



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P27-835-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-P27-835-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	1782
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	34
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	6406	6406	6406
55	4307	4307	4307
65	3205	3205	3205
75	2213	2213	2213
85	1849	1849	1849

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CANDELA TABULATION

	<u>0</u>
0.0	4313.0
0.5	4311.0
1.0	4305.0
1.5	4295.0
2.0	4281.0
2.5	4264.0
3.0	4243.0
3.5	4219.0
4.0	4193.0
4.5	4163.0
5.0	4131.0
5.5	4096.0
6.0	4057.0
6.5	4014.0
7.0	3968.0
7.5	3918.0
8.0	3864.0
8.5	3806.0
9.0	3744.0
9.5	3677.0
10.0	3607.0
10.5	3532.0
11.0	3452.0
11.5	3368.0
12.0	3280.0
12.5	3186.0
13.0	3090.0
13.5	2989.0
14.0	2885.0
14.5	2779.0
15.0	2669.0
15.5	2559.0
16.0	2447.0
16.5	2335.0
17.0	2225.0
17.5	2120.0
18.0	2012.0
18.5	1905.0
19.0	1800.0
19.5	1700.0
20.0	1605.0
20.5	1513.0
21.0	1423.0
21.5	1337.0
22.0	1254.0
22.5	1176.0
23.0	1102.0
23.5	1032.0
24.0	966.2
24.5	904.5
25.0	846.4
25.5	791.9
26.0	741.0
26.5	693.2

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	648.7
<b>27.5</b>	607.1
<b>28.0</b>	568.1
<b>28.5</b>	531.9
<b>29.0</b>	497.9
<b>29.5</b>	466.1
<b>30.0</b>	436.2
<b>30.5</b>	408.3
<b>31.0</b>	382.2
<b>31.5</b>	357.7
<b>32.0</b>	334.8
<b>32.5</b>	313.3
<b>33.0</b>	293.1
<b>33.5</b>	274.2
<b>34.0</b>	256.4
<b>34.5</b>	239.9
<b>35.0</b>	224.5
<b>35.5</b>	210.1
<b>36.0</b>	196.7
<b>36.5</b>	184.3
<b>37.0</b>	172.8
<b>37.5</b>	162.2
<b>38.0</b>	152.4
<b>38.5</b>	143.4
<b>39.0</b>	135.1
<b>39.5</b>	127.5
<b>40.0</b>	120.6
<b>40.5</b>	114.3
<b>41.0</b>	108.5
<b>41.5</b>	103.2
<b>42.0</b>	98.3
<b>42.5</b>	93.8
<b>43.0</b>	89.6
<b>43.5</b>	85.8
<b>44.0</b>	82.2
<b>44.5</b>	79.0
<b>45.0</b>	75.9
<b>45.5</b>	73.1
<b>46.0</b>	70.4
<b>46.5</b>	67.9
<b>47.0</b>	65.6
<b>47.5</b>	63.5
<b>48.0</b>	61.5
<b>48.5</b>	59.6
<b>49.0</b>	57.8
<b>49.5</b>	56.0
<b>50.0</b>	54.4
<b>50.5</b>	52.9
<b>51.0</b>	51.4
<b>51.5</b>	50.0
<b>52.0</b>	48.7
<b>52.5</b>	47.3
<b>53.0</b>	46.1
<b>53.5</b>	44.9
<b>54.0</b>	43.7
<b>54.5</b>	42.5

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CANDELA TABULATION - (Cont.)

55.0	41.4
55.5	40.3
56.0	39.3
56.5	38.2
57.0	37.2
57.5	36.2
58.0	35.2
58.5	34.2
59.0	33.3
59.5	32.3
60.0	31.4
60.5	30.5
61.0	29.6
61.5	28.7
62.0	27.8
62.5	26.9
63.0	26.1
63.5	25.2
64.0	24.4
64.5	23.5
65.0	22.7
65.5	21.9
66.0	21.1
66.5	20.3
67.0	19.5
67.5	18.8
68.0	18.0
68.5	17.3
69.0	16.6
69.5	15.8
70.0	15.2
70.5	14.5
71.0	13.9
71.5	13.2
72.0	12.6
72.5	12.0
73.0	11.5
73.5	11.0
74.0	10.5
74.5	10.0
75.0	9.6
75.5	9.1
76.0	8.7
76.5	8.4
77.0	8.0
77.5	7.6
78.0	7.3
78.5	6.9
79.0	6.6
79.5	6.3
80.0	5.9
80.5	5.6
81.0	5.2
81.5	4.9
82.0	4.6
82.5	4.3

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CANDELA TABULATION - (Cont.)

