



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.10

[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-LN-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	3212
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.44
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	12084	12084	12084
55	8842	8842	8842
65	7190	7190	7190
75	5870	5870	5870
85	3801	3801	3801

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CANDELA TABULATION

	<u>0</u>
0.0	12017.250
0.5	12006.750
1.0	11971.750
1.5	11910.500
2.0	11826.500
2.5	11719.750
3.0	11592.000
3.5	11441.500
4.0	11270.000
4.5	11081.000
5.0	10876.250
5.5	10652.250
6.0	10410.750
6.5	10153.500
7.0	9880.500
7.5	9593.500
8.0	9290.750
8.5	8979.250
9.0	8660.750
9.5	8331.750
10.0	7999.250
10.5	7661.500
11.0	7318.500
11.5	6973.750
12.0	6629.000
12.5	6287.750
13.0	5950.000
13.5	5617.500
14.0	5292.000
14.5	4975.250
15.0	4670.750
15.5	4378.500
16.0	4100.250
16.5	3836.000
17.0	3584.000
17.5	3344.250
18.0	3118.500
18.5	2908.500
19.0	2710.750
19.5	2527.000
20.0	2352.000
20.5	2185.750
21.0	2031.750
21.5	1888.250
22.0	1751.750
22.5	1625.225
23.0	1506.575
23.5	1396.675
24.0	1293.775
24.5	1198.400
25.0	1110.200
25.5	1028.475
26.0	952.875
26.5	883.225

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	819.350
<b>27.5</b>	760.550
<b>28.0</b>	706.650
<b>28.5</b>	657.475
<b>29.0</b>	612.150
<b>29.5</b>	570.500
<b>30.0</b>	532.350
<b>30.5</b>	497.525
<b>31.0</b>	465.500
<b>31.5</b>	436.275
<b>32.0</b>	409.325
<b>32.5</b>	384.650
<b>33.0</b>	361.900
<b>33.5</b>	341.075
<b>34.0</b>	321.825
<b>34.5</b>	304.325
<b>35.0</b>	288.050
<b>35.5</b>	273.175
<b>36.0</b>	259.525
<b>36.5</b>	246.750
<b>37.0</b>	235.200
<b>37.5</b>	224.525
<b>38.0</b>	214.725
<b>38.5</b>	205.450
<b>39.0</b>	197.050
<b>39.5</b>	189.175
<b>40.0</b>	182.000
<b>40.5</b>	175.175
<b>41.0</b>	169.050
<b>41.5</b>	163.100
<b>42.0</b>	157.675
<b>42.5</b>	152.600
<b>43.0</b>	147.700
<b>43.5</b>	143.150
<b>44.0</b>	138.775
<b>44.5</b>	134.750
<b>45.0</b>	130.900
<b>45.5</b>	127.225
<b>46.0</b>	123.725
<b>46.5</b>	120.225
<b>47.0</b>	117.075
<b>47.5</b>	113.925
<b>48.0</b>	110.775
<b>48.5</b>	107.800
<b>49.0</b>	105.000
<b>49.5</b>	102.375
<b>50.0</b>	99.750
<b>50.5</b>	97.125
<b>51.0</b>	94.675
<b>51.5</b>	92.400
<b>52.0</b>	90.125
<b>52.5</b>	87.850
<b>53.0</b>	85.575
<b>53.5</b>	83.650
<b>54.0</b>	81.550
<b>54.5</b>	79.625

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CANDELA TABULATION - (Cont.)

55.0	77.700
55.5	75.775
56.0	73.850
56.5	72.100
57.0	70.350
57.5	68.775
58.0	67.025
58.5	65.450
59.0	63.875
59.5	62.125
60.0	60.725
60.5	59.150
61.0	57.575
61.5	56.175
62.0	54.775
62.5	53.375
63.0	51.975
63.5	50.575
64.0	49.175
64.5	47.775
65.0	46.550
65.5	45.150
66.0	43.925
66.5	42.525
67.0	41.300
67.5	40.075
68.0	38.850
68.5	37.625
69.0	36.400
69.5	35.175
70.0	33.950
70.5	32.900
71.0	31.675
71.5	30.625
72.0	29.575
72.5	28.350
73.0	27.300
73.5	26.250
74.0	25.200
74.5	24.150
75.0	23.275
75.5	22.225
76.0	21.175
76.5	20.125
77.0	19.250
77.5	18.200
78.0	17.325
78.5	16.450
79.0	15.400
79.5	14.525
80.0	13.650
80.5	12.775
81.0	11.900
81.5	11.025
82.0	10.150
82.5	9.275

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CANDELA TABULATION - (Cont.)

