



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.07

[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-LW-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, clear glas

[MORE] s 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	988
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	11.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
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	16419	16419	16419
55	13669	13669	13669
65	10385	10385	10385
75	7531	7531	7531
85	4908	4908	4908

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CANDELA TABULATION

	<u>0</u>
0.0	628.285
0.5	628.158
1.0	627.652
1.5	626.893
2.0	625.944
2.5	624.679
3.0	623.414
3.5	621.959
4.0	620.631
4.5	619.303
5.0	618.354
5.5	617.468
6.0	616.646
6.5	615.824
7.0	614.938
7.5	614.116
8.0	613.294
8.5	612.535
9.0	611.776
9.5	611.143
10.0	610.511
10.5	610.005
11.0	609.562
11.5	609.309
12.0	608.866
12.5	608.423
13.0	607.791
13.5	606.968
14.0	605.956
14.5	604.818
15.0	603.616
15.5	602.098
16.0	600.454
16.5	598.809
17.0	597.164
17.5	595.457
18.0	593.622
18.5	591.535
19.0	589.195
19.5	586.601
20.0	583.628
20.5	580.403
21.0	576.418
21.5	571.674
22.0	566.297
22.5	560.225
23.0	553.584
23.5	546.373
24.0	538.403
24.5	529.801
25.0	520.503
25.5	510.825
26.0	500.515
26.5	489.762

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CANDELA TABULATION - (Cont.)

27.0	478.313
27.5	466.549
28.0	454.151
28.5	441.058
29.0	427.459
29.5	413.164
30.0	398.489
30.5	383.372
31.0	368.255
31.5	353.011
32.0	338.210
32.5	324.041
33.0	310.442
33.5	297.728
34.0	286.027
34.5	275.400
35.0	265.912
35.5	257.184
36.0	249.530
36.5	242.509
37.0	236.247
37.5	230.618
38.0	225.494
38.5	220.814
39.0	216.386
39.5	212.401
40.0	208.543
40.5	204.937
41.0	201.585
41.5	198.296
42.0	195.133
42.5	192.224
43.0	189.251
43.5	186.341
44.0	183.495
44.5	180.712
45.0	177.865
45.5	175.145
46.0	172.362
46.5	169.579
47.0	166.733
47.5	163.950
48.0	161.103
48.5	158.257
49.0	155.411
49.5	152.438
50.0	149.592
50.5	146.682
51.0	143.772
51.5	140.799
52.0	137.827
52.5	134.854
53.0	131.881
53.5	128.908
54.0	126.062
54.5	123.152

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CANDELA TABULATION - (Cont.)

55.0	120.116
55.5	117.143
56.0	114.170
56.5	111.387
57.0	108.604
57.5	105.694
58.0	102.785
58.5	99.939
59.0	97.155
59.5	94.372
60.0	91.716
60.5	89.059
61.0	86.466
61.5	83.872
62.0	81.406
62.5	78.939
63.0	76.535
63.5	74.132
64.0	71.791
64.5	69.514
65.0	67.237
65.5	65.023
66.0	62.816
66.5	60.646
67.0	58.502
67.5	56.402
68.0	54.340
68.5	52.272
69.0	50.267
69.5	48.280
70.0	46.351
70.5	44.485
71.0	42.657
71.5	40.886
72.0	39.178
72.5	37.521
73.0	35.908
73.5	34.327
74.0	32.809
74.5	31.323
75.0	29.861
75.5	28.451
76.0	27.066
76.5	25.706
77.0	24.384
77.5	23.087
78.0	21.828
78.5	20.595
79.0	19.387
79.5	18.223
80.0	17.065
80.5	15.946
81.0	14.839
81.5	13.738
82.0	12.663
82.5	11.594

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CANDELA TABULATION - (Cont.)

