



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L53-835-DIM-UNV-LW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 9 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-L53-835-DIM-UNV-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	5344
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	74.4
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	88842	88842	88842
55	73965	73965	73965
65	56192	56192	56192
75	40750	40750	40750
85	26555	26555	26555

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V6DR-L53-835-DIM-UNV-LW-OF-WH\_.IES

CANDELA TABULATION

	<u>0</u>
0.0	3399.604
0.5	3398.919
1.0	3396.181
1.5	3392.074
2.0	3386.941
2.5	3380.096
3.0	3373.250
3.5	3365.379
4.0	3358.191
4.5	3351.004
5.0	3345.870
5.5	3341.079
6.0	3336.629
6.5	3332.180
7.0	3327.388
7.5	3322.939
8.0	3318.490
8.5	3314.383
9.0	3310.276
9.5	3306.853
10.0	3303.431
10.5	3300.693
11.0	3298.297
11.5	3296.928
12.0	3294.532
12.5	3292.136
13.0	3288.714
13.5	3284.265
14.0	3278.788
14.5	3272.628
15.0	3266.125
15.5	3257.911
16.0	3249.012
16.5	3240.114
17.0	3231.215
17.5	3221.974
18.0	3212.049
18.5	3200.755
19.0	3188.091
19.5	3174.059
20.0	3157.973
20.5	3140.518
21.0	3118.956
21.5	3093.287
22.0	3064.196
22.5	3031.339
23.0	2995.403
23.5	2956.386
24.0	2913.262
24.5	2866.715
25.0	2816.404
25.5	2764.039
26.0	2708.252
26.5	2650.069

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V6DR-L53-835-DIM-UNV-LW-OF-WH\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	2588.121
27.5	2524.462
28.0	2457.380
28.5	2386.534
29.0	2312.949
29.5	2235.600
30.0	2156.197
30.5	2074.398
31.0	1992.600
31.5	1910.117
32.0	1830.029
32.5	1753.365
33.0	1679.780
33.5	1610.987
34.0	1547.670
34.5	1490.172
35.0	1438.834
35.5	1391.603
36.0	1350.190
36.5	1312.200
37.0	1278.317
37.5	1247.856
38.0	1220.134
38.5	1194.807
39.0	1170.849
39.5	1149.287
40.0	1128.410
40.5	1108.901
41.0	1090.762
41.5	1072.965
42.0	1055.852
42.5	1040.108
43.0	1024.022
43.5	1008.279
44.0	992.877
44.5	977.818
45.0	962.417
45.5	947.700
46.0	932.641
46.5	917.582
47.0	902.180
47.5	887.121
48.0	871.720
48.5	856.318
49.0	840.917
49.5	824.831
50.0	809.430
50.5	793.686
51.0	777.942
51.5	761.856
52.0	745.770
52.5	729.684
53.0	713.599
53.5	697.513
54.0	682.111
54.5	666.368

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V6DR-L53-835-DIM-UNV-LW-OF-WH\_.IES

CANDELA TABULATION - (Cont.)

55.0	649.939
55.5	633.853
56.0	617.768
56.5	602.708
57.0	587.649
57.5	571.906
58.0	556.162
58.5	540.761
59.0	525.701
59.5	510.642
60.0	496.268
60.5	481.893
61.0	467.861
61.5	453.828
62.0	440.480
62.5	427.132
63.0	414.127
63.5	401.121
64.0	388.458
64.5	376.137
65.0	363.815
65.5	351.837
66.0	339.892
66.5	328.153
67.0	316.550
67.5	305.187
68.0	294.030
68.5	282.838
69.0	271.989
69.5	261.242
70.0	250.803
70.5	240.707
71.0	230.816
71.5	221.233
72.0	211.992
72.5	203.025
73.0	194.297
73.5	185.741
74.0	177.527
74.5	169.484
75.0	161.578
75.5	153.946
76.0	146.450
76.5	139.092
77.0	131.939
77.5	124.923
78.0	118.112
78.5	111.438
79.0	104.901
79.5	98.603
80.0	92.340
80.5	86.282
81.0	80.293
81.5	74.337
82.0	68.519
82.5	62.735

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : V6DR-L53-835-DIM-UNV-LW-OF-WH\_.IES

CANDELA TABULATION - (Cont.)

83.0	57.088
83.5	51.543
84.0	46.067
84.5	40.694
85.0	35.457
85.5	30.392
86.0	25.498
86.5	20.775
87.0	16.189
87.5	12.355
88.0	9.446
88.5	6.914
89.0	4.792
89.5	3.012
90.0	1.917
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-L53-835-DIM-UNV-LW-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-L53-835-DIM-UNV-LW-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-L53-835-DIM-UNV-LW-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-L53-835-DIM-UNV-LW-OF-WH\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1238.37	N.A.	23.20
0-30	2503.24	N.A.	46.80
0-40	3441.16	N.A.	64.40
0-60	4765.48	N.A.	89.20
0-80	5301.89	N.A.	99.20
0-90	5344.28	N.A.	100.00
10-90	5026.15	N.A.	94.00
20-40	2202.79	N.A.	41.20
20-50	2946.00	N.A.	55.10
40-70	1686.97	N.A.	31.60
60-80	536.41	N.A.	10.00
70-80	173.77	N.A.	3.30
80-90	42.39	N.A.	0.80
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5344.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	318.13
10-20	920.23
20-30	1264.87
30-40	937.92
40-50	743.21
50-60	581.11
60-70	362.65
70-80	173.77
80-90	42.39
90-100	0.05
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-L53-835-DIM-UNV-LW-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V6DR-L53-835-DIM-UNV-LW-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	24.8	26.2	25.2	26.5	26.8	24.8	26.2	25.2	26.5	26.8
	3H	26.0	27.3	26.4	27.6	27.9	26.0	27.3	26.4	27.6	27.9
	4H	26.4	27.6	26.8	27.9	28.3	26.4	27.6	26.8	27.9	28.3
	6H	26.7	27.7	27.1	28.1	28.5	26.7	27.7	27.1	28.1	28.5
	8H	26.7	27.8	27.2	28.2	28.6	26.7	27.8	27.2	28.2	28.6
	12H	26.8	27.8	27.2	28.1	28.6	26.8	27.8	27.2	28.1	28.6