83.0	8.400
83.5	7.525
84.0	6.825
84.5	5.950
85.0	5.075
85.5	4.375
86.0	3.675
86.5	2.975
87.0	2.450
87.5	1.925
88.0	1.400
88.5	1.050
89.0	0.875
89.5	0.525
90.0	0.350
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
118.5	0.000
119.0	0.000
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125.5	0.000
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127.0	0.000
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128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
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
153.5	0.000
154.0	0.000
154.5	0.000
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157.0	0.000
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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	2231.52	N.A.	69.50
0-30	2771.15	N.A.	86.30
0-40	2961.94	N.A.	92.20
0-60	3134.96	N.A.	97.60
0-80	3205.87	N.A.	99.80
0-90	3212.13	N.A.	100.00
10-90	2267.57	N.A.	70.60
20-40	730.42	N.A.	22.70
20-50	833.37	N.A.	25.90
40-70	219.27	N.A.	6.80
60-80	70.91	N.A.	2.20
70-80	24.66	N.A.	0.80
80-90	6.26	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	3212.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	944.55
10-20	1286.97
20-30	539.63
30-40	190.79
40-50	102.95
50-60	70.07
60-70	46.25
70-80	24.66
80-90	6.26
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	329	329	329	329	321	321	321	321	307	307	307	294	294	294	282	282	282	276
1	316	309	303	297	309	303	298	293	292	288	284	282	278	275	272	270	267	263
2	303	291	282	274	297	287	278	271	278	271	265	270	264	259	262	258	254	250
3	291	276	265	255	286	273	262	253	266	257	249	259	252	246	253	247	242	238
4	280	263	250	241	276	260	248	239	254	244	237	249	241	234	244	237	231	228
5	270	251	238	229	266	249	237	228	244	234	226	240	231	224	236	228	222	218
6	261	241	228	218	257	239	227	217	235	224	216	232	222	215	228	220	213	210
7	252	232	218	209	249	230	218	209	227	216	208	224	214	207	221	212	206	202
8	244	223	210	201	241	222	209	201	219	208	200	217	207	199	214	205	198	195
9	237	216	203	194	234	214	202	194	212	201	193	210	200	193	208	199	192	189
10	230	209	196	188	227	208	196	187	206	195	187	204	194	186	202	193	186	183

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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	8.9	9.9	9.2	10.2	10.5	8.9	9.9	9.2	10.2	10.5
	3H	10.3	11.1	10.7	11.5	11.8	10.3	11.1	10.7	11.5	11.8
	4H	10.8	11.6	11.2	11.9	12.3	10.8	11.6	11.2	11.9	12.3
	6H	11.1	11.8	11.5	12.2	12.6	11.1	11.8	11.5	12.2	12.6
	8H	11.2	11.9	11.6	12.3	12.7	11.2	11.9	11.6	12.3	12.7
	12H	11.2	11.9	11.7	12.3	12.7	11.2	11.9	11.7	12.3	12.7

