



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.09

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P10-835-PoE-LM-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	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)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.56
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	5187	5187	5187
55	3798	3798	3798
65	3094	3094	3094
75	2518	2518	2518
85	1657	1657	1657

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CANDELA TABULATION

	<u>0</u>
0.0	2741.616
0.5	2740.352
1.0	2736.560
1.5	2730.872
2.0	2723.288
2.5	2712.544
3.0	2700.536
3.5	2686.632
4.0	2670.200
4.5	2653.136
5.0	2634.176
5.5	2612.688
6.0	2589.304
6.5	2563.392
7.0	2535.584
7.5	2505.248
8.0	2471.752
8.5	2435.728
9.0	2397.808
9.5	2357.360
10.0	2313.752
10.5	2267.616
11.0	2218.320
11.5	2165.232
12.0	2110.248
12.5	2052.104
13.0	1991.432
13.5	1927.600
14.0	1861.872
14.5	1793.616
15.0	1724.096
15.5	1653.312
16.0	1582.528
16.5	1511.112
17.0	1441.592
17.5	1372.072
18.0	1301.920
18.5	1233.032
19.0	1164.776
19.5	1099.048
20.0	1035.216
20.5	973.912
21.0	916.400
21.5	861.416
22.0	806.432
22.5	754.608
23.0	705.312
23.5	658.544
24.0	614.999
24.5	573.793
25.0	535.304
25.5	499.027
26.0	465.405
26.5	433.931

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CANDELA TABULATION - (Cont.)

27.0	404.670
27.5	377.557
28.0	352.277
28.5	328.893
29.0	307.215
29.5	286.991
30.0	268.284
30.5	250.841
31.0	234.662
31.5	219.620
32.0	205.590
32.5	192.570
33.0	180.436
33.5	169.123
34.0	158.695
34.5	149.026
35.0	139.988
35.5	131.709
36.0	123.998
36.5	116.983
37.0	110.474
37.5	104.533
38.0	99.161
38.5	94.168
39.0	89.618
39.5	85.446
40.0	81.654
40.5	78.115
41.0	74.892
41.5	71.922
42.0	69.141
42.5	66.613
43.0	64.211
43.5	61.999
44.0	59.977
44.5	58.018
45.0	56.185
45.5	54.478
46.0	52.898
46.5	51.382
47.0	49.928
47.5	48.538
48.0	47.274
48.5	46.010
49.0	44.809
49.5	43.671
50.0	42.597
50.5	41.522
51.0	40.511
51.5	39.500
52.0	38.552
52.5	37.667
53.0	36.719
53.5	35.834
54.0	35.013
54.5	34.191

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CANDELA TABULATION - (Cont.)

55.0	33.370
55.5	32.548
56.0	31.790
56.5	31.031
57.0	30.273
57.5	29.514
58.0	28.819
58.5	28.124
59.0	27.429
59.5	26.797
60.0	26.165
60.5	25.470
61.0	24.838
61.5	24.206
62.0	23.574
62.5	23.005
63.0	22.373
63.5	21.804
64.0	21.235
64.5	20.666
65.0	20.034
65.5	19.466
66.0	18.897
66.5	18.391
67.0	17.822
67.5	17.254
68.0	16.748
68.5	16.242
69.0	15.674
69.5	15.168
70.0	14.662
70.5	14.157
71.0	13.714
71.5	13.209
72.0	12.703
72.5	12.261
73.0	11.755
73.5	11.313
74.0	10.870
74.5	10.428
75.0	9.986
75.5	9.543
76.0	9.101
76.5	8.658
77.0	8.216
77.5	7.837
78.0	7.394
78.5	7.015
79.0	6.636
79.5	6.194
80.0	5.814
80.5	5.435
81.0	5.056
81.5	4.677
82.0	4.298
82.5	3.918

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CANDELA TABULATION - (Cont.)