83.0	10.550
83.5	9.526
84.0	8.514
84.5	7.521
85.0	6.553
85.5	5.617
86.0	4.712
86.5	3.839
87.0	2.992
87.5	2.283
88.0	1.746
88.5	1.278
89.0	0.886
89.5	0.557
90.0	0.354
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
118.5	0.000
119.0	0.000
119.5	0.000
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125.5	0.000
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127.0	0.000
127.5	0.000
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130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
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

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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
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
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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
156.0	0.000
156.5	0.000
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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	228.86	N.A.	23.20
0-30	462.63	N.A.	46.80
0-40	635.96	N.A.	64.40
0-60	880.71	N.A.	89.20
0-80	979.85	N.A.	99.20
0-90	987.68	N.A.	100.00
10-90	928.89	N.A.	94.00
20-40	407.10	N.A.	41.20
20-50	544.45	N.A.	55.10
40-70	311.77	N.A.	31.60
60-80	99.14	N.A.	10.00
70-80	32.11	N.A.	3.30
80-90	7.83	N.A.	0.80
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	987.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.79
10-20	170.07
20-30	233.76
30-40	173.34
40-50	137.35
50-60	107.40
60-70	67.02
70-80	32.11
80-90	7.83
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	100	100	100	100	97	97	97	97	93	93	93	89	89	89	86	86	86	84
1	93	90	87	84	91	88	85	83	84	82	80	81	80	78	78	77	76	74
2	86	81	76	72	84	79	75	71	76	73	70	74	71	68	71	69	67	65
3	80	73	67	63	78	72	66	62	69	65	61	67	63	60	65	62	59	57
4	75	66	60	55	73	65	59	55	63	58	54	61	57	53	60	56	53	51
5	70	60	54	49	68	60	54	49	58	53	49	56	52	48	55	51	48	46
6	65	55	49	44	64	55	49	44	53	48	44	52	47	44	51	47	43	42
7	61	51	45	40	60	51	44	40	49	44	40	48	43	40	47	43	39	38
8	57	47	41	37	56	47	41	37	46	40	37	45	40	36	44	40	36	35
9	54	44	38	34	53	44	38	34	43	37	34	42	37	34	41	37	33	32
10	51	41	35	31	50	41	35	31	40	35	31	39	35	31	39	34	31	30

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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	19.6	21.0	20.0	21.3	21.6	19.6	21.0	20.0	21.3	21.6
	3H	20.8	22.1	21.2	22.4	22.7	20.8	22.1	21.2	22.4	22.7
	4H	21.2	22.4	21.6	22.7	23.1	21.2	22.4	21.6	22.7	23.1
	6H	21.5	22.5	21.9	22.9	23.3	21.5	22.5	21.9	22.9	23.3
	8H	21.6	22.6	22.0	23.0	23.4	21.6	22.6	22.0	23.0	23.4
	12H	21.6	22.6	22.0	22.9	23.4	21.6	22.6	22.0	22.9	23.4

