



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P27-835-PoE-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	2734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	34
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	45452	45452	45452
55	37840	37840	37840
65	28748	28748	28748
75	20848	20848	20848
85	13586	13586	13586

IES INDOOR REPORT  
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CANDELA TABULATION

	<u>0</u>
0.0	1739.229
0.5	1738.878
1.0	1737.478
1.5	1735.376
2.0	1732.750
2.5	1729.248
3.0	1725.746
3.5	1721.719
4.0	1718.042
4.5	1714.365
5.0	1711.738
5.5	1709.287
6.0	1707.011
6.5	1704.735
7.0	1702.283
7.5	1700.007
8.0	1697.731
8.5	1695.630
9.0	1693.529
9.5	1691.778
10.0	1690.027
10.5	1688.626
11.0	1687.400
11.5	1686.700
12.0	1685.474
12.5	1684.248
13.0	1682.497
13.5	1680.221
14.0	1677.420
14.5	1674.268
15.0	1670.941
15.5	1666.739
16.0	1662.186
16.5	1657.634
17.0	1653.081
17.5	1648.354
18.0	1643.276
18.5	1637.498
19.0	1631.019
19.5	1623.840
20.0	1615.611
20.5	1606.681
21.0	1595.650
21.5	1582.518
22.0	1567.634
22.5	1550.825
23.0	1532.440
23.5	1512.479
24.0	1490.417
24.5	1466.604
25.0	1440.865
25.5	1414.075
26.0	1385.535
26.5	1355.768

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	1324.076
<b>27.5</b>	1291.508
<b>28.0</b>	1257.189
<b>28.5</b>	1220.944
<b>29.0</b>	1183.299
<b>29.5</b>	1143.727
<b>30.0</b>	1103.105
<b>30.5</b>	1061.257
<b>31.0</b>	1019.409
<b>31.5</b>	977.211
<b>32.0</b>	936.238
<b>32.5</b>	897.017
<b>33.0</b>	859.371
<b>33.5</b>	824.177
<b>34.0</b>	791.784
<b>34.5</b>	762.368
<b>35.0</b>	736.104
<b>35.5</b>	711.940
<b>36.0</b>	690.754
<b>36.5</b>	671.318
<b>37.0</b>	653.984
<b>37.5</b>	638.400
<b>38.0</b>	624.217
<b>38.5</b>	611.260
<b>39.0</b>	599.003
<b>39.5</b>	587.972
<b>40.0</b>	577.292
<b>40.5</b>	567.311
<b>41.0</b>	558.031
<b>41.5</b>	548.926
<b>42.0</b>	540.171
<b>42.5</b>	532.117
<b>43.0</b>	523.887
<b>43.5</b>	515.833
<b>44.0</b>	507.953
<b>44.5</b>	500.249
<b>45.0</b>	492.370
<b>45.5</b>	484.841
<b>46.0</b>	477.137
<b>46.5</b>	469.432
<b>47.0</b>	461.553
<b>47.5</b>	453.849
<b>48.0</b>	445.970
<b>48.5</b>	438.090
<b>49.0</b>	430.211
<b>49.5</b>	421.981
<b>50.0</b>	414.102
<b>50.5</b>	406.048
<b>51.0</b>	397.993
<b>51.5</b>	389.764
<b>52.0</b>	381.534
<b>52.5</b>	373.305
<b>53.0</b>	365.075
<b>53.5</b>	356.846
<b>54.0</b>	348.966
<b>54.5</b>	340.912

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

**CANDELA TABULATION - (Cont.)**

<b>55.0</b>	332.507
<b>55.5</b>	324.278
<b>56.0</b>	316.048
<b>56.5</b>	308.344
<b>57.0</b>	300.640
<b>57.5</b>	292.585
<b>58.0</b>	284.531
<b>58.5</b>	276.652
<b>59.0</b>	268.947
<b>59.5</b>	261.243
<b>60.0</b>	253.889
<b>60.5</b>	246.535
<b>61.0</b>	239.356
<b>61.5</b>	232.177
<b>62.0</b>	225.349
<b>62.5</b>	218.520
<b>63.0</b>	211.866
<b>63.5</b>	205.213
<b>64.0</b>	198.734
<b>64.5</b>	192.431
<b>65.0</b>	186.127
<b>65.5</b>	179.999
<b>66.0</b>	173.888
<b>66.5</b>	167.882
<b>67.0</b>	161.946
<b>67.5</b>	156.133
<b>68.0</b>	150.425
<b>68.5</b>	144.699
<b>69.0</b>	139.149
<b>69.5</b>	133.651
<b>70.0</b>	128.310
<b>70.5</b>	123.145
<b>71.0</b>	118.085
<b>71.5</b>	113.182
<b>72.0</b>	108.454
<b>72.5</b>	103.867
<b>73.0</b>	99.402
<b>73.5</b>	95.025
<b>74.0</b>	90.822
<b>74.5</b>	86.708
<b>75.0</b>	82.663
<b>75.5</b>	78.758
<b>76.0</b>	74.924
<b>76.5</b>	71.159
<b>77.0</b>	67.500
<b>77.5</b>	63.910
<b>78.0</b>	60.426
<b>78.5</b>	57.011
<b>79.0</b>	53.667
<b>79.5</b>	50.445
<b>80.0</b>	47.241
<b>80.5</b>	44.142
<b>81.0</b>	41.078
<b>81.5</b>	38.031
<b>82.0</b>	35.054
<b>82.5</b>	32.095

