



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.12

[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-RW-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	1310
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	17.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.94
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	17689	17689	17689
55	14752	14752	14752
65	10407	10407	10407
75	6376	6376	6376
85	5028	5028	5028

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CANDELA TABULATION

	<u>0</u>
0.0	969.128
0.5	968.221
1.0	967.315
1.5	966.408
2.0	964.595
2.5	961.875
3.0	959.156
3.5	955.529
4.0	951.903
4.5	949.183
5.0	945.557
5.5	941.931
6.0	938.304
6.5	934.678
7.0	931.052
7.5	927.426
8.0	922.893
8.5	919.266
9.0	915.640
9.5	911.107
10.0	907.481
10.5	903.039
11.0	898.687
11.5	894.336
12.0	889.984
12.5	885.723
13.0	881.372
13.5	876.839
14.0	872.396
14.5	868.045
15.0	863.965
15.5	859.795
16.0	855.715
16.5	851.727
17.0	848.010
17.5	844.293
18.0	840.666
18.5	837.221
19.0	833.776
19.5	830.241
20.0	826.614
20.5	822.716
21.0	818.274
21.5	813.197
22.0	807.486
22.5	801.140
23.0	794.250
23.5	786.453
24.0	777.931
24.5	768.594
25.0	758.259
25.5	747.108
26.0	734.688
26.5	721.089

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

CANDELA TABULATION - (Cont.)

27.0	706.584
27.5	690.810
28.0	674.038
28.5	655.816
29.0	636.596
29.5	615.745
30.0	593.625
30.5	570.235
31.0	545.939
31.5	521.099
32.0	495.805
32.5	470.693
33.0	445.853
33.5	421.829
34.0	398.802
34.5	377.135
35.0	357.372
35.5	339.240
36.0	323.284
36.5	309.142
37.0	296.722
37.5	286.115
38.0	276.777
38.5	268.527
39.0	261.365
39.5	255.019
40.0	249.217
40.5	243.959
41.0	239.064
41.5	234.621
42.0	230.542
42.5	226.644
43.0	222.927
43.5	219.391
44.0	216.037
44.5	212.864
45.0	209.600
45.5	206.518
46.0	203.345
46.5	200.262
47.0	197.089
47.5	193.916
48.0	190.653
48.5	187.389
49.0	184.307
49.5	181.134
50.0	177.779
50.5	174.334
51.0	170.799
51.5	167.263
52.0	163.727
52.5	160.101
53.0	156.565
53.5	153.120
54.0	149.313
54.5	145.505

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

CANDELA TABULATION - (Cont.)

55.0	141.788
55.5	137.981
56.0	134.264
56.5	130.547
57.0	126.830
57.5	123.113
58.0	119.577
58.5	115.951
59.0	112.415
59.5	108.970
60.0	105.525
60.5	102.080
61.0	98.726
61.5	95.462
62.0	92.199
62.5	89.026
63.0	85.853
63.5	82.680
64.0	79.688
64.5	76.606
65.0	73.704
65.5	70.713
66.0	67.902
66.5	65.092
67.0	62.372
67.5	59.653
68.0	57.024
68.5	54.394
69.0	51.947
69.5	49.408
70.0	47.051
70.5	44.694
71.0	42.428
71.5	40.252
72.0	38.076
72.5	36.082
73.0	34.178
73.5	32.455
74.0	30.733
74.5	29.192
75.0	27.651
75.5	26.291
76.0	24.931
76.5	23.752
77.0	22.664
77.5	21.576
78.0	20.489
78.5	19.401
79.0	18.403
79.5	17.406
80.0	16.409
80.5	15.412
81.0	14.415
81.5	13.508
82.0	12.511
82.5	11.604

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

CANDELA TABULATION - (Cont.)