83.0	3.602
83.5	3.223
84.0	2.907
84.5	2.528
85.0	2.212
85.5	1.896
86.0	1.580
86.5	1.327
87.0	1.074
87.5	0.885
88.0	0.695
88.5	0.569
89.0	0.442
89.5	0.316
90.0	0.190
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-LM-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
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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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-LM-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
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145.0	0.000
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146.5	0.000
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147.5	0.000
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150.0	0.000
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151.0	0.000
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153.5	0.000
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156.0	0.000
156.5	0.000
157.0	0.000
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	705.11	N.A.	60.70
0-30	960.47	N.A.	82.70
0-40	1053.33	N.A.	90.70
0-60	1127.98	N.A.	97.10
0-80	1158.52	N.A.	99.80
0-90	1161.22	N.A.	100.00
10-90	919.79	N.A.	79.20
20-40	348.23	N.A.	30.00
20-50	392.81	N.A.	33.80
40-70	94.58	N.A.	8.10
60-80	30.55	N.A.	2.60
70-80	10.61	N.A.	0.90
80-90	2.70	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	1161.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	241.43
10-20	463.67
20-30	255.37
30-40	92.86
40-50	44.58
50-60	30.07
60-70	19.94
70-80	10.61
80-90	2.70
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	95	93	91	89	93	91	90	88	88	87	85	85	84	83	82	81	80	79
2	91	87	84	82	89	86	83	81	83	81	79	81	79	77	78	77	76	74
3	87	82	78	75	86	81	78	75	79	76	74	77	75	72	75	73	71	70
4	84	78	74	70	82	77	73	70	75	72	69	73	71	68	72	70	68	66
5	80	74	69	66	79	73	69	66	72	68	65	70	67	65	69	66	64	63
6	77	70	66	63	76	70	66	63	68	65	62	67	64	62	66	63	61	60
7	74	67	63	60	73	67	62	59	66	62	59	65	61	59	64	61	59	58
8	71	64	60	57	70	64	60	57	63	59	57	62	59	56	61	58	56	55
9	69	62	57	54	68	61	57	54	60	57	54	60	56	54	59	56	54	53
10	66	59	55	52	65	59	55	52	58	55	52	58	54	52	57	54	52	51

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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	10.7	11.7	11.0	12.0	12.3	UGR Viewed Endwise			
	3H	12.1	13.0	12.5	13.3	13.7	10.7	11.7	11.0	12.0
	4H	12.6	13.4	13.0	13.8	14.2	12.1	13.0	12.5	13.3
	6H	12.9	13.7	13.4	14.1	14.5	12.6	13.4	13.0	13.8
	8H	13.0	13.7	13.5	14.1	14.5	12.9	13.7	13.4	14.1
	12H	13.1	13.7	13.5	14.1	14.6	13.0	13.7	13.5	14.1