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

CANDELA TABULATION - (Cont.)

83.0	29.206
83.5	26.369
84.0	23.568
84.5	20.819
85.0	18.140
85.5	15.549
86.0	13.045
86.5	10.628
87.0	8.282
87.5	6.321
88.0	4.833
88.5	3.537
89.0	2.451
89.5	1.541
90.0	0.981
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  
PHOTOMETRIC FILENAME : V6DR-P27-835-POE-LW-OF-WH\_.IES

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
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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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V6DR-P27-835-POE-LW-OF-WH\_.IES

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

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	633.54	N.A.	23.20
0-30	1280.65	N.A.	46.80
0-40	1760.49	N.A.	64.40
0-60	2438.01	N.A.	89.20
0-80	2712.43	N.A.	99.20
0-90	2734.12	N.A.	100.00
10-90	2571.36	N.A.	94.00
20-40	1126.94	N.A.	41.20
20-50	1507.17	N.A.	55.10
40-70	863.05	N.A.	31.60
60-80	274.43	N.A.	10.00
70-80	88.90	N.A.	3.30
80-90	21.69	N.A.	0.80
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2734.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.76
10-20	470.79
20-30	647.11
30-40	479.84
40-50	380.22
50-60	297.29
60-70	185.53
70-80	88.90
80-90	21.69
90-100	0.03
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	329	329	329	329	322	322	322	322	307	307	307	294	294	294	282	282	282	277
1	307	297	287	278	300	290	282	274	279	272	265	268	263	257	259	254	250	244
2	285	266	251	238	278	261	247	235	252	240	230	243	233	225	235	227	220	215
3	265	240	222	207	258	236	219	205	228	214	202	221	209	198	215	204	195	190
4	246	218	198	182	240	215	196	181	208	192	179	202	188	177	197	184	174	169
5	230	199	178	163	224	196	177	162	191	174	160	186	171	159	181	168	157	152
6	215	183	162	147	210	181	161	146	176	158	145	172	156	144	168	153	143	138
7	201	169	148	133	197	167	147	133	163	145	132	159	143	131	156	141	130	125
8	189	157	136	122	185	155	135	121	151	134	121	148	132	120	145	130	120	115
9	178	146	126	112	175	144	125	112	141	124	111	138	122	111	136	121	110	106
10	169	136	117	104	165	135	116	103	132	115	103	130	114	103	127	113	102	98

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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	19.0	20.4	19.4	20.7	21.0	19.0	20.4	19.4	20.7	21.0
	3H	20.2	21.5	20.6	21.8	22.1	20.2	21.5	20.6	21.8	22.1
	4H	20.6	21.8	21.0	22.1	22.5	20.6	21.8	21.0	22.1	22.5
	6H	20.9	21.9	21.3	22.3	22.7	20.9	21.9	21.3	22.3	22.7
	8H	21.0	22.0	21.4	22.4	22.8	21.0	22.0	21.4	22.4	22.8
	12H	21.0	22.0	21.4	22.3	22.8	21.0	22.0	21.4	22.3	22.8

