



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P10-835-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-P10-835-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	1142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	11.5
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	4105	4105	4105
55	2760	2760	2760
65	2054	2054	2054
75	1418	1418	1418
85	1185	1185	1185

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CANDELA TABULATION

	<u>0</u>
0.0	2763.902
0.5	2762.620
1.0	2758.775
1.5	2752.367
2.0	2743.395
2.5	2732.501
3.0	2719.043
3.5	2703.663
4.0	2687.002
4.5	2667.777
5.0	2647.270
5.5	2624.841
6.0	2599.849
6.5	2572.293
7.0	2542.815
7.5	2510.773
8.0	2476.169
8.5	2439.000
9.0	2399.269
9.5	2356.333
10.0	2311.475
10.5	2263.413
11.0	2212.147
11.5	2158.317
12.0	2101.924
12.5	2041.686
13.0	1980.166
13.5	1915.442
14.0	1848.796
14.5	1780.868
15.0	1710.376
15.5	1639.885
16.0	1568.112
16.5	1496.339
17.0	1425.848
17.5	1358.560
18.0	1289.351
18.5	1220.782
19.0	1153.495
19.5	1089.412
20.0	1028.533
20.5	969.576
21.0	911.902
21.5	856.790
22.0	803.601
22.5	753.617
23.0	706.195
23.5	661.337
24.0	619.170
24.5	579.631
25.0	542.399
25.5	507.474
26.0	474.855
26.5	444.224

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CANDELA TABULATION - (Cont.)

27.0	415.707
27.5	389.048
28.0	364.056
28.5	340.858
29.0	319.069
29.5	298.691
30.0	279.530
30.5	261.651
31.0	244.925
31.5	229.225
32.0	214.550
32.5	200.772
33.0	187.827
33.5	175.716
34.0	164.309
34.5	153.735
35.0	143.866
35.5	134.638
36.0	126.051
36.5	118.105
37.0	110.735
37.5	103.943
38.0	97.663
38.5	91.895
39.0	86.576
39.5	81.706
40.0	77.284
40.5	73.247
41.0	69.530
41.5	66.134
42.0	62.994
42.5	60.110
43.0	57.418
43.5	54.983
44.0	52.676
44.5	50.626
45.0	48.639
45.5	46.845
46.0	45.114
46.5	43.512
47.0	42.038
47.5	40.693
48.0	39.411
48.5	38.193
49.0	37.040
49.5	35.887
50.0	34.861
50.5	33.900
51.0	32.939
51.5	32.042
52.0	31.208
52.5	30.311
53.0	29.542
53.5	28.773
54.0	28.004
54.5	27.235

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CANDELA TABULATION - (Cont.)

55.0	26.530
55.5	25.825
56.0	25.185
56.5	24.480
57.0	23.839
57.5	23.198
58.0	22.557
58.5	21.916
59.0	21.340
59.5	20.699
60.0	20.122
60.5	19.545
61.0	18.969
61.5	18.392
62.0	17.815
62.5	17.238
63.0	16.726
63.5	16.149
64.0	15.636
64.5	15.060
65.0	14.547
65.5	14.034
66.0	13.522
66.5	13.009
67.0	12.496
67.5	12.048
68.0	11.535
68.5	11.086
69.0	10.638
69.5	10.125
70.0	9.741
70.5	9.292
71.0	8.908
71.5	8.459
72.0	8.074
72.5	7.690
73.0	7.370
73.5	7.049
74.0	6.729
74.5	6.408
75.0	6.152
75.5	5.832
76.0	5.575
76.5	5.383
77.0	5.127
77.5	4.870
78.0	4.678
78.5	4.422
79.0	4.229
79.5	4.037
80.0	3.781
80.5	3.589
81.0	3.332
81.5	3.140
82.0	2.948
82.5	2.756

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CANDELA TABULATION - (Cont.)

