

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CANDELA TABULATION

	<u>0</u>
0.0	2431.740
0.5	2431.251
1.0	2429.292
1.5	2426.355
2.0	2422.682
2.5	2417.786
3.0	2412.890
3.5	2407.259
4.0	2402.118
4.5	2396.977
5.0	2393.305
5.5	2389.877
6.0	2386.695
6.5	2383.512
7.0	2380.085
7.5	2376.902
8.0	2373.719
8.5	2370.782
9.0	2367.844
9.5	2365.396
10.0	2362.948
10.5	2360.989
11.0	2359.275
11.5	2358.296
12.0	2356.582
12.5	2354.869
13.0	2352.421
13.5	2349.238
14.0	2345.321
14.5	2340.914
15.0	2336.263
15.5	2330.387
16.0	2324.022
16.5	2317.657
17.0	2311.292
17.5	2304.682
18.0	2297.582
18.5	2289.503
19.0	2280.445
19.5	2270.408
20.0	2258.902
20.5	2246.416
21.0	2230.993
21.5	2212.632
22.0	2191.822
22.5	2168.320
23.0	2142.615
23.5	2114.706
24.0	2083.859
24.5	2050.565
25.0	2014.577
25.5	1977.120
26.0	1937.216
26.5	1895.597

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	1851.286
<b>27.5</b>	1805.750
<b>28.0</b>	1757.767
<b>28.5</b>	1707.090
<b>29.0</b>	1654.455
<b>29.5</b>	1599.127
<b>30.0</b>	1542.330
<b>30.5</b>	1483.819
<b>31.0</b>	1425.309
<b>31.5</b>	1366.309
<b>32.0</b>	1309.022
<b>32.5</b>	1254.184
<b>33.0</b>	1201.549
<b>33.5</b>	1152.341
<b>34.0</b>	1107.050
<b>34.5</b>	1065.921
<b>35.0</b>	1029.199
<b>35.5</b>	995.415
<b>36.0</b>	965.792
<b>36.5</b>	938.618
<b>37.0</b>	914.381
<b>37.5</b>	892.593
<b>38.0</b>	872.763
<b>38.5</b>	854.647
<b>39.0</b>	837.510
<b>39.5</b>	822.086
<b>40.0</b>	807.153
<b>40.5</b>	793.198
<b>41.0</b>	780.223
<b>41.5</b>	767.493
<b>42.0</b>	755.252
<b>42.5</b>	743.991
<b>43.0</b>	732.484
<b>43.5</b>	721.223
<b>44.0</b>	710.206
<b>44.5</b>	699.434
<b>45.0</b>	688.418
<b>45.5</b>	677.891
<b>46.0</b>	667.119
<b>46.5</b>	656.347
<b>47.0</b>	645.330
<b>47.5</b>	634.559
<b>48.0</b>	623.542
<b>48.5</b>	612.525
<b>49.0</b>	601.509
<b>49.5</b>	590.002
<b>50.0</b>	578.986
<b>50.5</b>	567.724
<b>51.0</b>	556.463
<b>51.5</b>	544.957
<b>52.0</b>	533.450
<b>52.5</b>	521.944
<b>53.0</b>	510.438
<b>53.5</b>	498.932
<b>54.0</b>	487.915
<b>54.5</b>	476.653

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**CANDELA TABULATION - (Cont.)**