UGR Viewed Endwise

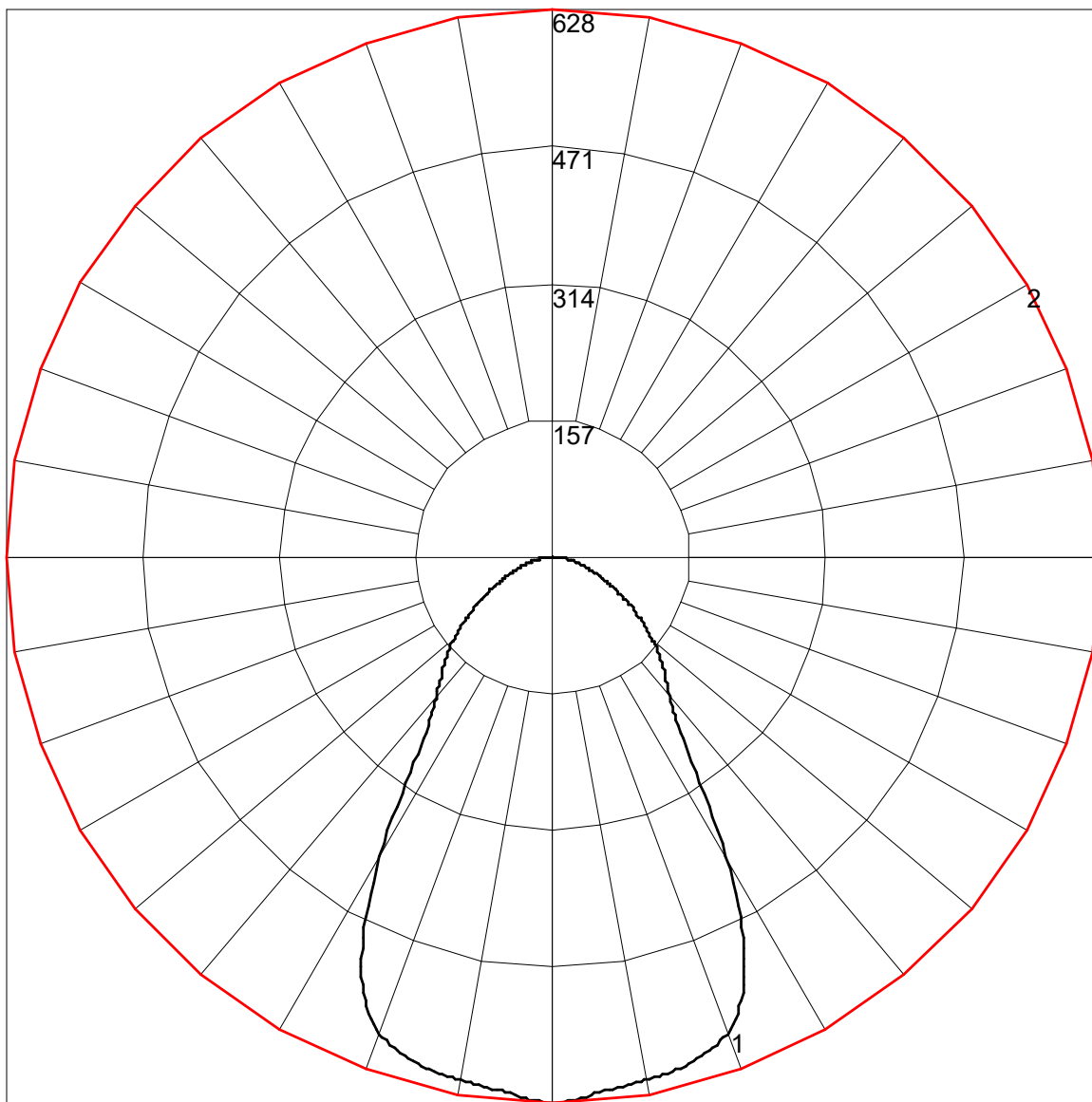
4H	2H	20.0	21.2	20.4	21.5	21.9	20.0	21.2	20.4	21.5	21.9
	3H	21.4	22.4	21.8	22.8	23.2	21.4	22.4	21.8	22.8	23.2
	4H	21.9	22.8	22.4	23.2	23.6	21.9	22.8	22.4	23.2	23.6
	6H	22.3	23.0	22.8	23.5	23.9	22.3	23.0	22.8	23.5	23.9
	8H	22.4	23.1	22.8	23.5	24.0	22.4	23.1	22.8	23.5	24.0
	12H	22.5	23.1	22.9	23.6	24.0	22.5	23.1	22.9	23.6	24.0

8H	4H	22.1	22.8	22.5	23.2	23.7	22.1	22.8	22.5	23.2	23.7
	6H	22.5	23.1	23.0	23.6	24.1	22.5	23.1	23.0	23.6	24.1
	8H	22.7	23.2	23.2	23.7	24.2	22.7	23.2	23.2	23.7	24.2
	12H	22.8	23.3	23.3	23.8	24.3	22.8	23.3	23.3	23.8	24.3

12H	4H	22.1	22.7	22.6	23.2	23.6	22.1	22.7	22.6	23.2	23.6
	6H	22.6	23.1	23.1	23.5	24.1	22.6	23.1	23.1	23.5	24.1
	8H	22.8	23.2	23.3	23.7	24.3	22.8	23.2	23.3	23.7	24.3

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 628.285 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.)