



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.12

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P10-835-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	926
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	11.5
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	12504	12504	12504
55	10428	10428	10428
65	7357	7357	7357
75	4507	4507	4507
85	3554	3554	3554

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-RW-OF-WH_.IES

CANDELA TABULATION

	<u>0</u>
0.0	685.048
0.5	684.407
1.0	683.766
1.5	683.125
2.0	681.844
2.5	679.921
3.0	677.999
3.5	675.435
4.0	672.872
4.5	670.949
5.0	668.386
5.5	665.823
6.0	663.259
6.5	660.696
7.0	658.133
7.5	655.569
8.0	652.365
8.5	649.802
9.0	647.239
9.5	644.035
10.0	641.471
10.5	638.331
11.0	635.255
11.5	632.179
12.0	629.103
12.5	626.091
13.0	623.015
13.5	619.811
14.0	616.671
14.5	613.595
15.0	610.711
15.5	607.764
16.0	604.880
16.5	602.060
17.0	599.433
17.5	596.805
18.0	594.242
18.5	591.807
19.0	589.372
19.5	586.872
20.0	584.309
20.5	581.554
21.0	578.414
21.5	574.825
22.0	570.788
22.5	566.302
23.0	561.432
23.5	555.920
24.0	549.897
24.5	543.296
25.0	535.991
25.5	528.108
26.0	519.329
26.5	509.716

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	499.463
27.5	488.313
28.0	476.457
28.5	463.577
29.0	449.991
29.5	435.252
30.0	419.616
30.5	403.082
31.0	385.908
31.5	368.349
32.0	350.470
32.5	332.719
33.0	315.160
33.5	298.178
34.0	281.901
34.5	266.585
35.0	252.615
35.5	239.799
36.0	228.520
36.5	218.523
37.0	209.744
37.5	202.246
38.0	195.646
38.5	189.814
39.0	184.751
39.5	180.266
40.0	176.164
40.5	172.447
41.0	168.987
41.5	165.847
42.0	162.963
42.5	160.208
43.0	157.580
43.5	155.081
44.0	152.710
44.5	150.467
45.0	148.160
45.5	145.981
46.0	143.738
46.5	141.559
47.0	139.317
47.5	137.074
48.0	134.767
48.5	132.460
49.0	130.281
49.5	128.038
50.0	125.667
50.5	123.232
51.0	120.732
51.5	118.233
52.0	115.734
52.5	113.171
53.0	110.671
53.5	108.236
54.0	105.545
54.5	102.853

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	100.226
55.5	97.534
56.0	94.907
56.5	92.280
57.0	89.652
57.5	87.025
58.0	84.526
58.5	81.962
59.0	79.463
59.5	77.028
60.0	74.593
60.5	72.158
61.0	69.786
61.5	67.479
62.0	65.172
62.5	62.930
63.0	60.687
63.5	58.444
64.0	56.329
64.5	54.150
65.0	52.100
65.5	49.985
66.0	47.998
66.5	46.012
67.0	44.089
67.5	42.167
68.0	40.308
68.5	38.450
69.0	36.720
69.5	34.925
70.0	33.259
70.5	31.593
71.0	29.991
71.5	28.453
72.0	26.915
72.5	25.505
73.0	24.159
73.5	22.942
74.0	21.724
74.5	20.635
75.0	19.545
75.5	18.584
76.0	17.623
76.5	16.790
77.0	16.021
77.5	15.252
78.0	14.483
78.5	13.714
79.0	13.009
79.5	12.304
80.0	11.599
80.5	10.894
81.0	10.189
81.5	9.548
82.0	8.843
82.5	8.203

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-RW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