83.0	4.0
83.5	3.6
84.0	3.3
84.5	3.0
85.0	2.7
85.5	2.4
86.0	2.2
86.5	1.9
87.0	1.6
87.5	1.3
88.0	1.0
88.5	0.8
89.0	0.7
89.5	0.5
90.0	0.4
90.5	0.0
91.0	0.0
91.5	0.0
92.0	0.0
92.5	0.0
93.0	0.0
93.5	0.0
94.0	0.0
94.5	0.0
95.0	0.0
95.5	0.0
96.0	0.0
96.5	0.0
97.0	0.0
97.5	0.0
98.0	0.0
98.5	0.0
99.0	0.0
99.5	0.0
100.0	0.0
100.5	0.0
101.0	0.0
101.5	0.0
102.0	0.0
102.5	0.0
103.0	0.0
103.5	0.0
104.0	0.0
104.5	0.0
105.0	0.0
105.5	0.0
106.0	0.0
106.5	0.0
107.0	0.0
107.5	0.0
108.0	0.0
108.5	0.0
109.0	0.0
109.5	0.0
110.0	0.0
110.5	0.0

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CANDELA TABULATION - (Cont.)

111.0	0.0
111.5	0.0
112.0	0.0
112.5	0.0
113.0	0.0
113.5	0.0
114.0	0.0
114.5	0.0
115.0	0.0
115.5	0.0
116.0	0.0
116.5	0.0
117.0	0.0
117.5	0.0
118.0	0.0
118.5	0.0
119.0	0.0
119.5	0.0
120.0	0.0
120.5	0.0
121.0	0.0
121.5	0.0
122.0	0.0
122.5	0.0
123.0	0.0
123.5	0.0
124.0	0.0
124.5	0.0
125.0	0.0
125.5	0.0
126.0	0.0
126.5	0.0
127.0	0.0
127.5	0.0
128.0	0.0
128.5	0.0
129.0	0.0
129.5	0.0
130.0	0.0
130.5	0.0
131.0	0.0
131.5	0.0
132.0	0.0
132.5	0.0
133.0	0.0
133.5	0.0
134.0	0.0
134.5	0.0
135.0	0.0
135.5	0.0
136.0	0.0
136.5	0.0
137.0	0.0
137.5	0.0
138.0	0.0
138.5	0.0

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CANDELA TABULATION - (Cont.)

139.0	0.0
139.5	0.0
140.0	0.0
140.5	0.0
141.0	0.0
141.5	0.0
142.0	0.0
142.5	0.0
143.0	0.0
143.5	0.0
144.0	0.0
144.5	0.0
145.0	0.0
145.5	0.0
146.0	0.0
146.5	0.0
147.0	0.0
147.5	0.0
148.0	0.0
148.5	0.0
149.0	0.0
149.5	0.0
150.0	0.0
150.5	0.0
151.0	0.0
151.5	0.0
152.0	0.0
152.5	0.0
153.0	0.0
153.5	0.0
154.0	0.0
154.5	0.0
155.0	0.0
155.5	0.0
156.0	0.0
156.5	0.0
157.0	0.0
157.5	0.0
158.0	0.0
158.5	0.0
159.0	0.0
159.5	0.0
160.0	0.0
160.5	0.0
161.0	0.0
161.5	0.0
162.0	0.0
162.5	0.0
163.0	0.0
163.5	0.0
164.0	0.0
164.5	0.0
165.0	0.0
165.5	0.0
166.0	0.0
166.5	0.0

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CANDELA TABULATION - (Cont.)

167.0	0.0
167.5	0.0
168.0	0.0
168.5	0.0
169.0	0.0
169.5	0.0
170.0	0.0
170.5	0.0
171.0	0.0
171.5	0.0
172.0	0.0
172.5	0.0
173.0	0.0
173.5	0.0
174.0	0.0
174.5	0.0
175.0	0.0
175.5	0.0
176.0	0.0
176.5	0.0
177.0	0.0
177.5	0.0
178.0	0.0
178.5	0.0
179.0	0.0
179.5	0.0
180.0	0.0



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1096.46	N.A.	61.50
0-30	1499.17	N.A.	84.10
0-40	1647.4	N.A.	92.40
0-60	1745.78	N.A.	98.00
0-80	1778.85	N.A.	99.80
0-90	1781.93	N.A.	100.00
10-90	1403.98	N.A.	78.80
20-40	550.94	N.A.	30.90
20-50	611.94	N.A.	34.30
40-70	121.00	N.A.	6.80
60-80	33.07	N.A.	1.90
70-80	10.45	N.A.	0.60
80-90	3.09	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	1781.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	377.95
10-20	718.50
20-30	402.72
30-40	148.23
40-50	60.99
50-60	37.38
60-70	22.62
70-80	10.45
80-90	3.09
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	186	186	186	186	181	181	181	181	173	173	173	166	166	166	159	159	159	156
1	178	174	170	167	174	171	167	164	164	162	159	158	156	155	153	152	150	147
2	170	163	158	153	167	161	156	151	156	151	148	151	148	145	147	144	142	139
3	163	154	147	142	160	152	146	141	148	143	138	144	140	136	141	137	134	132
4	156	146	138	133	154	144	137	132	141	135	130	138	133	129	135	131	127	125
5	150	139	131	125	148	137	130	124	135	128	123	132	127	122	130	125	121	119
6	144	132	124	118	142	131	123	118	129	122	117	127	121	116	125	120	116	114
7	139	126	118	113	137	125	118	112	123	117	112	122	116	111	120	115	111	109
8	134	121	113	107	132	120	112	107	118	112	107	117	111	106	116	110	106	104
9	129	116	108	103	127	115	108	103	114	107	102	113	106	102	111	106	102	100
10	124	111	104	99	123	111	103	99	110	103	98	109	102	98	108	102	98	96