83.0	2.563
83.5	2.307
84.0	2.115
84.5	1.922
85.0	1.730
85.5	1.538
86.0	1.410
86.5	1.218
87.0	1.025
87.5	0.833
88.0	0.641
88.5	0.513
89.0	0.449
89.5	0.320
90.0	0.256
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
118.0	0.000
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125.5	0.000
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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
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146.5	0.000
147.0	0.000
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151.0	0.000
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153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
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155.5	0.000
156.0	0.000
156.5	0.000
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157.5	0.000
158.0	0.000
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	702.64	N.A.	61.50
0-30	960.72	N.A.	84.10
0-40	1055.7	N.A.	92.40
0-60	1118.75	N.A.	98.00
0-80	1139.94	N.A.	99.80
0-90	1141.92	N.A.	100.00
10-90	899.71	N.A.	78.80
20-40	353.06	N.A.	30.90
20-50	392.15	N.A.	34.30
40-70	77.54	N.A.	6.80
60-80	21.19	N.A.	1.90
70-80	6.70	N.A.	0.60
80-90	1.98	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	1141.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	242.20
10-20	460.44
20-30	258.07
30-40	94.99
40-50	39.08
50-60	23.96
60-70	14.50
70-80	6.70
80-90	1.98
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	101	101	101	101	99	99	99	99	94	94	94	90	90	90	87	87	87	85
1	97	95	93	91	95	93	91	90	89	88	87	86	85	84	83	83	82	80
2	93	89	86	83	91	87	85	82	85	82	80	82	80	79	80	78	77	76
3	89	84	80	77	87	83	79	77	81	78	75	79	76	74	77	75	73	72
4	85	79	75	72	84	79	75	72	77	73	71	75	72	70	74	71	69	68
5	82	76	71	68	80	75	71	68	73	70	67	72	69	67	71	68	66	65
6	79	72	68	64	77	71	67	64	70	66	64	69	66	63	68	65	63	62
7	76	69	64	61	74	68	64	61	67	63	61	66	63	60	65	62	60	59
8	73	66	61	58	72	65	61	58	65	61	58	64	60	58	63	60	58	57
9	70	63	59	56	69	63	59	56	62	58	56	61	58	56	61	58	55	54
10	68	61	57	54	67	60	56	54	60	56	54	59	56	53	59	55	53	52

