



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P20-835-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.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P20-835-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	2333
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	23.2
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	8776	8776	8776
55	6422	6422	6422
65	5222	5222	5222
75	4263	4263	4263
85	2761	2761	2761

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CANDELA TABULATION

	<u>0</u>
0.0	8727.957
0.5	8720.331
1.0	8694.911
1.5	8650.426
2.0	8589.418
2.5	8511.887
3.0	8419.104
3.5	8309.798
4.0	8185.240
4.5	8047.972
5.0	7899.265
5.5	7736.577
6.0	7561.179
6.5	7374.342
7.0	7176.066
7.5	6967.622
8.0	6747.739
8.5	6521.501
9.0	6290.179
9.5	6051.231
10.0	5809.741
10.5	5564.438
11.0	5315.322
11.5	5064.935
12.0	4814.548
12.5	4566.703
13.0	4321.400
13.5	4079.910
14.0	3843.504
14.5	3613.453
15.0	3392.299
15.5	3180.042
16.0	2977.953
16.5	2786.032
17.0	2603.008
17.5	2428.881
18.0	2264.922
18.5	2112.402
19.0	1968.779
19.5	1835.324
20.0	1708.224
20.5	1587.479
21.0	1475.631
21.5	1371.409
22.0	1272.271
22.5	1180.378
23.0	1094.204
23.5	1014.385
24.0	939.650
24.5	870.381
25.0	806.322
25.5	746.967
26.0	692.060
26.5	641.474

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**CANDELA TABULATION - (Cont.)**

27.0	595.082
27.5	552.377
28.0	513.230
28.5	477.515
29.0	444.596
29.5	414.346
30.0	386.638
30.5	361.345
31.0	338.086
31.5	316.860
32.0	297.287
32.5	279.366
33.0	262.843
33.5	247.718
34.0	233.737
34.5	221.027
35.0	209.207
35.5	198.403
36.0	188.489
36.5	179.211
37.0	170.822
37.5	163.069
38.0	155.952
38.5	149.215
39.0	143.115
39.5	137.395
40.0	132.184
40.5	127.227
41.0	122.779
41.5	118.457
42.0	114.517
42.5	110.831
43.0	107.272
43.5	103.968
44.0	100.790
44.5	97.867
45.0	95.071
45.5	92.402
46.0	89.860
46.5	87.318
47.0	85.030
47.5	82.742
48.0	80.454
48.5	78.294
49.0	76.260
49.5	74.354
50.0	72.447
50.5	70.541
51.0	68.761
51.5	67.109
52.0	65.457
52.5	63.804
53.0	62.152
53.5	60.754
54.0	59.229
54.5	57.831

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CANDELA TABULATION - (Cont.)

55.0	56.432
55.5	55.034
56.0	53.636
56.5	52.365
57.0	51.094
57.5	49.950
58.0	48.679
58.5	47.535
59.0	46.392
59.5	45.121
60.0	44.104
60.5	42.960
61.0	41.816
61.5	40.799
62.0	39.782
62.5	38.766
63.0	37.749
63.5	36.732
64.0	35.715
64.5	34.698
65.0	33.809
65.5	32.792
66.0	31.902
66.5	30.885
67.0	29.996
67.5	29.106
68.0	28.216
68.5	27.327
69.0	26.437
69.5	25.547
70.0	24.657
70.5	23.895
71.0	23.005
71.5	22.243
72.0	21.480
72.5	20.590
73.0	19.828
73.5	19.065
74.0	18.302
74.5	17.540
75.0	16.904
75.5	16.142
76.0	15.379
76.5	14.617
77.0	13.981
77.5	13.218
78.0	12.583
78.5	11.947
79.0	11.185
79.5	10.549
80.0	9.914
80.5	9.278
81.0	8.643
81.5	8.007
82.0	7.372
82.5	6.736

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CANDELA TABULATION - (Cont.)

83.0	6.101
83.5	5.465
84.0	4.957
84.5	4.321
85.0	3.686
85.5	3.178
86.0	2.669
86.5	2.161
87.0	1.779
87.5	1.398
88.0	1.017
88.5	0.763
89.0	0.636
89.5	0.381
90.0	0.254
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
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103.0	0.000
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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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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  
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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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154.0	0.000
154.5	0.000
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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	1620.72	N.A.	69.50
0-30	2012.65	N.A.	86.30
0-40	2151.21	N.A.	92.20
0-60	2276.87	N.A.	97.60
0-80	2328.37	N.A.	99.80
0-90	2332.92	N.A.	100.00
10-90	1646.91	N.A.	70.60
20-40	530.49	N.A.	22.70
20-50	605.26	N.A.	25.90
40-70	159.25	N.A.	6.80
60-80	51.50	N.A.	2.20
70-80	17.91	N.A.	0.80
80-90	4.55	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	2332.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	686.02
10-20	934.71
20-30	391.93
30-40	138.57
40-50	74.77
50-60	50.89
60-70	33.59
70-80	17.91
80-90	4.55
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	87	86
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	78	74	72	71
9	86	78	73	70	85	78	73	70	77	73	70	76	72	70	75	72	69	68
10	83	75	71	68	82	75	71	68	74	70	68	74	70	67	73	70	67	66