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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

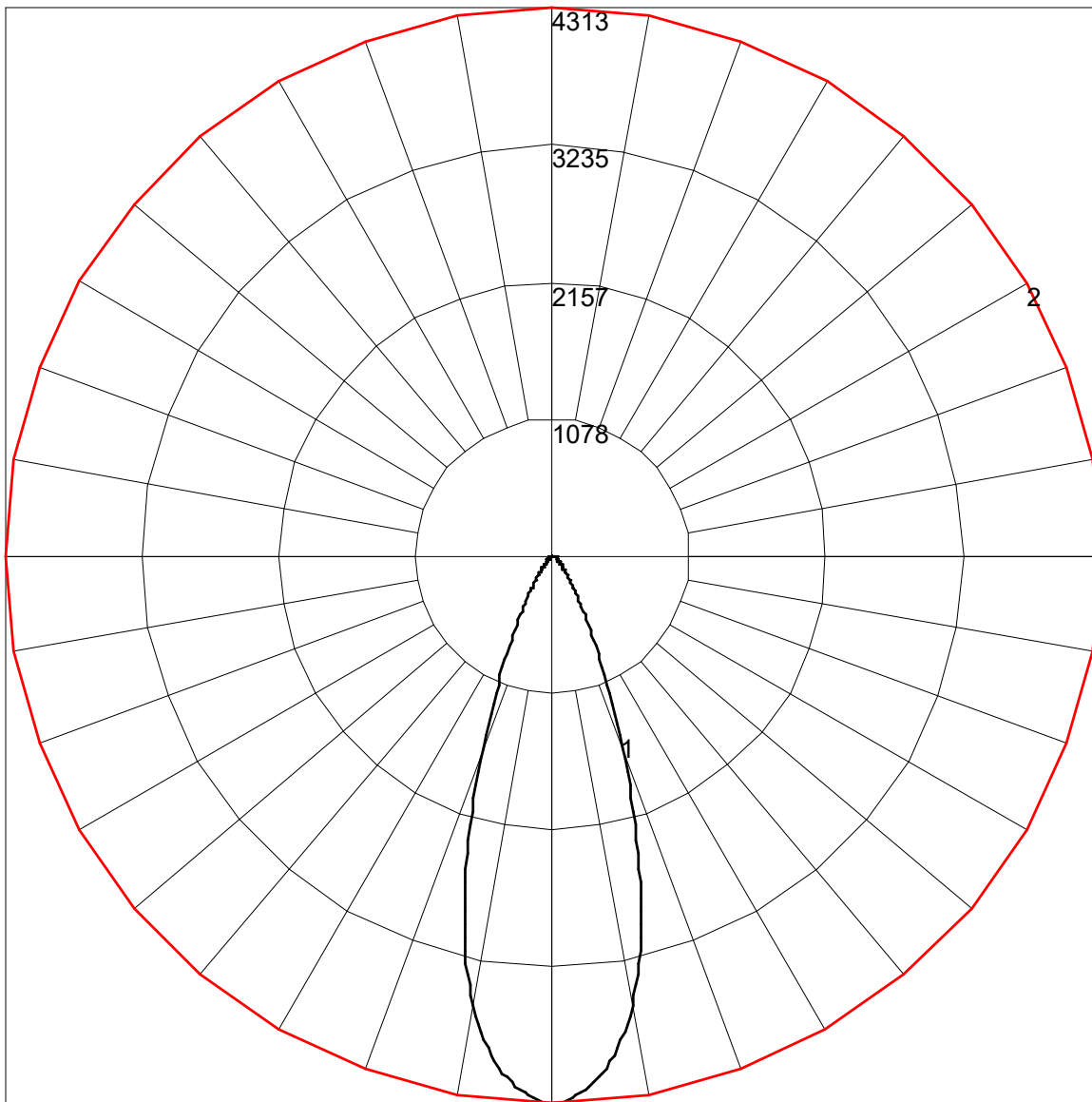
4H	2H	8.4	9.2	8.8	9.6	10.0	8.4	9.2	8.8	9.6	10.0
	3H	9.7	10.3	10.1	10.8	11.2	9.7	10.3	10.1	10.8	11.2
	4H	10.1	10.7	10.5	11.1	11.6	10.1	10.7	10.5	11.1	11.6
	6H	10.4	10.9	10.9	11.4	11.9	10.4	10.9	10.9	11.4	11.9
	8H	10.6	11.0	11.0	11.5	11.9	10.6	11.0	11.0	11.5	11.9
	12H	10.6	11.0	11.1	11.5	12.0	10.6	11.0	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 = 4313 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.)