UGR Viewed Endwise

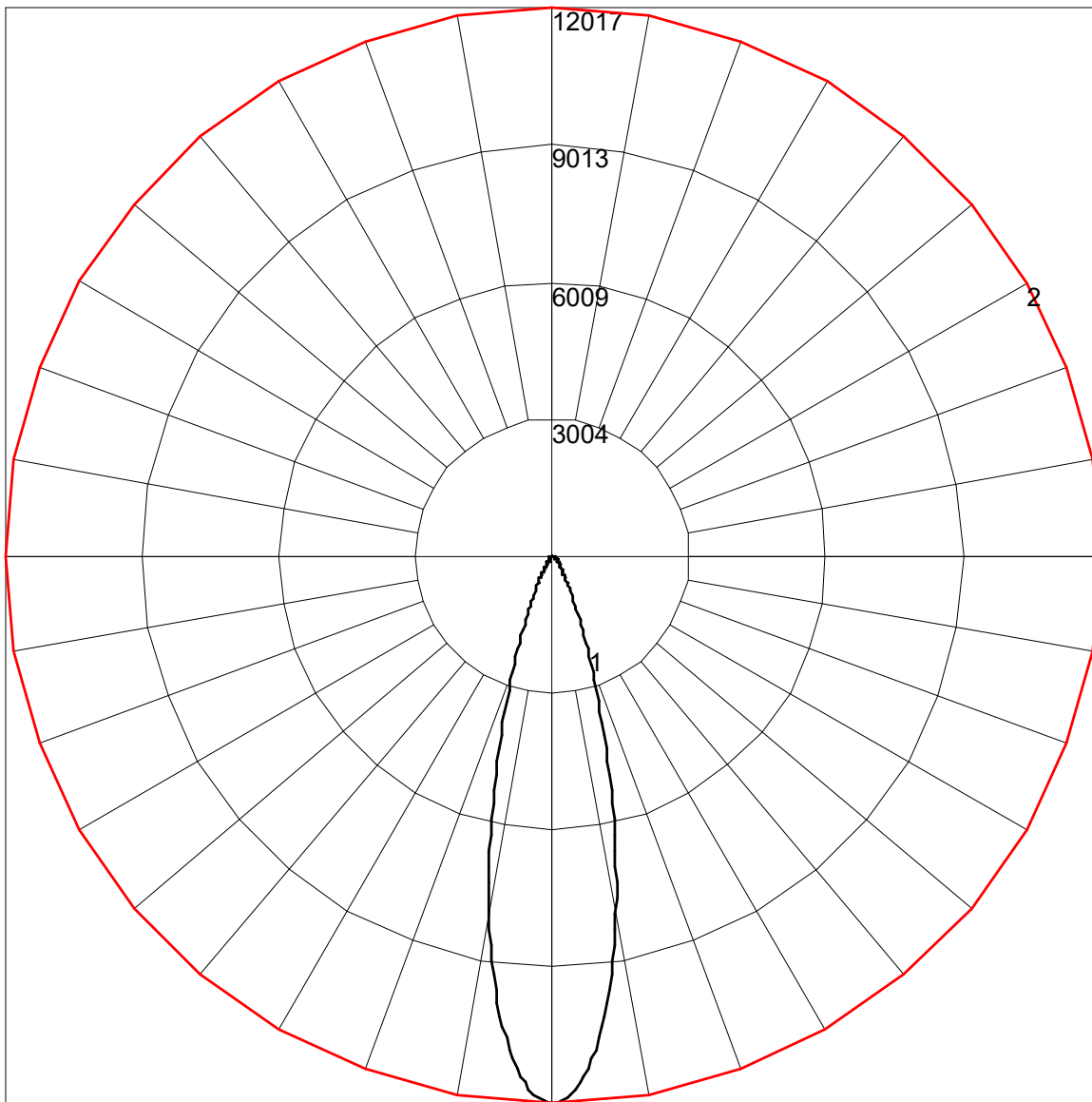
4H	2H	9.3	10.1	9.7	10.4	10.8	9.3	10.1	9.7	10.4	10.8
	3H	10.9	11.5	11.3	11.9	12.3	10.9	11.5	11.3	11.9	12.3
	4H	11.5	12.1	11.9	12.5	12.9	11.5	12.1	11.9	12.5	12.9
	6H	11.9	12.4	12.4	12.9	13.4	11.9	12.4	12.4	12.9	13.4
	8H	12.1	12.5	12.5	13.0	13.5	12.1	12.5	12.5	13.0	13.5
	12H	12.1	12.5	12.6	13.0	13.5	12.1	12.5	12.6	13.0	13.5

8H	4H	11.6	12.1	12.1	12.6	13.0	11.6	12.1	12.1	12.6	13.0
	6H	12.2	12.6	12.7	13.1	13.6	12.2	12.6	12.7	13.1	13.6
	8H	12.4	12.7	13.0	13.3	13.8	12.4	12.7	13.0	13.3	13.8
	12H	12.5	12.8	13.1	13.3	13.9	12.5	12.8	13.1	13.3	13.9

12H	4H	11.6	12.0	12.1	12.5	13.0	11.6	12.0	12.1	12.5	13.0
	6H	12.2	12.6	12.8	13.0	13.6	12.2	12.6	12.8	13.0	13.6
	8H	12.5	12.7	13.0	13.2	13.8	12.5	12.7	13.0	13.2	13.8

Maximum UGR = 13.9

POLAR GRAPH



Maximum Candela = 12017.25 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.)