



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P10-835-POE-LN-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.10

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P10-835-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	1162
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	11.5
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	4371	4371	4371
55	3198	3198	3198
65	2601	2601	2601
75	2123	2123	2123
85	1375	1375	1375

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CANDELA TABULATION

	<u>0</u>
0.0	4346.811
0.5	4343.013
1.0	4330.353
1.5	4308.198
2.0	4277.814
2.5	4239.201
3.0	4192.992
3.5	4138.554
4.0	4076.520
4.5	4008.156
5.0	3934.095
5.5	3853.071
6.0	3765.717
6.5	3672.666
7.0	3573.918
7.5	3470.106
8.0	3360.597
8.5	3247.923
9.0	3132.717
9.5	3013.713
10.0	2893.443
10.5	2771.274
11.0	2647.206
11.5	2522.505
12.0	2397.804
12.5	2274.369
13.0	2152.200
13.5	2031.930
14.0	1914.192
14.5	1799.619
15.0	1689.477
15.5	1583.766
16.0	1483.119
16.5	1387.536
17.0	1296.384
17.5	1209.663
18.0	1128.006
18.5	1052.046
19.0	980.517
19.5	914.052
20.0	850.752
20.5	790.617
21.0	734.913
21.5	683.007
22.0	633.633
22.5	587.867
23.0	544.950
23.5	505.197
24.0	467.977
24.5	433.478
25.0	401.575
25.5	372.014
26.0	344.669
26.5	319.475

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-LN-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	296.371
27.5	275.102
28.0	255.605
28.5	237.818
29.0	221.423
29.5	206.358
30.0	192.559
30.5	179.962
31.0	168.378
31.5	157.807
32.0	148.059
32.5	139.133
33.0	130.904
33.5	123.372
34.0	116.409
34.5	110.079
35.0	104.192
35.5	98.811
36.0	93.874
36.5	89.253
37.0	85.075
37.5	81.214
38.0	77.669
38.5	74.314
39.0	71.276
39.5	68.427
40.0	65.832
40.5	63.363
41.0	61.148
41.5	58.996
42.0	57.033
42.5	55.198
43.0	53.425
43.5	51.779
44.0	50.197
44.5	48.741
45.0	47.348
45.5	46.019
46.0	44.753
46.5	43.487
47.0	42.348
47.5	41.208
48.0	40.069
48.5	38.993
49.0	37.980
49.5	37.031
50.0	36.081
50.5	35.132
51.0	34.245
51.5	33.422
52.0	32.600
52.5	31.777
53.0	30.954
53.5	30.257
54.0	29.498
54.5	28.802

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PHOTOMETRIC FILENAME : V6DR-P10-835-POE-LN-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	28.105
55.5	27.409
56.0	26.713
56.5	26.080
57.0	25.447
57.5	24.877
58.0	24.244
58.5	23.674
59.0	23.105
59.5	22.472
60.0	21.965
60.5	21.395
61.0	20.826
61.5	20.319
62.0	19.813
62.5	19.307
63.0	18.800
63.5	18.294
64.0	17.787
64.5	17.281
65.0	16.838
65.5	16.331
66.0	15.888
66.5	15.382
67.0	14.939
67.5	14.496
68.0	14.053
68.5	13.610
69.0	13.166
69.5	12.723
70.0	12.280
70.5	11.900
71.0	11.457
71.5	11.078
72.0	10.698
72.5	10.255
73.0	9.875
73.5	9.495
74.0	9.115
74.5	8.735
75.0	8.419
75.5	8.039
76.0	7.659
76.5	7.280
77.0	6.963
77.5	6.583
78.0	6.267
78.5	5.950
79.0	5.570
79.5	5.254
80.0	4.937
80.5	4.621
81.0	4.304
81.5	3.988
82.0	3.671
82.5	3.355

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PHOTOMETRIC FILENAME : V6DR-P10-835-POE-LN-OF-WH_.IES

CANDELA TABULATION - (Cont.)