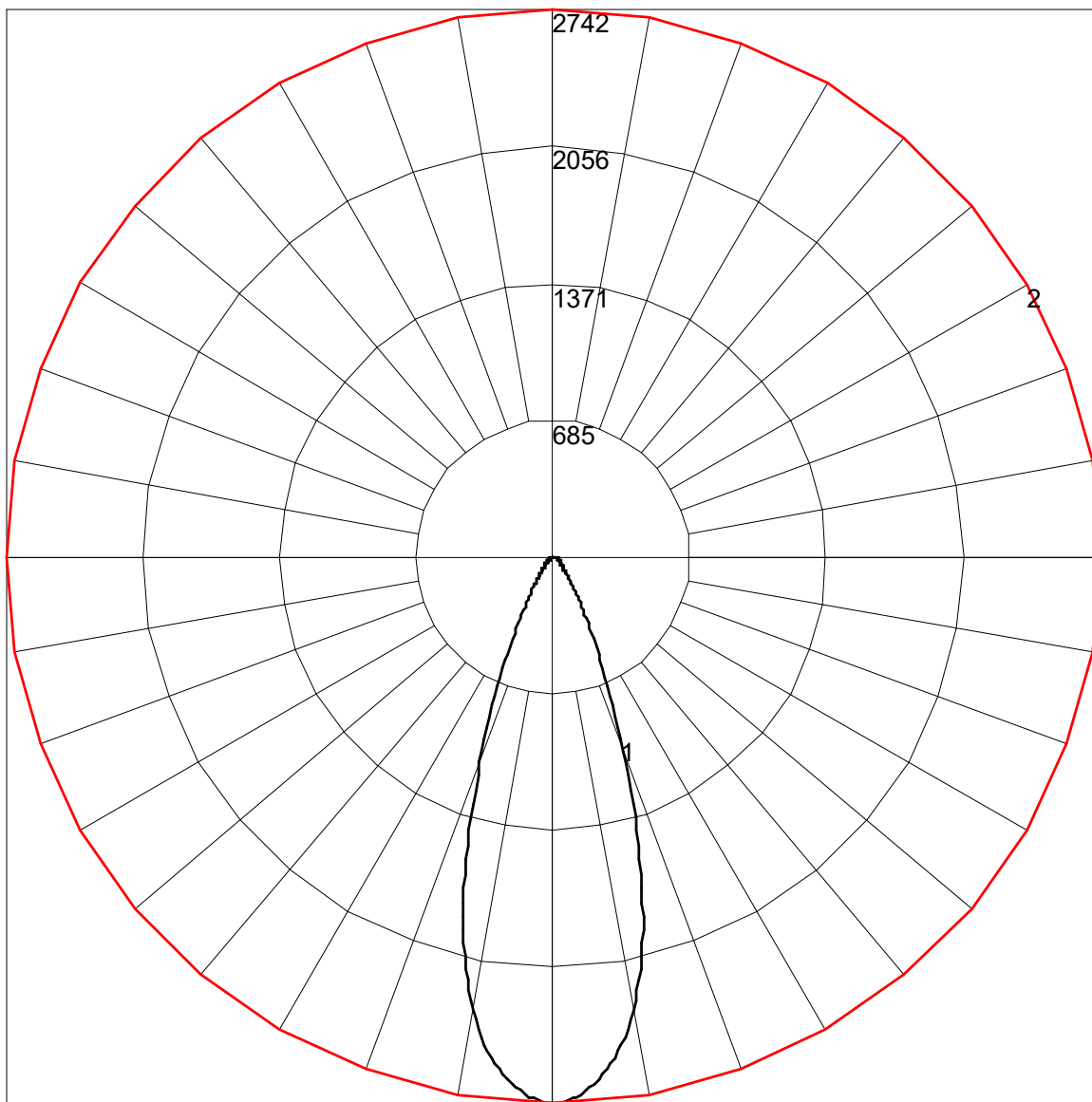
4H	2H	11.1	11.9	11.5	12.3	12.7	11.1	11.9	11.5	12.3
	3H	12.7	13.4	13.1	13.8	14.2	12.7	13.4	13.1	13.8
	4H	13.3	13.9	13.7	14.3	14.8	13.3	13.9	13.7	14.3
	6H	13.8	14.3	14.2	14.7	15.2	13.8	14.3	14.2	14.7
	8H	13.9	14.4	14.4	14.8	15.3	13.9	14.4	14.4	14.8
	12H	14.0	14.4	14.4	14.9	15.3	14.0	14.4	14.4	14.9

8H	4H	13.5	14.0	14.0	14.4	14.9	13.5	14.0	14.0	14.4
	6H	14.0	14.4	14.6	14.9	15.4	14.0	14.4	14.6	14.9
	8H	14.2	14.6	14.8	15.1	15.6	14.2	14.6	14.8	15.1
	12H	14.4	14.7	14.9	15.2	15.7	14.4	14.7	14.9	15.2

12H	4H	13.5	13.9	14.0	14.4	14.8	13.5	13.9	14.0	14.4
	6H	14.1	14.4	14.6	14.9	15.4	14.1	14.4	14.6	14.9
	8H	14.3	14.6	14.8	15.1	15.7	14.3	14.6	14.8	15.1

Maximum UGR = 15.7

POLAR GRAPH



Maximum Candela = 2741.616 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.)