



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P27-835-POE-RW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.12

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P27-835-PoE-RW-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	2564
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.94
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	34622	34622	34622
55	28873	28873	28873
65	20370	20370	20370
75	12478	12478	12478
85	9841	9841	9841

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CANDELA TABULATION

	<u>0</u>
0.0	1896.827
0.5	1895.053
1.0	1893.278
1.5	1891.504
2.0	1887.955
2.5	1882.632
3.0	1877.309
3.5	1870.211
4.0	1863.114
4.5	1857.791
5.0	1850.693
5.5	1843.595
6.0	1836.498
6.5	1829.400
7.0	1822.303
7.5	1815.205
8.0	1806.333
8.5	1799.236
9.0	1792.138
9.5	1783.266
10.0	1776.168
10.5	1767.474
11.0	1758.957
11.5	1750.440
12.0	1741.923
12.5	1733.583
13.0	1725.066
13.5	1716.194
14.0	1707.499
14.5	1698.982
15.0	1690.998
15.5	1682.835
16.0	1674.851
16.5	1667.043
17.0	1659.768
17.5	1652.493
18.0	1645.396
18.5	1638.653
19.0	1631.910
19.5	1624.990
20.0	1617.892
20.5	1610.263
21.0	1601.568
21.5	1591.631
22.0	1580.453
22.5	1568.032
23.0	1554.547
23.5	1539.287
24.0	1522.608
24.5	1504.331
25.0	1484.103
25.5	1462.278
26.0	1437.969
26.5	1411.353

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	1382.963
<b>27.5</b>	1352.088
<b>28.0</b>	1319.262
<b>28.5</b>	1283.597
<b>29.0</b>	1245.979
<b>29.5</b>	1205.168
<b>30.0</b>	1161.873
<b>30.5</b>	1116.094
<b>31.0</b>	1068.540
<b>31.5</b>	1019.922
<b>32.0</b>	970.416
<b>32.5</b>	921.265
<b>33.0</b>	872.647
<b>33.5</b>	825.626
<b>34.0</b>	780.556
<b>34.5</b>	738.148
<b>35.0</b>	699.466
<b>35.5</b>	663.978
<b>36.0</b>	632.749
<b>36.5</b>	605.068
<b>37.0</b>	580.759
<b>37.5</b>	559.999
<b>38.0</b>	541.722
<b>38.5</b>	525.576
<b>39.0</b>	511.558
<b>39.5</b>	499.137
<b>40.0</b>	487.781
<b>40.5</b>	477.489
<b>41.0</b>	467.908
<b>41.5</b>	459.213
<b>42.0</b>	451.228
<b>42.5</b>	443.599
<b>43.0</b>	436.323
<b>43.5</b>	429.403
<b>44.0</b>	422.838
<b>44.5</b>	416.628
<b>45.0</b>	410.240
<b>45.5</b>	404.207
<b>46.0</b>	397.997
<b>46.5</b>	391.964
<b>47.0</b>	385.753
<b>47.5</b>	379.543
<b>48.0</b>	373.155
<b>48.5</b>	366.767
<b>49.0</b>	360.734
<b>49.5</b>	354.524
<b>50.0</b>	347.959
<b>50.5</b>	341.216
<b>51.0</b>	334.296
<b>51.5</b>	327.376
<b>52.0</b>	320.456
<b>52.5</b>	313.358
<b>53.0</b>	306.438
<b>53.5</b>	299.695
<b>54.0</b>	292.243
<b>54.5</b>	284.790

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**CANDELA TABULATION - (Cont.)**