83.0	10.698
83.5	9.882
84.0	8.975
84.5	8.159
85.0	7.343
85.5	6.527
86.0	5.711
86.5	4.896
87.0	4.170
87.5	3.354
88.0	2.720
88.5	2.176
89.0	1.722
89.5	1.269
90.0	0.907
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P14-835-POE-RW-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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130.0	0.000
130.5	0.000
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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-P14-835-POE-RW-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
156.0	0.000
156.5	0.000
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159.0	0.000
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160.0	0.000
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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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PHOTOMETRIC FILENAME : V6DR-P14-835-POE-RW-OF-WH_.IES

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	333.01	N.A.	25.40
0-30	673.22	N.A.	51.40
0-40	908.60	N.A.	69.40
0-60	1197.45	N.A.	91.40
0-80	1301.73	N.A.	99.40
0-90	1310.09	N.A.	100.00
10-90	1221.07	N.A.	93.20
20-40	575.59	N.A.	43.90
20-50	737.99	N.A.	56.30
40-70	362.45	N.A.	27.70
60-80	104.28	N.A.	8.00
70-80	30.68	N.A.	2.30
80-90	8.36	N.A.	0.60
90-110	0.02	N.A.	0.00
90-120	0.02	N.A.	0.00
90-130	0.02	N.A.	0.00
90-150	0.02	N.A.	0.00
90-180	0.02	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1310.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.02
10-20	243.99
20-30	340.21
30-40	235.38
40-50	162.40
50-60	126.45
60-70	73.60
70-80	30.68
80-90	8.36
90-100	0.02
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	168	168	168	168	165	165	165	165	157	157	157	151	151	151	144	144	144	141
1	158	153	148	144	154	149	145	142	144	140	137	138	136	133	133	131	129	126
2	147	138	131	124	144	135	129	123	131	125	120	126	122	117	122	118	115	112
3	137	125	116	109	134	123	115	108	119	112	106	116	110	105	112	107	103	100
4	128	114	104	97	125	113	103	96	109	101	95	106	99	94	104	98	93	90
5	120	105	95	87	117	104	94	87	101	92	86	98	91	85	96	89	84	82
6	112	97	86	79	110	96	86	79	93	84	78	91	83	77	89	82	77	74
7	106	90	79	72	103	89	79	72	87	78	71	85	77	71	83	76	70	68
8	100	83	73	66	98	82	73	66	81	72	66	79	71	65	78	70	65	63
9	94	78	68	61	92	77	67	61	76	67	61	74	66	61	73	66	60	58
10	89	73	63	57	87	72	63	57	71	62	56	70	62	56	68	61	56	54

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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