UGR Viewed Endwise

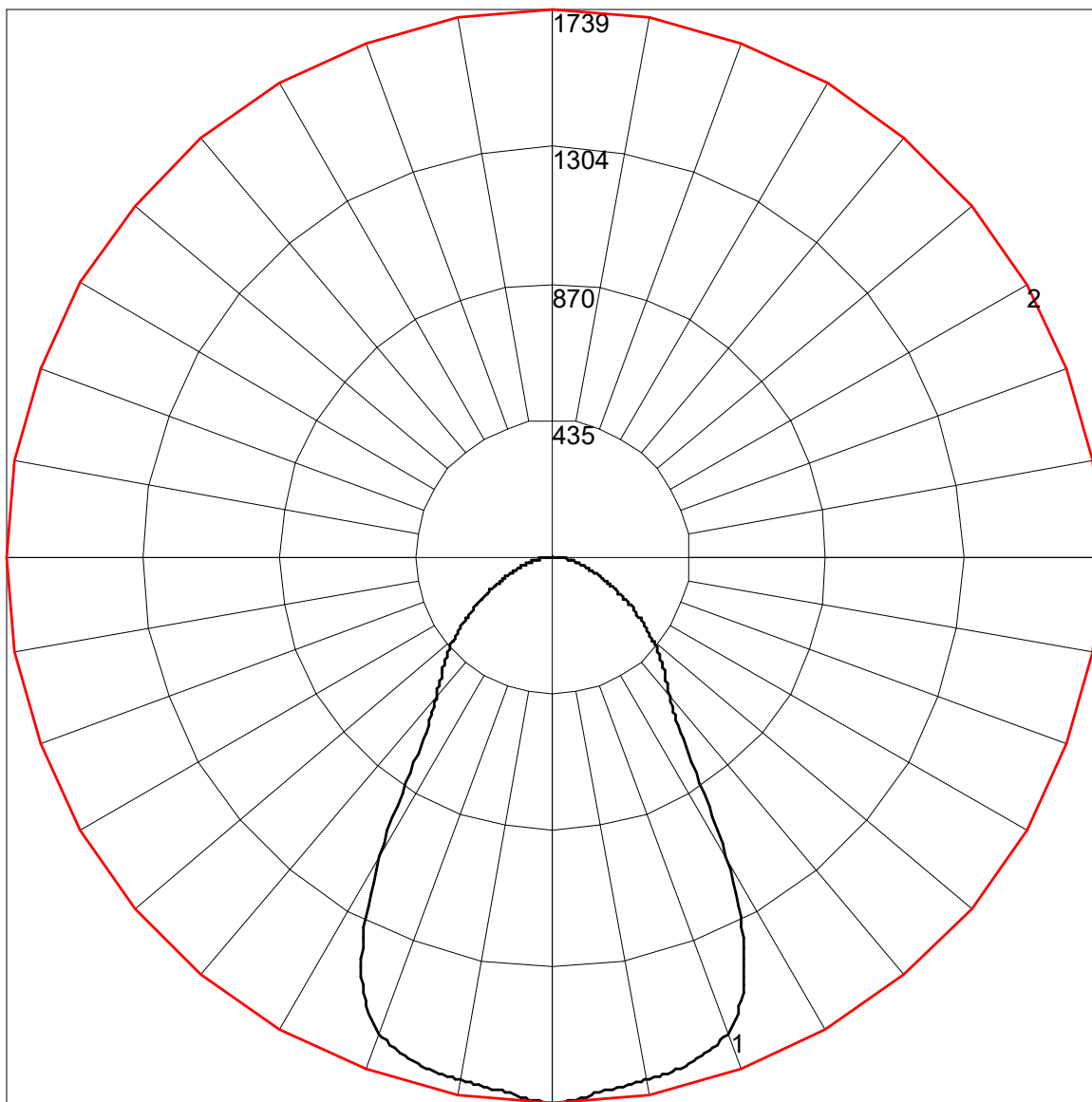
4H	2H	19.4	20.6	19.8	20.9	21.3	19.4	20.6	19.8	20.9	21.3
	3H	20.8	21.8	21.2	22.2	22.6	20.8	21.8	21.2	22.2	22.6
	4H	21.3	22.2	21.8	22.6	23.0	21.3	22.2	21.8	22.6	23.0
	6H	21.7	22.4	22.2	22.9	23.3	21.7	22.4	22.2	22.9	23.3
	8H	21.8	22.5	22.2	22.9	23.4	21.8	22.5	22.2	22.9	23.4
	12H	21.9	22.5	22.3	23.0	23.4	21.9	22.5	22.3	23.0	23.4

8H	4H	21.5	22.2	21.9	22.6	23.1	21.5	22.2	21.9	22.6	23.1
	6H	21.9	22.5	22.4	23.0	23.5	21.9	22.5	22.4	23.0	23.5
	8H	22.1	22.6	22.6	23.1	23.6	22.1	22.6	22.6	23.1	23.6
	12H	22.2	22.7	22.7	23.2	23.7	22.2	22.7	22.7	23.2	23.7

12H	4H	21.5	22.1	22.0	22.6	23.0	21.5	22.1	22.0	22.6	23.0
	6H	22.0	22.5	22.5	22.9	23.5	22.0	22.5	22.5	22.9	23.5
	8H	22.2	22.6	22.7	23.1	23.7	22.2	22.6	22.7	23.1	23.7

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1739.229 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.)