



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.15

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P10-835-PoE-RN-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	1161
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)	0.46
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	3802	3802	3802
55	2487	2487	2487
65	1692	1692	1692
75	1093	1093	1093
85	878	878	878

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CANDELA TABULATION

	<u>0</u>
0.0	4312.148
0.5	4308.303
1.0	4296.127
1.5	4274.980
2.0	4245.501
2.5	4207.052
3.0	4160.912
3.5	4107.723
4.0	4048.126
4.5	3981.479
5.0	3909.065
5.5	3829.602
6.0	3743.731
6.5	3652.733
7.0	3556.609
7.5	3455.358
8.0	3349.620
8.5	3240.038
9.0	3125.971
9.5	3009.340
10.0	2889.504
10.5	2769.028
11.0	2647.270
11.5	2524.872
12.0	2403.114
12.5	2281.356
13.0	2162.162
13.5	2042.967
14.0	1927.618
14.5	1815.473
15.0	1705.891
15.5	1601.435
16.0	1502.106
16.5	1407.904
17.0	1316.906
17.5	1230.394
18.0	1148.368
18.5	1072.109
19.0	999.695
19.5	934.331
20.0	870.248
20.5	810.010
21.0	754.257
21.5	702.350
22.0	653.006
22.5	606.610
23.0	563.546
23.5	523.494
24.0	486.134
24.5	451.337
25.0	418.975
25.5	388.984
26.0	361.300
26.5	335.603

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CANDELA TABULATION - (Cont.)

27.0	311.892
27.5	290.104
28.0	270.046
28.5	251.590
29.0	234.608
29.5	219.036
30.0	204.617
30.5	191.416
31.0	179.304
31.5	168.090
32.0	157.772
32.5	148.224
33.0	139.445
33.5	131.306
34.0	123.808
34.5	116.823
35.0	110.351
35.5	104.391
36.0	98.880
36.5	93.689
37.0	88.947
37.5	84.461
38.0	80.360
38.5	76.579
39.0	73.055
39.5	69.722
40.0	66.710
40.5	63.827
41.0	61.199
41.5	58.700
42.0	56.393
42.5	54.214
43.0	52.164
43.5	50.241
44.0	48.383
44.5	46.652
45.0	45.050
45.5	43.512
46.0	42.038
46.5	40.629
47.0	39.283
47.5	37.937
48.0	36.720
48.5	35.502
49.0	34.413
49.5	33.323
50.0	32.298
50.5	31.273
51.0	30.311
51.5	29.414
52.0	28.517
52.5	27.684
53.0	26.851
53.5	26.082
54.0	25.313
54.5	24.608

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CANDELA TABULATION - (Cont.)

55.0	23.903
55.5	23.198
56.0	22.557
56.5	21.916
57.0	21.211
57.5	20.571
58.0	19.994
58.5	19.353
59.0	18.776
59.5	18.136
60.0	17.559
60.5	16.918
61.0	16.341
61.5	15.764
62.0	15.188
62.5	14.675
63.0	14.098
63.5	13.586
64.0	13.009
64.5	12.496
65.0	11.984
65.5	11.471
66.0	11.022
66.5	10.574
67.0	10.125
67.5	9.677
68.0	9.228
68.5	8.843
69.0	8.459
69.5	8.074
70.0	7.690
70.5	7.370
71.0	6.985
71.5	6.665
72.0	6.344
72.5	6.024
73.0	5.767
73.5	5.511
74.0	5.255
74.5	4.998
75.0	4.742
75.5	4.486
76.0	4.294
76.5	4.101
77.0	3.909
77.5	3.717
78.0	3.525
78.5	3.396
79.0	3.204
79.5	3.012
80.0	2.884
80.5	2.691
81.0	2.499
81.5	2.371
82.0	2.179
82.5	2.051

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CANDELA TABULATION - (Cont.)

83.0	1.922
83.5	1.730
84.0	1.602
84.5	1.410
85.0	1.282
85.5	1.153
86.0	1.025
86.5	0.897
87.0	0.769
87.5	0.641
88.0	0.513
88.5	0.384
89.0	0.320
89.5	0.256
90.0	0.192
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
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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
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160.5	0.000
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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	809.68	N.A.	69.70
0-30	1012.55	N.A.	87.20
0-40	1085.34	N.A.	93.50
0-60	1142.57	N.A.	98.40
0-80	1159.81	N.A.	99.90
0-90	1161.29	N.A.	100.00
10-90	821.27	N.A.	70.70
20-40	275.66	N.A.	23.70
20-50	311.28	N.A.	26.80
40-70	69.28	N.A.	6.00
60-80	17.25	N.A.	1.50
70-80	5.20	N.A.	0.40
80-90	1.48	N.A.	0.10
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	1161.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	340.02
10-20	469.66
20-30	202.87
30-40	72.78
40-50	35.62
50-60	21.61
60-70	12.05
70-80	5.20
80-90	1.48
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	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	82	78	75	80	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	76	71	68	75	71	68	74	71	68	73	70	68	67

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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	7.3	8.2	7.6	8.5	8.9	7.3	8.2	7.6	8.5	8.9
	3H	8.1	9.0	8.5	9.3	9.7	8.1	9.0	8.5	9.3	9.7
	4H	8.4	9.2	8.8	9.5	9.9	8.4	9.2	8.8	9.5	9.9
	6H	8.5	9.3	8.9	9.6	10.0	8.5	9.3	8.9	9.6	10.0
	8H	8.6	9.3	9.0	9.7	10.1	8.6	9.3	9.0	9.7	10.1
	12H	8.6	9.2	9.0	9.6	10.1	8.6	9.2	9.0	9.6	10.1