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UGR TABLE - CORRECTED

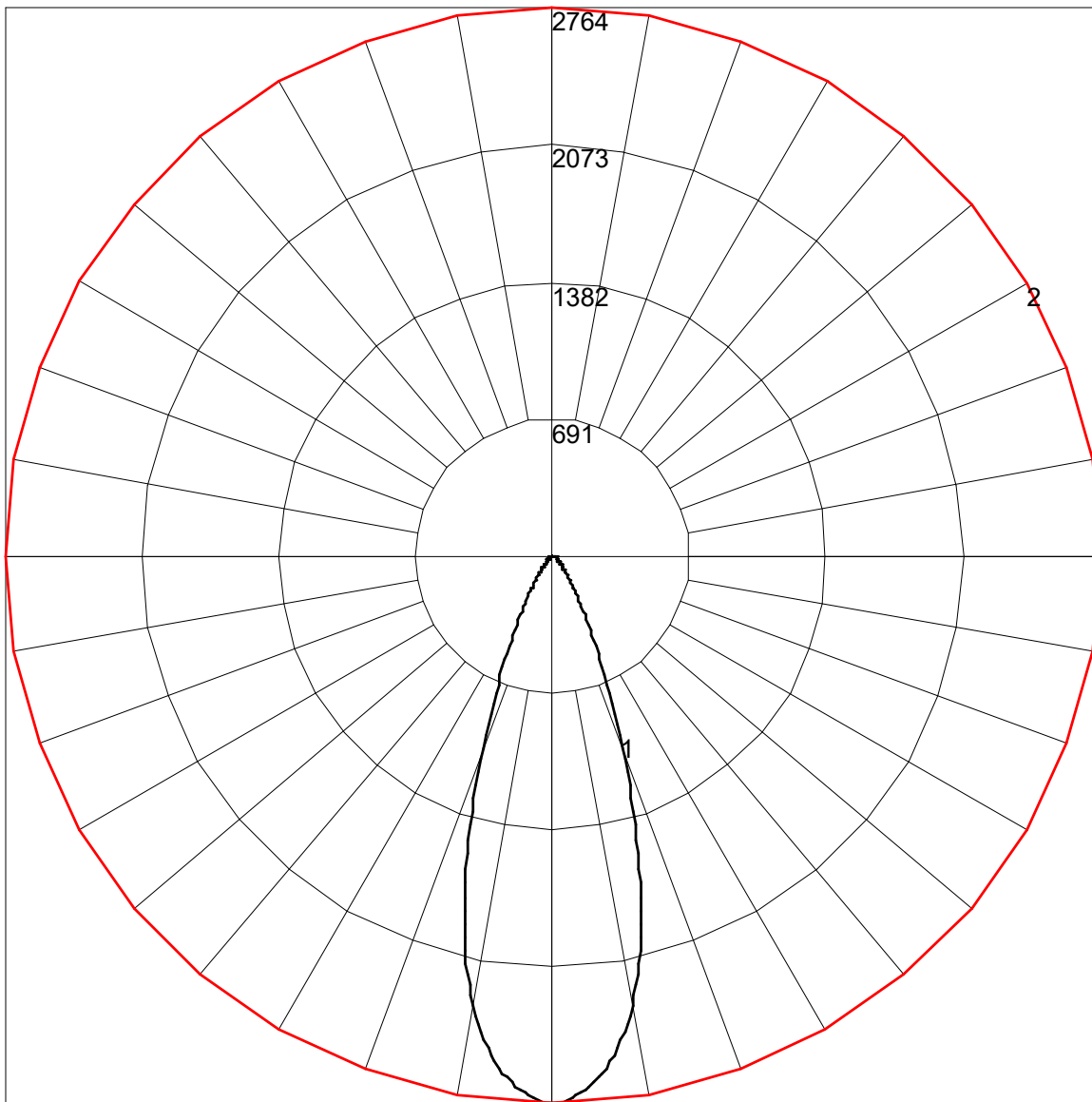
Reflectances

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	8.7	9.7	9.1	10.0	10.3	8.7	9.7	9.1	10.0	10.3
	3H	9.8	10.7	10.2	11.0	11.4	9.8	10.7	10.2	11.0	11.4
	4H	10.1	10.9	10.5	11.3	11.7	10.1	10.9	10.5	11.3	11.7
	6H	10.3	11.1	10.8	11.5	11.9	10.3	11.1	10.8	11.5	11.9
	8H	10.4	11.1	10.9	11.5	11.9	10.4	11.1	10.9	11.5	11.9
	12H	10.5	11.1	10.9	11.5	11.9	10.5	11.1	10.9	11.5	11.9
4H	2H	9.0	9.8	9.4	10.2	10.6	9.0	9.8	9.4	10.2	10.6
	3H	10.3	10.9	10.7	11.4	11.8	10.3	10.9	10.7	11.4	11.8
	4H	10.7	11.3	11.1	11.7	12.1	10.7	11.3	11.1	11.7	12.1
	6H	11.0	11.5	11.5	12.0	12.5	11.0	11.5	11.5	12.0	12.5
	8H	11.2	11.6	11.6	12.1	12.5	11.2	11.6	11.6	12.1	12.5
	12H	11.2	11.6	11.7	12.1	12.6	11.2	11.6	11.7	12.1	12.6
8H	4H	10.8	11.2	11.3	11.7	12.2	10.8	11.2	11.3	11.7	12.2
	6H	11.2	11.6	11.8	12.1	12.6	11.2	11.6	11.8	12.1	12.6
	8H	11.4	11.7	12.0	12.3	12.8	11.4	11.7	12.0	12.3	12.8
	12H	11.6	11.8	12.1	12.3	12.9	11.6	11.8	12.1	12.3	12.9
12H	4H	10.8	11.2	11.3	11.6	12.1	10.8	11.2	11.3	11.6	12.1
	6H	11.2	11.6	11.8	12.0	12.6	11.2	11.6	11.8	12.0	12.6
	8H	11.5	11.7	12.0	12.2	12.8	11.5	11.7	12.0	12.2	12.8

Maximum UGR = 12.9

POLAR GRAPH



Maximum Candela = 2763.902 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.)