83.0	3.038
83.5	2.722
84.0	2.469
84.5	2.152
85.0	1.836
85.5	1.583
86.0	1.329
86.5	1.076
87.0	0.886
87.5	0.696
88.0	0.506
88.5	0.380
89.0	0.317
89.5	0.190
90.0	0.127
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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PHOTOMETRIC FILENAME : V6DR-P10-835-POE-LN-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
117.0	0.000
117.5	0.000
118.0	0.000
118.5	0.000
119.0	0.000
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129.0	0.000
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130.0	0.000
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131.5	0.000
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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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-LN-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
144.5	0.000
145.0	0.000
145.5	0.000
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
148.0	0.000
148.5	0.000
149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
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
155.0	0.000
155.5	0.000
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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	807.17	N.A.	69.50
0-30	1002.37	N.A.	86.30
0-40	1071.38	N.A.	92.20
0-60	1133.96	N.A.	97.60
0-80	1159.61	N.A.	99.80
0-90	1161.87	N.A.	100.00
10-90	820.21	N.A.	70.60
20-40	264.20	N.A.	22.70
20-50	301.44	N.A.	25.90
40-70	79.31	N.A.	6.80
60-80	25.65	N.A.	2.20
70-80	8.92	N.A.	0.80
80-90	2.26	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1161.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	341.66
10-20	465.52
20-30	195.19
30-40	69.01
40-50	37.24
50-60	25.34
60-70	16.73
70-80	8.92
80-90	2.26
90-100	0.00
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	100	100	100	100	98	98	98	98	93	93	93	89	89	89	86	86	86	84
1	96	94	92	90	94	92	90	89	89	87	86	86	85	84	83	82	81	80
2	92	89	86	83	90	87	84	82	84	82	80	82	80	79	80	78	77	76
3	88	84	80	78	87	83	80	77	81	78	76	79	76	75	77	75	73	72
4	85	80	76	73	84	79	75	73	77	74	72	76	73	71	74	72	70	69
5	82	76	72	69	81	76	72	69	74	71	69	73	70	68	72	69	67	66
6	79	73	69	66	78	73	69	66	71	68	66	70	67	65	69	67	65	64
7	77	70	66	64	76	70	66	63	69	66	63	68	65	63	67	64	62	61
8	74	68	64	61	73	67	64	61	67	63	61	66	63	61	65	62	60	59
9	72	65	62	59	71	65	61	59	64	61	59	64	61	58	63	60	58	57
10	70	63	60	57	69	63	59	57	62	59	57	62	59	57	61	59	56	56

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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	9.5	10.5	9.8	10.8	11.1	9.5	10.5	9.8	10.8	11.1
	3H	10.9	11.7	11.3	12.1	12.4	10.9	11.7	11.3	12.1	12.4
	4H	11.4	12.2	11.8	12.5	12.9	11.4	12.2	11.8	12.5	12.9
	6H	11.7	12.4	12.1	12.8	13.2	11.7	12.4	12.1	12.8	13.2
	8H	11.8	12.5	12.2	12.9	13.3	11.8	12.5	12.2	12.9	13.3
	12H	11.8	12.5	12.3	12.9	13.3	11.8	12.5	12.3	12.9	13.3