<b>55.0</b>	464.902
<b>55.5</b>	453.396
<b>56.0</b>	441.890
<b>56.5</b>	431.118
<b>57.0</b>	420.346
<b>57.5</b>	409.085
<b>58.0</b>	397.823
<b>58.5</b>	386.807
<b>59.0</b>	376.035
<b>59.5</b>	365.263
<b>60.0</b>	354.981
<b>60.5</b>	344.699
<b>61.0</b>	334.661
<b>61.5</b>	324.624
<b>62.0</b>	315.076
<b>62.5</b>	305.528
<b>63.0</b>	296.225
<b>63.5</b>	286.922
<b>64.0</b>	277.864
<b>64.5</b>	269.051
<b>65.0</b>	260.238
<b>65.5</b>	251.669
<b>66.0</b>	243.125
<b>66.5</b>	234.728
<b>67.0</b>	226.429
<b>67.5</b>	218.301
<b>68.0</b>	210.320
<b>68.5</b>	202.315
<b>69.0</b>	194.554
<b>69.5</b>	186.867
<b>70.0</b>	179.400
<b>70.5</b>	172.178
<b>71.0</b>	165.103
<b>71.5</b>	158.248
<b>72.0</b>	151.638
<b>72.5</b>	145.224
<b>73.0</b>	138.981
<b>73.5</b>	132.861
<b>74.0</b>	126.985
<b>74.5</b>	121.232
<b>75.0</b>	115.577
<b>75.5</b>	110.117
<b>76.0</b>	104.756
<b>76.5</b>	99.493
<b>77.0</b>	94.376
<b>77.5</b>	89.357
<b>78.0</b>	84.485
<b>78.5</b>	79.712
<b>79.0</b>	75.036
<b>79.5</b>	70.531
<b>80.0</b>	66.051
<b>80.5</b>	61.718
<b>81.0</b>	57.433
<b>81.5</b>	53.174
<b>82.0</b>	49.012
<b>82.5</b>	44.874

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CANDELA TABULATION - (Cont.)

83.0	40.835
83.5	36.869
84.0	32.952
84.5	29.108
85.0	25.363
85.5	21.740
86.0	18.239
86.5	14.860
87.0	11.580
87.5	8.838
88.0	6.757
88.5	4.945
89.0	3.427
89.5	2.154
90.0	1.371
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
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95.5	0.000
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104.5	0.000
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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
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134.0	0.000
134.5	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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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	885.80	N.A.	23.20
0-30	1790.57	N.A.	46.80
0-40	2461.46	N.A.	64.40
0-60	3408.75	N.A.	89.20
0-80	3792.45	N.A.	99.20
0-90	3822.77	N.A.	100.00
10-90	3595.21	N.A.	94.00
20-40	1575.66	N.A.	41.20
20-50	2107.28	N.A.	55.10
40-70	1206.69	N.A.	31.60
60-80	383.70	N.A.	10.00
70-80	124.30	N.A.	3.30
80-90	30.32	N.A.	0.80
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3822.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	227.56
10-20	658.24
20-30	904.77
30-40	670.89
40-50	531.62
50-60	415.67
60-70	259.40
70-80	124.30
80-90	30.32
90-100	0.04
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35

