



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LM-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.09

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P14-835-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	1644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	17.5
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	7345	7345	7345
55	5378	5378	5378
65	4382	4382	4382
75	3566	3566	3566
85	2346	2346	2346

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CANDELA TABULATION

	<u>0</u>
0.0	3882.510
0.5	3880.720
1.0	3875.350
1.5	3867.295
2.0	3856.555
2.5	3841.340
3.0	3824.335
3.5	3804.645
4.0	3781.375
4.5	3757.210
5.0	3730.360
5.5	3699.930
6.0	3666.815
6.5	3630.120
7.0	3590.740
7.5	3547.780
8.0	3500.345
8.5	3449.330
9.0	3395.630
9.5	3338.350
10.0	3276.595
10.5	3211.260
11.0	3141.450
11.5	3066.270
12.0	2988.405
12.5	2906.065
13.0	2820.145
13.5	2729.750
14.0	2636.670
14.5	2540.010
15.0	2441.560
15.5	2341.320
16.0	2241.080
16.5	2139.945
17.0	2041.495
17.5	1943.045
18.0	1843.700
18.5	1746.145
19.0	1649.485
19.5	1556.405
20.0	1466.010
20.5	1379.195
21.0	1297.750
21.5	1219.885
22.0	1142.020
22.5	1068.630
23.0	998.820
23.5	932.590
24.0	870.924
24.5	812.570
25.0	758.065
25.5	706.692
26.0	659.078
26.5	614.507

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LM-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	573.068
27.5	534.673
28.0	498.873
28.5	465.758
29.0	435.059
29.5	406.419
30.0	379.927
30.5	355.225
31.0	332.313
31.5	311.012
32.0	291.143
32.5	272.706
33.0	255.522
33.5	239.502
34.0	224.734
34.5	211.041
35.0	198.242
35.5	186.518
36.0	175.599
36.5	165.664
37.0	156.446
37.5	148.033
38.0	140.425
38.5	133.355
39.0	126.911
39.5	121.004
40.0	115.634
40.5	110.622
41.0	106.057
41.5	101.851
42.0	97.913
42.5	94.333
43.0	90.932
43.5	87.799
44.0	84.935
44.5	82.161
45.0	79.565
45.5	77.149
46.0	74.911
46.5	72.763
47.0	70.705
47.5	68.736
48.0	66.946
48.5	65.156
49.0	63.455
49.5	61.844
50.0	60.323
50.5	58.801
51.0	57.369
51.5	55.937
52.0	54.595
52.5	53.342
53.0	51.999
53.5	50.746
54.0	49.583
54.5	48.419

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CANDELA TABULATION - (Cont.)

55.0	47.256
55.5	46.092
56.0	45.018
56.5	43.944
57.0	42.870
57.5	41.796
58.0	40.812
58.5	39.827
59.0	38.843
59.5	37.948
60.0	37.053
60.5	36.068
61.0	35.173
61.5	34.278
62.0	33.383
62.5	32.578
63.0	31.683
63.5	30.877
64.0	30.072
64.5	29.266
65.0	28.371
65.5	27.566
66.0	26.760
66.5	26.044
67.0	25.239
67.5	24.433
68.0	23.717
68.5	23.001
69.0	22.196
69.5	21.480
70.0	20.764
70.5	20.048
71.0	19.421
71.5	18.705
72.0	17.989
72.5	17.363
73.0	16.647
73.5	16.020
74.0	15.394
74.5	14.767
75.0	14.141
75.5	13.514
76.0	12.888
76.5	12.261
77.0	11.635
77.5	11.098
78.0	10.471
78.5	9.934
79.0	9.397
79.5	8.771
80.0	8.234
80.5	7.697
81.0	7.160
81.5	6.623
82.0	6.086
82.5	5.549

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CANDELA TABULATION - (Cont.)