UGR Viewed Endwise

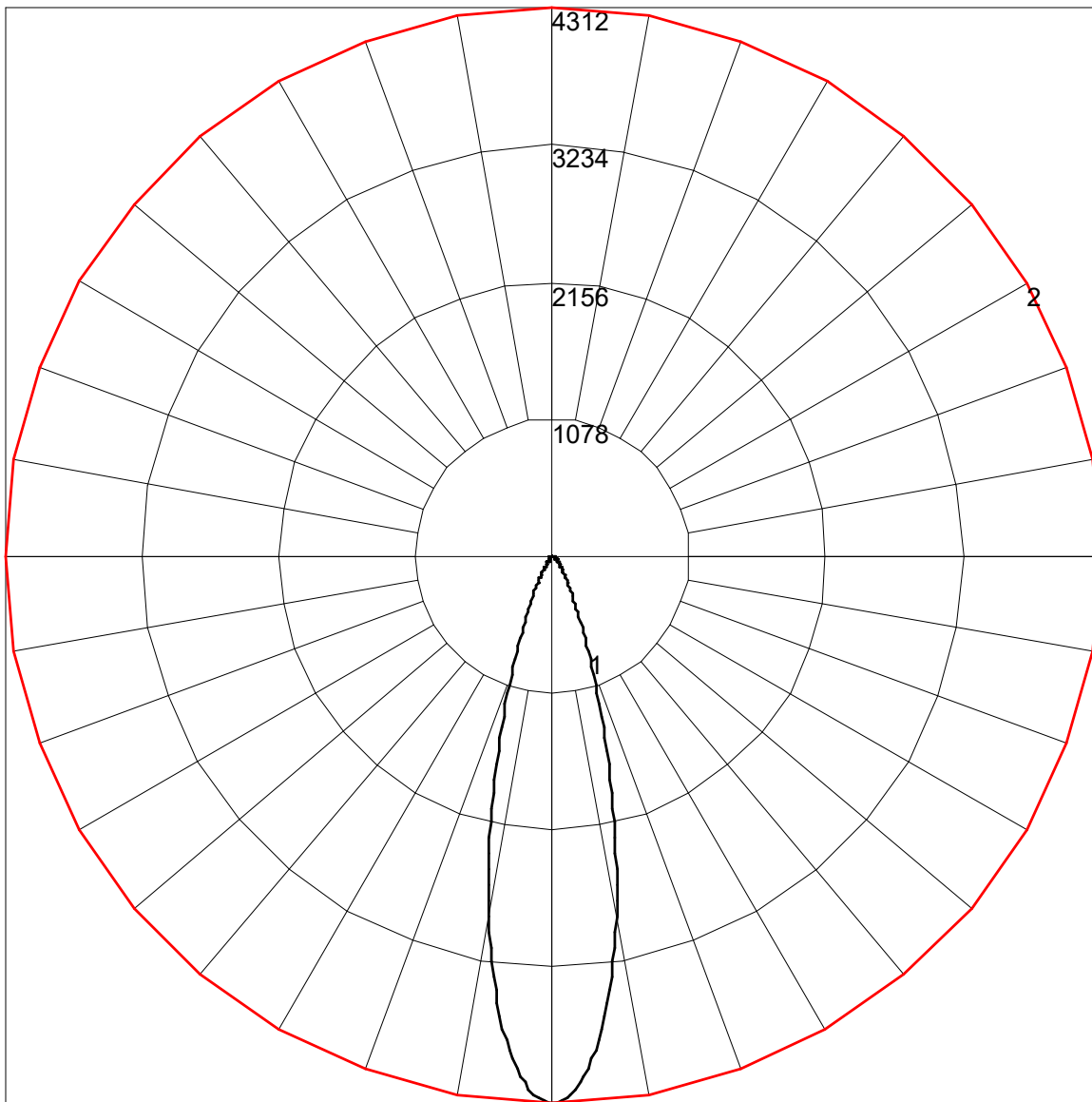
4H	2H	7.5	8.3	7.9	8.6	9.0	7.5	8.3	7.9	8.6	9.0
	3H	8.5	9.2	8.9	9.6	10.0	8.5	9.2	8.9	9.6	10.0
	4H	8.8	9.4	9.3	9.8	10.3	8.8	9.4	9.3	9.8	10.3
	6H	9.1	9.6	9.6	10.0	10.5	9.1	9.6	9.6	10.0	10.5
	8H	9.2	9.6	9.6	10.1	10.6	9.2	9.6	9.6	10.1	10.6
	12H	9.2	9.6	9.7	10.1	10.6	9.2	9.6	9.7	10.1	10.6

8H	4H	8.9	9.3	9.4	9.8	10.3	8.9	9.3	9.4	9.8	10.3
	6H	9.2	9.6	9.7	10.1	10.6	9.2	9.6	9.7	10.1	10.6
	8H	9.4	9.7	9.9	10.2	10.7	9.4	9.7	9.9	10.2	10.7
	12H	9.5	9.8	10.0	10.3	10.8	9.5	9.8	10.0	10.3	10.8

12H	4H	8.8	9.2	9.3	9.7	10.2	8.8	9.2	9.3	9.7	10.2
	6H	9.2	9.6	9.8	10.0	10.6	9.2	9.6	9.8	10.0	10.6
	8H	9.4	9.7	9.9	10.2	10.8	9.4	9.7	9.9	10.2	10.8

Maximum UGR = 10.8

POLAR GRAPH



Maximum Candela = 4312.148 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.)