<b>55.0</b>	277.515
<b>55.5</b>	270.063
<b>56.0</b>	262.788
<b>56.5</b>	255.513
<b>57.0</b>	248.238
<b>57.5</b>	240.963
<b>58.0</b>	234.043
<b>58.5</b>	226.945
<b>59.0</b>	220.025
<b>59.5</b>	213.282
<b>60.0</b>	206.539
<b>60.5</b>	199.797
<b>61.0</b>	193.232
<b>61.5</b>	186.844
<b>62.0</b>	180.456
<b>62.5</b>	174.245
<b>63.0</b>	168.035
<b>63.5</b>	161.825
<b>64.0</b>	155.969
<b>64.5</b>	149.936
<b>65.0</b>	144.258
<b>65.5</b>	138.403
<b>66.0</b>	132.902
<b>66.5</b>	127.401
<b>67.0</b>	122.078
<b>67.5</b>	116.755
<b>68.0</b>	111.609
<b>68.5</b>	106.464
<b>69.0</b>	101.673
<b>69.5</b>	96.704
<b>70.0</b>	92.091
<b>70.5</b>	87.478
<b>71.0</b>	83.042
<b>71.5</b>	78.783
<b>72.0</b>	74.525
<b>72.5</b>	70.621
<b>73.0</b>	66.895
<b>73.5</b>	63.523
<b>74.0</b>	60.152
<b>74.5</b>	57.135
<b>75.0</b>	54.119
<b>75.5</b>	51.457
<b>76.0</b>	48.796
<b>76.5</b>	46.489
<b>77.0</b>	44.360
<b>77.5</b>	42.231
<b>78.0</b>	40.101
<b>78.5</b>	37.972
<b>79.0</b>	36.020
<b>79.5</b>	34.068
<b>80.0</b>	32.117
<b>80.5</b>	30.165
<b>81.0</b>	28.213
<b>81.5</b>	26.438
<b>82.0</b>	24.487
<b>82.5</b>	22.712

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CANDELA TABULATION - (Cont.)

83.0	20.938
83.5	19.341
84.0	17.567
84.5	15.970
85.0	14.373
85.5	12.776
86.0	11.179
86.5	9.582
87.0	8.162
87.5	6.565
88.0	5.323
88.5	4.259
89.0	3.371
89.5	2.484
90.0	1.774
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
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118.5	0.000
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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
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146.0	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	651.79	N.A.	25.40
0-30	1317.66	N.A.	51.40
0-40	1778.36	N.A.	69.40
0-60	2343.72	N.A.	91.40
0-80	2547.81	N.A.	99.40
0-90	2564.18	N.A.	100.00
10-90	2389.94	N.A.	93.20
20-40	1126.58	N.A.	43.90
20-50	1444.43	N.A.	56.30
40-70	709.40	N.A.	27.70
60-80	204.10	N.A.	8.00
70-80	60.05	N.A.	2.30
80-90	16.37	N.A.	0.60
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2564.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	174.24
10-20	477.54
20-30	665.88
30-40	460.70
40-50	317.85
50-60	247.50
60-70	144.05
70-80	60.05
80-90	16.37
90-100	0.05
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	330	330	330	330	322	322	322	322	308	308	308	295	295	295	283	283	283	277
1	309	299	290	282	302	293	284	277	281	275	268	271	265	260	261	257	253	247
2	288	270	256	243	281	265	252	240	256	245	235	247	238	230	239	232	225	220
3	268	245	228	213	262	241	225	212	234	220	208	226	215	205	220	210	201	196
4	251	224	204	190	245	221	202	188	214	198	186	208	195	184	203	191	181	176
5	234	205	185	170	229	203	184	169	197	181	168	192	178	166	188	175	165	160
6	220	189	169	154	215	187	168	154	182	165	153	178	163	151	174	161	150	145
7	207	175	155	141	202	173	154	140	169	152	140	166	150	139	162	149	138	133
8	195	163	143	129	191	161	142	129	158	141	129	155	139	128	152	138	127	123
9	184	152	133	120	180	151	132	119	148	131	119	145	130	118	143	128	118	114
10	174	143	124	111	171	141	123	111	139	122	111	136	121	110	134	120	110	106

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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	17.7	19.0	18.1	19.3	19.6	17.7	19.0	18.1	19.3	19.6
	3H	18.7	19.8	19.1	20.2	20.5	18.7	19.8	19.1	20.2	20.5
	4H	18.9	20.0	19.3	20.4	20.7	18.9	20.0	19.3	20.4	20.7
	6H	19.1	20.1	19.5	20.5	20.9	19.1	20.1	19.5	20.5	20.9
	8H	19.1	20.1	19.6	20.5	20.9	19.1	20.1	19.6	20.5	20.9
	12H	19.2	20.1	19.6	20.5	20.9	19.2	20.1	19.6	20.5	20.9