83.0	5.101
83.5	4.564
84.0	4.117
84.5	3.580
85.0	3.132
85.5	2.685
86.0	2.237
86.5	1.879
87.0	1.521
87.5	1.253
88.0	0.984
88.5	0.805
89.0	0.626
89.5	0.447
90.0	0.268
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-P14-835-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
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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-P14-835-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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150.5	0.000
151.0	0.000
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152.0	0.000
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157.5	0.000
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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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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	998.53	N.A.	60.70
0-30	1360.16	N.A.	82.70
0-40	1491.66	N.A.	90.70
0-60	1597.37	N.A.	97.10
0-80	1640.63	N.A.	99.80
0-90	1644.45	N.A.	100.00
10-90	1302.55	N.A.	79.20
20-40	493.14	N.A.	30.00
20-50	556.27	N.A.	33.80
40-70	133.94	N.A.	8.10
60-80	43.26	N.A.	2.60
70-80	15.02	N.A.	0.90
80-90	3.82	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	1644.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	341.90
10-20	656.63
20-30	361.63
30-40	131.50
40-50	63.13
50-60	42.58
60-70	28.23
70-80	15.02
80-90	3.82
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	169	169	169	169	165	165	165	165	157	157	157	151	151	151	145	145	145	142
1	161	157	154	151	158	154	151	149	149	146	144	143	142	140	139	137	136	133
2	154	148	142	138	151	145	140	136	141	137	133	136	133	130	133	130	128	125
3	147	139	133	127	145	137	131	126	133	128	124	130	126	122	127	124	121	118
4	141	131	124	119	139	130	123	118	127	121	117	124	119	116	122	118	114	112
5	135	125	117	112	133	123	117	111	121	115	110	119	114	110	117	112	109	107
6	130	119	111	106	128	118	111	106	116	110	105	114	108	104	112	107	104	102
7	125	113	106	101	123	113	105	100	111	105	100	109	104	99	108	103	99	97
8	120	109	101	96	119	108	101	96	106	100	96	105	99	95	104	99	95	93
9	116	104	97	92	115	103	97	92	102	96	91	101	95	91	100	95	91	89
10	112	100	93	88	111	99	93	88	98	92	88	97	92	88	96	91	87	86

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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	10.1	11.1	10.4	11.4	11.7	10.1	11.1	10.4	11.4	11.7
	3H	11.5	12.4	11.9	12.7	13.1	11.5	12.4	11.9	12.7	13.1
	4H	12.0	12.8	12.4	13.2	13.6	12.0	12.8	12.4	13.2	13.6
	6H	12.3	13.1	12.8	13.5	13.9	12.3	13.1	12.8	13.5	13.9
	8H	12.4	13.1	12.9	13.5	13.9	12.4	13.1	12.9	13.5	13.9
	12H	12.5	13.1	12.9	13.5	14.0	12.5	13.1	12.9	13.5	14.0