UGR Viewed Endwise

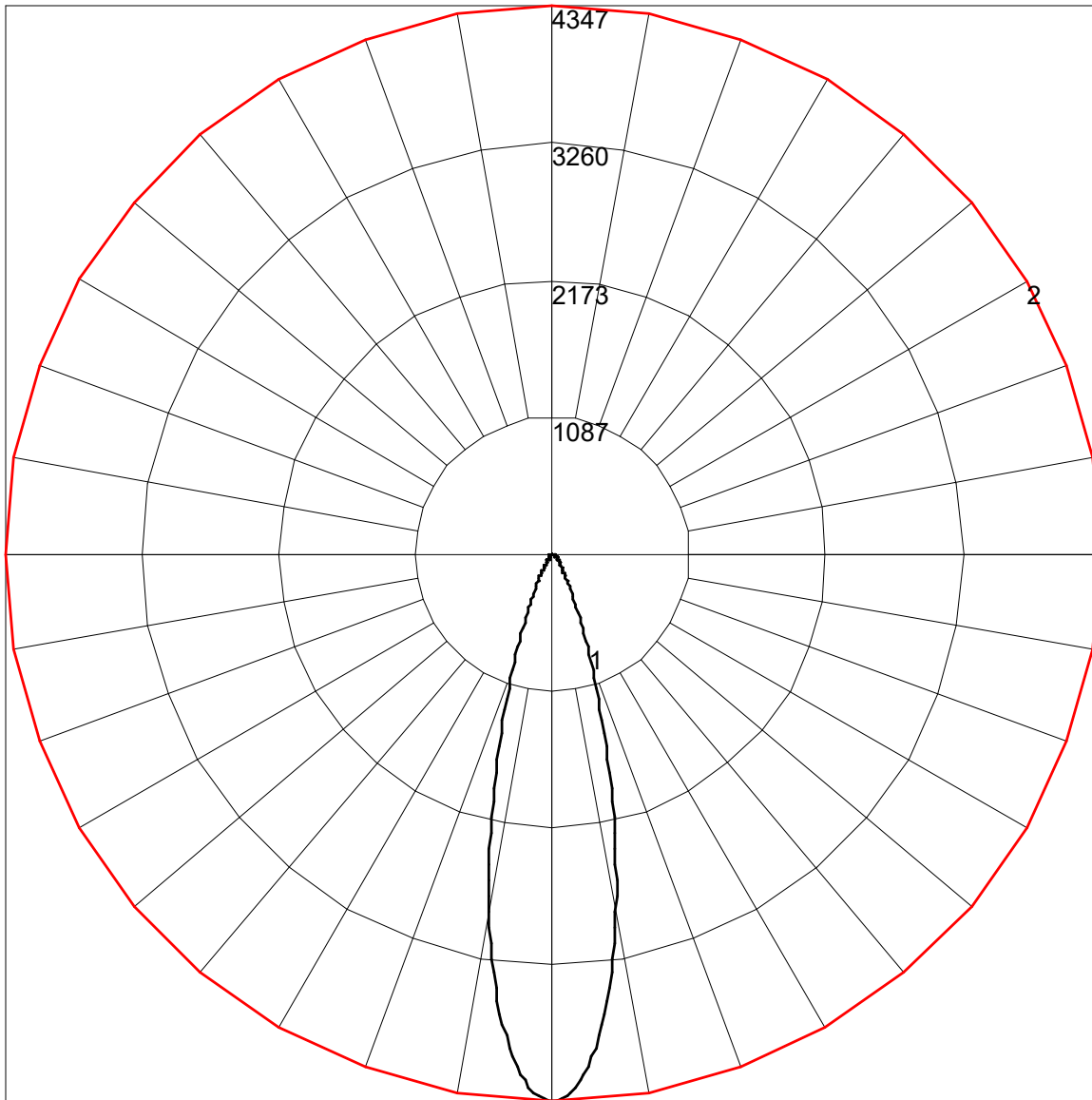
4H	2H	9.9	10.7	10.3	11.0	11.4	9.9	10.7	10.3	11.0	11.4
	3H	11.5	12.1	11.9	12.5	12.9	11.5	12.1	11.9	12.5	12.9
	4H	12.1	12.7	12.5	13.1	13.5	12.1	12.7	12.5	13.1	13.5
	6H	12.5	13.0	13.0	13.5	14.0	12.5	13.0	13.0	13.5	14.0
	8H	12.7	13.1	13.1	13.6	14.1	12.7	13.1	13.1	13.6	14.1
	12H	12.7	13.1	13.2	13.6	14.1	12.7	13.1	13.2	13.6	14.1

8H	4H	12.2	12.7	12.7	13.2	13.6	12.2	12.7	12.7	13.2	13.6
	6H	12.8	13.2	13.3	13.7	14.2	12.8	13.2	13.3	13.7	14.2
	8H	13.0	13.3	13.6	13.9	14.4	13.0	13.3	13.6	13.9	14.4
	12H	13.1	13.4	13.7	13.9	14.5	13.1	13.4	13.7	13.9	14.5

12H	4H	12.2	12.6	12.7	13.1	13.6	12.2	12.6	12.7	13.1	13.6
	6H	12.8	13.2	13.4	13.6	14.2	12.8	13.2	13.4	13.6	14.2
	8H	13.1	13.3	13.6	13.8	14.4	13.1	13.3	13.6	13.8	14.4

Maximum UGR = 14.5

POLAR GRAPH



Maximum Candela = 4346.811 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.)