83.0	7.562
83.5	6.985
84.0	6.344
84.5	5.767
85.0	5.191
85.5	4.614
86.0	4.037
86.5	3.460
87.0	2.948
87.5	2.371
88.0	1.922
88.5	1.538
89.0	1.218
89.5	0.897
90.0	0.641
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-P10-835-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
119.0	0.000
119.5	0.000
120.0	0.000
120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
122.5	0.000
123.0	0.000
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-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
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-RW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	235.40	N.A.	25.40
0-30	475.88	N.A.	51.40
0-40	642.26	N.A.	69.40
0-60	846.44	N.A.	91.40
0-80	920.15	N.A.	99.40
0-90	926.07	N.A.	100.00
10-90	863.14	N.A.	93.20
20-40	406.87	N.A.	43.90
20-50	521.66	N.A.	56.30
40-70	256.20	N.A.	27.70
60-80	73.71	N.A.	8.00
70-80	21.69	N.A.	2.30
80-90	5.91	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	926.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.93
10-20	172.47
20-30	240.48
30-40	166.38
40-50	114.79
50-60	89.39
60-70	52.02
70-80	21.69
80-90	5.91
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-RW-OF-WH_.IES

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	101	101	101	101	99	99	99	99	94	94	94	90	90	90	87	87	87	85
1	95	92	89	86	93	90	87	85	86	84	82	83	81	80	80	79	78	76
2	88	83	78	75	86	81	77	74	78	75	72	76	73	71	73	71	69	67
3	82	75	70	65	80	74	69	65	72	67	64	69	66	63	67	64	62	60
4	77	69	63	58	75	68	62	58	66	61	57	64	60	56	62	59	56	54
5	72	63	57	52	70	62	56	52	61	55	51	59	54	51	58	54	51	49
6	67	58	52	47	66	57	51	47	56	51	47	55	50	46	53	49	46	45
7	63	54	48	43	62	53	47	43	52	47	43	51	46	43	50	46	42	41
8	60	50	44	40	59	49	44	40	48	43	39	48	43	39	47	42	39	38
9	56	47	41	37	55	46	41	37	45	40	36	45	40	36	44	39	36	35
10	53	44	38	34	52	43	38	34	43	37	34	42	37	34	41	37	34	32

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V6DR-P10-835-POE-RW-OF-WH_.IES

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	18.2	19.5	18.5	19.8	20.1	18.2	19.5	18.5	19.8	20.1
	3H	19.1	20.3	19.5	20.6	21.0	19.1	20.3	19.5	20.6	21.0
	4H	19.4	20.5	19.8	20.8	21.2	19.4	20.5	19.8	20.8	21.2
	6H	19.5	20.6	20.0	20.9	21.3	19.5	20.6	20.0	20.9	21.3
	8H	19.6	20.6	20.0	21.0	21.4	19.6	20.6	20.0	21.0	21.4
	12H	19.6	20.6	20.1	20.9	21.4	19.6	20.6	20.1	20.9	21.4