UGR Viewed Endwise

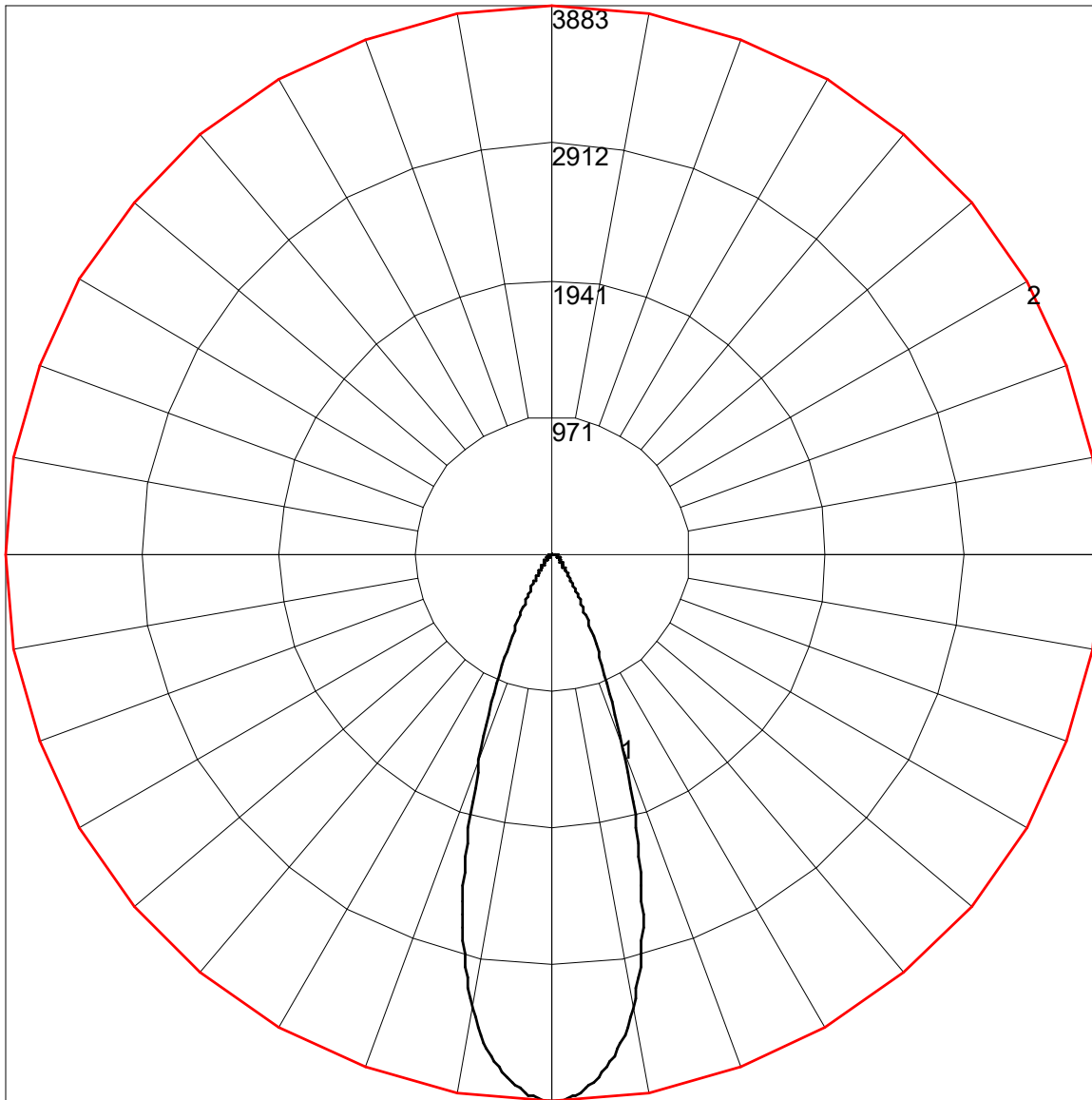
4H	2H	10.5	11.3	10.9	11.7	12.1	10.5	11.3	10.9	11.7	12.1
	3H	12.1	12.8	12.5	13.2	13.6	12.1	12.8	12.5	13.2	13.6
	4H	12.7	13.3	13.1	13.7	14.2	12.7	13.3	13.1	13.7	14.2
	6H	13.2	13.7	13.6	14.1	14.6	13.2	13.7	13.6	14.1	14.6
	8H	13.3	13.8	13.8	14.2	14.7	13.3	13.8	13.8	14.2	14.7
	12H	13.4	13.8	13.8	14.3	14.7	13.4	13.8	13.8	14.3	14.7

8H	4H	12.9	13.4	13.4	13.8	14.3	12.9	13.4	13.4	13.8	14.3
	6H	13.4	13.8	14.0	14.3	14.8	13.4	13.8	14.0	14.3	14.8
	8H	13.6	14.0	14.2	14.5	15.0	13.6	14.0	14.2	14.5	15.0
	12H	13.8	14.1	14.3	14.6	15.1	13.8	14.1	14.3	14.6	15.1

12H	4H	12.9	13.3	13.4	13.8	14.2	12.9	13.3	13.4	13.8	14.2
	6H	13.5	13.8	14.0	14.3	14.8	13.5	13.8	14.0	14.3	14.8
	8H	13.7	14.0	14.2	14.5	15.1	13.7	14.0	14.2	14.5	15.1

Maximum UGR = 15.1

POLAR GRAPH



Maximum Candela = 3882.51 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.)