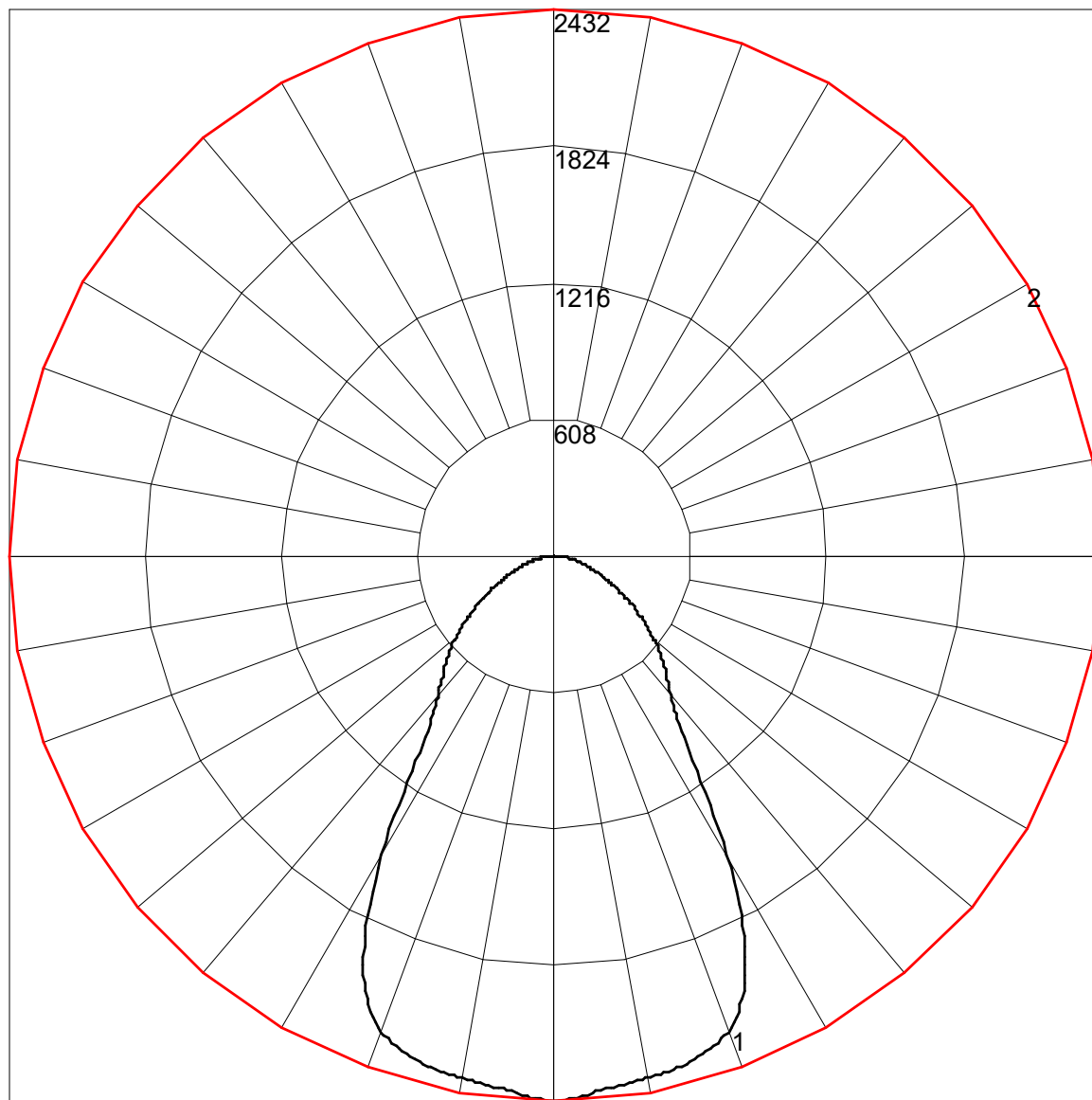
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**UGR TABLE - CORRECTED**

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	23.7	25.1	24.1	25.4	25.7	23.7	25.1	24.1	25.4	25.7
	3H	24.9	26.2	25.3	26.5	26.8	24.9	26.2	25.3	26.5	26.8
	4H	25.3	26.5	25.7	26.8	27.2	25.3	26.5	25.7	26.8	27.2
	6H	25.6	26.6	26.0	27.0	27.4	25.6	26.6	26.0	27.0	27.4
	8H	25.7	26.7	26.1	27.1	27.5	25.7	26.7	26.1	27.1	27.5
	12H	25.7	26.7	26.1	27.0	27.5	25.7	26.7	26.1	27.0	27.5
4H	2H	24.1	25.3	24.5	25.6	26.0	24.1	25.3	24.5	25.6	26.0
	3H	25.5	26.5	25.9	26.9	27.3	25.5	26.5	25.9	26.9	27.3
	4H	26.0	26.9	26.5	27.3	27.7	26.0	26.9	26.5	27.3	27.7
	6H	26.4	27.1	26.9	27.6	28.0	26.4	27.1	26.9	27.6	28.0
	8H	26.5	27.2	26.9	27.6	28.1	26.5	27.2	26.9	27.6	28.1
	12H	26.6	27.2	27.0	27.7	28.1	26.6	27.2	27.0	27.7	28.1
8H	4H	26.2	26.9	26.6	27.3	27.8	26.2	26.9	26.6	27.3	27.8
	6H	26.6	27.2	27.1	27.7	28.2	26.6	27.2	27.1	27.7	28.2
	8H	26.8	27.3	27.3	27.8	28.3	26.8	27.3	27.3	27.8	28.3
	12H	26.9	27.4	27.4	27.9	28.4	26.9	27.4	27.4	27.9	28.4
12H	4H	26.2	26.8	26.7	27.3	27.7	26.2	26.8	26.7	27.3	27.7
	6H	26.7	27.2	27.2	27.6	28.2	26.7	27.2	27.2	27.6	28.2
	8H	26.9	27.3	27.4	27.8	28.4	26.9	27.3	27.4	27.8	28.4

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 2431.74 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.)