UGR Viewed Endwise

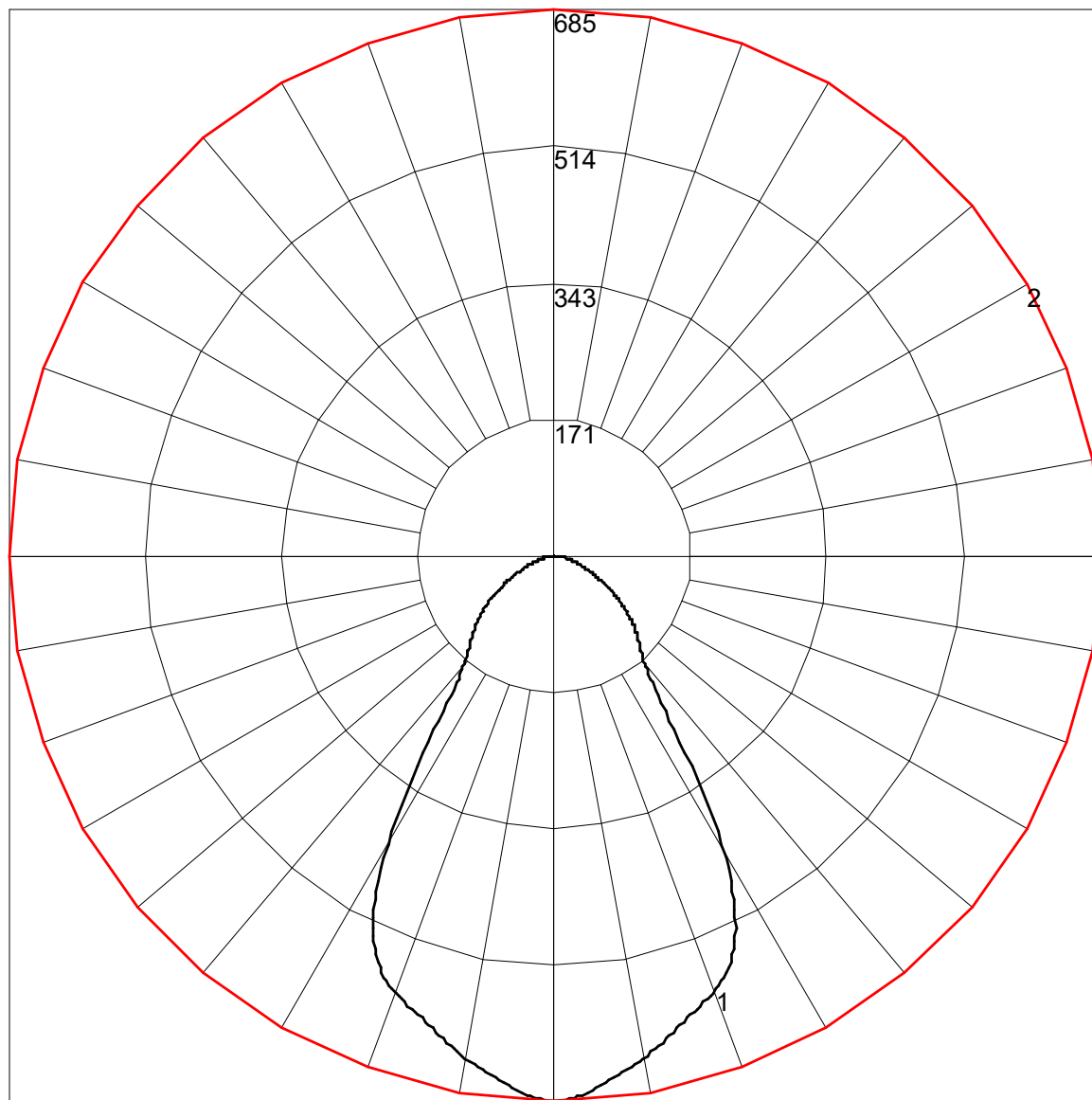
4H	2H	18.5	19.6	18.9	19.9	20.3	18.5	19.6	18.9	19.9	20.3
	3H	19.6	20.5	20.0	20.9	21.3	19.6	20.5	20.0	20.9	21.3
	4H	20.0	20.8	20.4	21.2	21.6	20.0	20.8	20.4	21.2	21.6
	6H	20.2	20.9	20.7	21.4	21.8	20.2	20.9	20.7	21.4	21.8
	8H	20.3	20.9	20.8	21.4	21.9	20.3	20.9	20.8	21.4	21.9
	12H	20.4	20.9	20.8	21.4	21.9	20.4	20.9	20.8	21.4	21.9

8H	4H	20.0	20.7	20.5	21.1	21.6	20.0	20.7	20.5	21.1	21.6
	6H	20.4	20.9	20.9	21.4	21.9	20.4	20.9	20.9	21.4	21.9
	8H	20.5	21.0	21.0	21.5	22.0	20.5	21.0	21.0	21.5	22.0
	12H	20.6	21.0	21.1	21.5	22.1	20.6	21.0	21.1	21.5	22.1

12H	4H	20.0	20.6	20.5	21.1	21.6	20.0	20.6	20.5	21.1	21.6
	6H	20.4	20.9	20.9	21.3	21.9	20.4	20.9	20.9	21.3	21.9
	8H	20.5	21.0	21.1	21.5	22.0	20.5	21.0	21.1	21.5	22.0

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 685.048 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.)