UGR Viewed Endwise

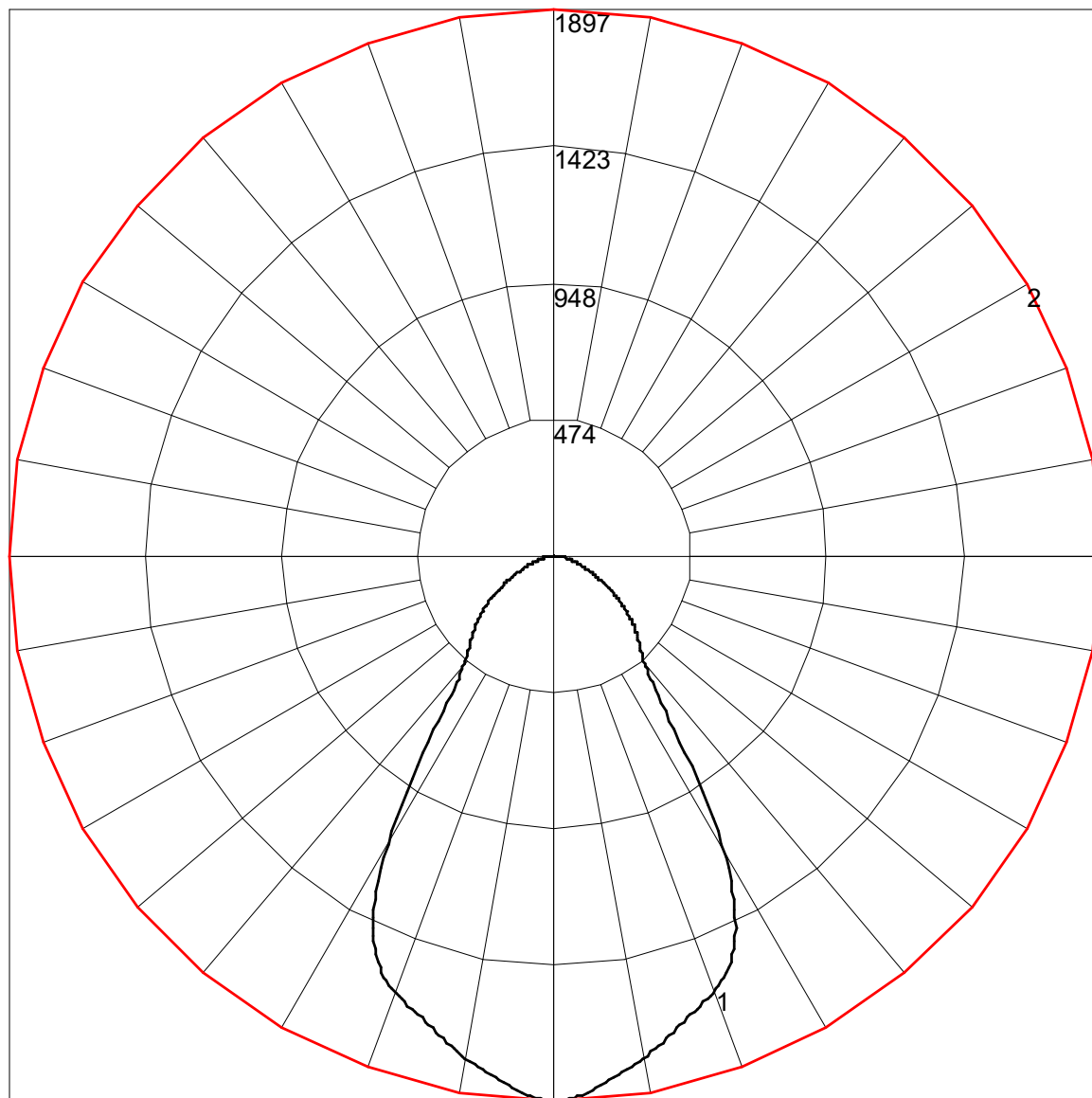
4H	2H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5	19.9
	3H	19.2	20.1	19.6	20.5	20.9	19.2	20.1	19.6	20.5	20.9
	4H	19.5	20.3	19.9	20.7	21.2	19.5	20.3	19.9	20.7	21.2
	6H	19.8	20.5	20.2	20.9	21.4	19.8	20.5	20.2	20.9	21.4
	8H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.3	20.9	21.4
	12H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.4

8H	4H	19.6	20.2	20.0	20.7	21.1	19.6	20.2	20.0	20.7	21.1
	6H	19.9	20.4	20.4	20.9	21.4	19.9	20.4	20.4	20.9	21.4
	8H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.5
	12H	20.2	20.6	20.7	21.1	21.6	20.2	20.6	20.7	21.1	21.6

12H	4H	19.6	20.1	20.1	20.6	21.1	19.6	20.1	20.1	20.6	21.1
	6H	19.9	20.4	20.5	20.9	21.4	19.9	20.4	20.5	20.9	21.4
	8H	20.1	20.5	20.6	21.0	21.6	20.1	20.5	20.6	21.0	21.6

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 1896.827 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.)