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**UGR TABLE - CORRECTED**

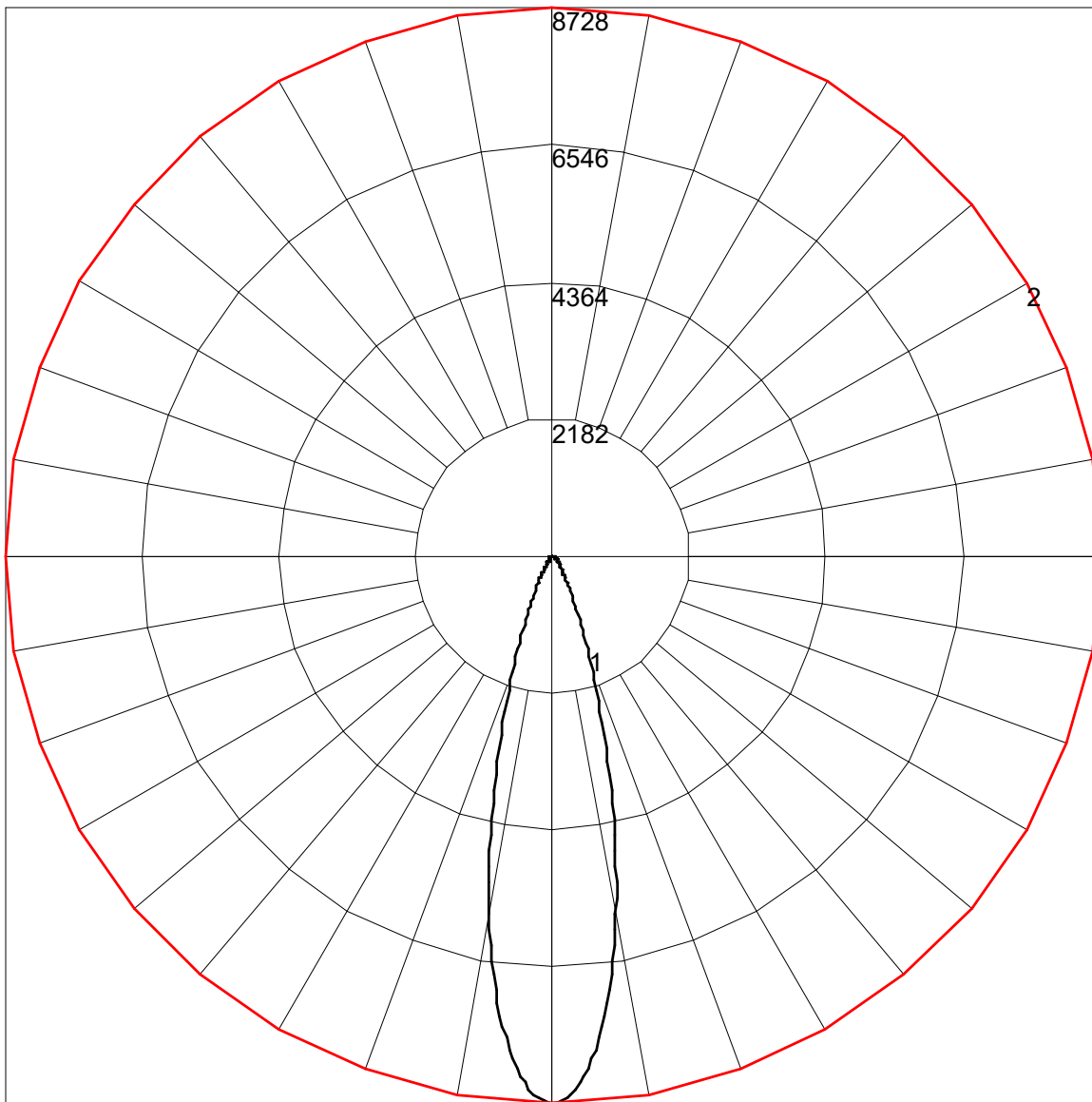
Reflectances

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	11.3	12.3	11.6	12.6	12.9	11.3	12.3	11.6	12.6	12.9
	3H	12.7	13.5	13.1	13.9	14.2	12.7	13.5	13.1	13.9	14.2
	4H	13.2	14.0	13.6	14.3	14.7	13.2	14.0	13.6	14.3	14.7
	6H	13.5	14.2	13.9	14.6	15.0	13.5	14.2	13.9	14.6	15.0
	8H	13.6	14.3	14.0	14.7	15.1	13.6	14.3	14.0	14.7	15.1
	12H	13.6	14.3	14.1	14.7	15.1	13.6	14.3	14.1	14.7	15.1
4H	2H	11.7	12.5	12.1	12.8	13.2	11.7	12.5	12.1	12.8	13.2
	3H	13.3	13.9	13.7	14.3	14.7	13.3	13.9	13.7	14.3	14.7
	4H	13.9	14.5	14.3	14.9	15.3	13.9	14.5	14.3	14.9	15.3
	6H	14.3	14.8	14.8	15.3	15.8	14.3	14.8	14.8	15.3	15.8
	8H	14.5	14.9	14.9	15.4	15.9	14.5	14.9	14.9	15.4	15.9
	12H	14.5	14.9	15.0	15.4	15.9	14.5	14.9	15.0	15.4	15.9
8H	4H	14.0	14.5	14.5	15.0	15.4	14.0	14.5	14.5	15.0	15.4
	6H	14.6	15.0	15.1	15.5	16.0	14.6	15.0	15.1	15.5	16.0
	8H	14.8	15.1	15.4	15.7	16.2	14.8	15.1	15.4	15.7	16.2
	12H	14.9	15.2	15.5	15.7	16.3	14.9	15.2	15.5	15.7	16.3
12H	4H	14.0	14.4	14.5	14.9	15.4	14.0	14.4	14.5	14.9	15.4
	6H	14.6	15.0	15.2	15.4	16.0	14.6	15.0	15.2	15.4	16.0
	8H	14.9	15.2	15.4	15.6	16.2	14.9	15.2	15.4	15.6	16.2

Maximum UGR = 16.3

POLAR GRAPH



Maximum Candela = 8727.957 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.)