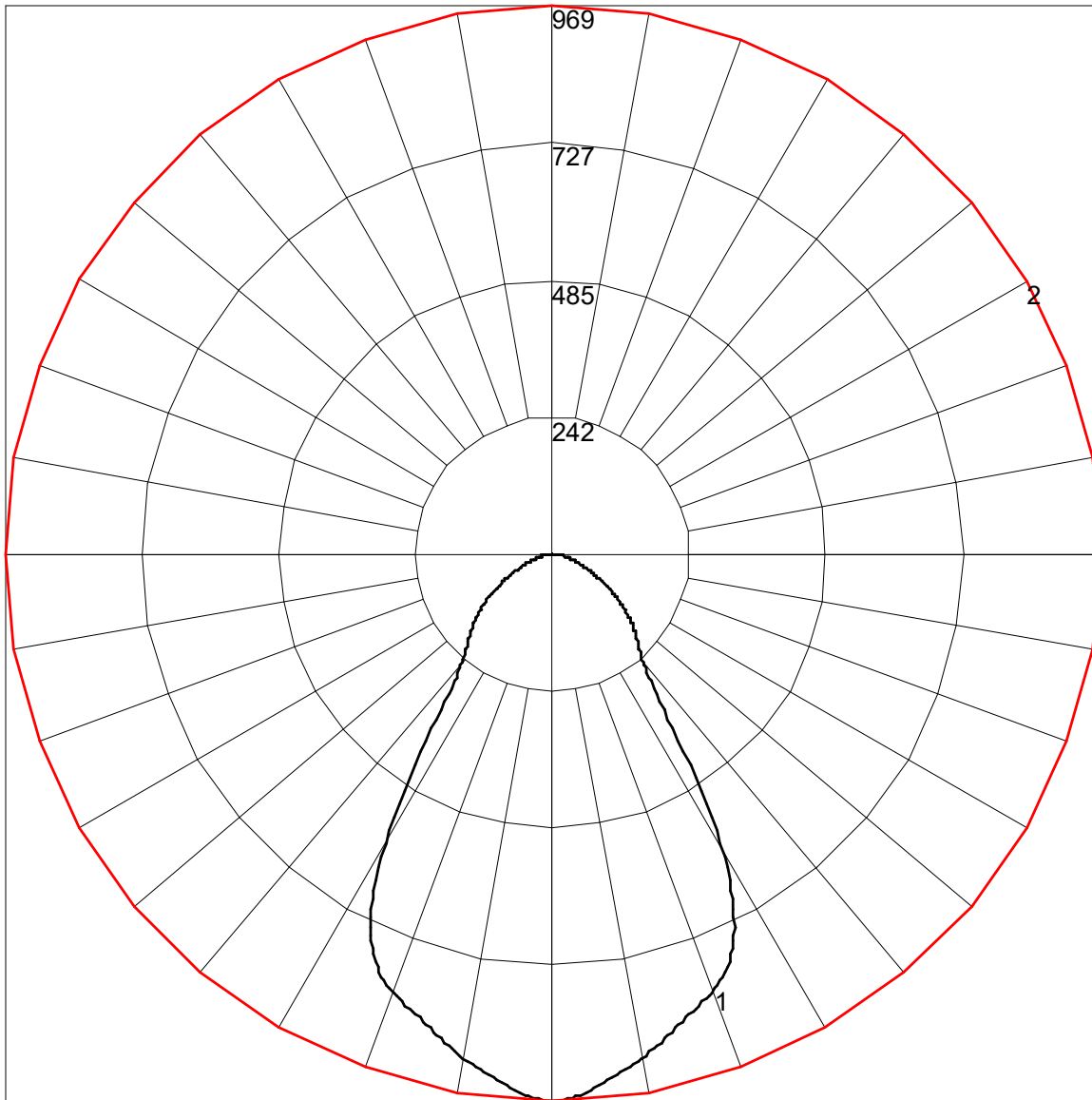
X=2H	Y=2H	17.7	19.0	18.1	19.3	19.6	17.7	19.0	18.1	19.3	19.6
	3H	18.7	19.8	19.1	20.2	20.5	18.7	19.8	19.1	20.2	20.5
	4H	18.9	20.0	19.3	20.4	20.7	18.9	20.0	19.3	20.4	20.7
	6H	19.1	20.1	19.5	20.5	20.9	19.1	20.1	19.5	20.5	20.9
	8H	19.1	20.1	19.6	20.5	20.9	19.1	20.1	19.6	20.5	20.9
	12H	19.2	20.1	19.6	20.5	20.9	19.2	20.1	19.6	20.5	20.9

UGR Viewed Endwise

4H	2H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5	19.9
	3H	19.2	20.1	19.6	20.5	20.9	19.2	20.1	19.6	20.5	20.9
	4H	19.5	20.3	19.9	20.7	21.2	19.5	20.3	19.9	20.7	21.2
	6H	19.8	20.5	20.2	20.9	21.4	19.8	20.5	20.2	20.9	21.4
	8H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.3	20.9	21.4
	12H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.4
8H	4H	19.6	20.2	20.0	20.7	21.1	19.6	20.2	20.0	20.7	21.1
	6H	19.9	20.4	20.4	20.9	21.4	19.9	20.4	20.4	20.9	21.4
	8H	20.1	20.5	20.6	21.0	21.5	20.1	20.5	20.6	21.0	21.5
	12H	20.2	20.6	20.7	21.1	21.6	20.2	20.6	20.7	21.1	21.6
12H	4H	19.6	20.1	20.1	20.6	21.1	19.6	20.1	20.1	20.6	21.1
	6H	19.9	20.4	20.5	20.9	21.4	19.9	20.4	20.5	20.9	21.4
	8H	20.1	20.5	20.6	21.0	21.6	20.1	20.5	20.6	21.0	21.6

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 969.128 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.)