UGR Viewed Endwise

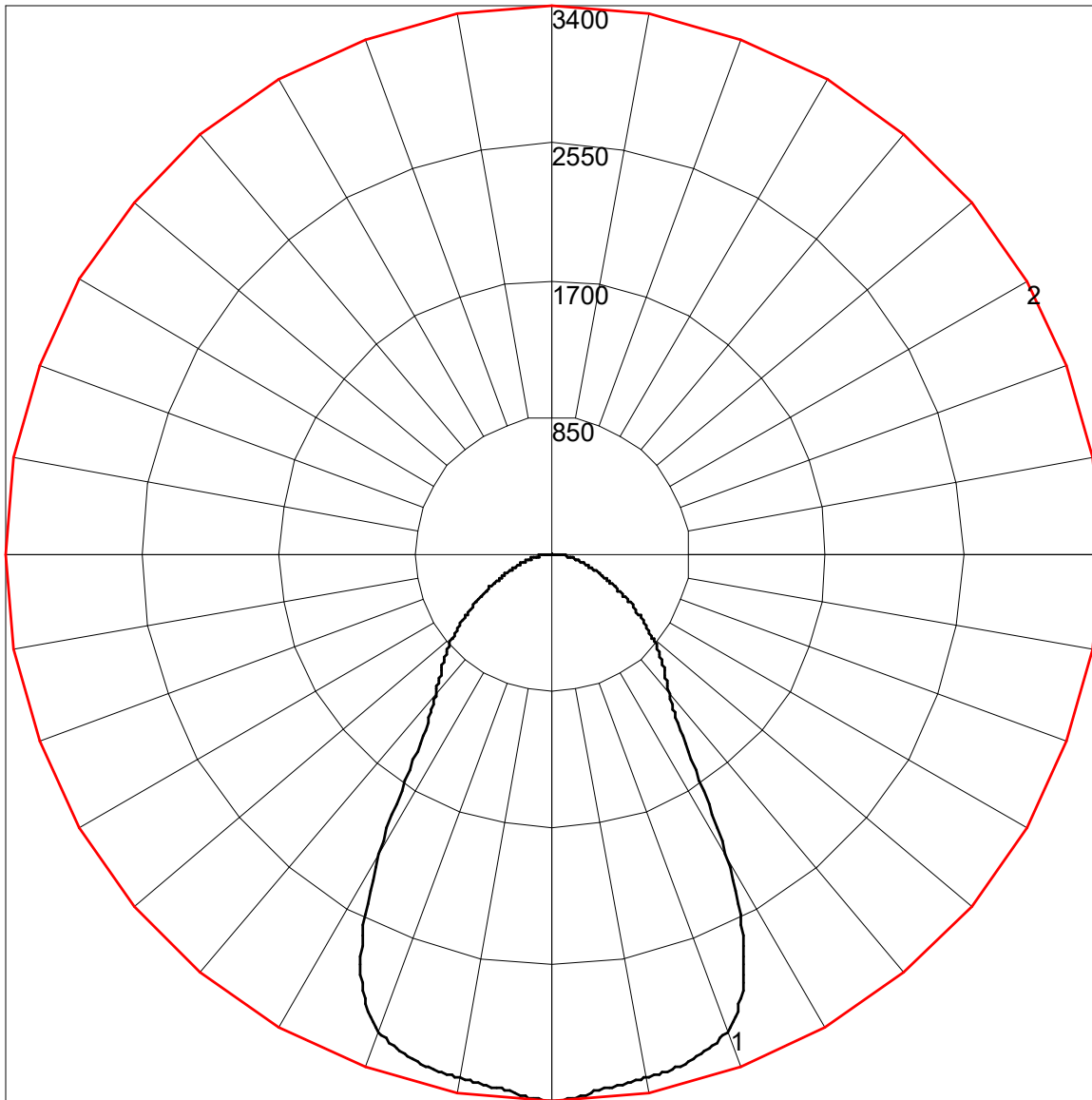
4H	2H	25.2	26.4	25.6	26.7	27.1	25.2	26.4	25.6	26.7	27.1
	3H	26.6	27.6	27.0	28.0	28.4	26.6	27.6	27.0	28.0	28.4
	4H	27.1	28.0	27.5	28.4	28.8	27.1	28.0	27.5	28.4	28.8
	6H	27.5	28.2	28.0	28.7	29.1	27.5	28.2	28.0	28.7	29.1
	8H	27.6	28.3	28.0	28.7	29.2	27.6	28.3	28.0	28.7	29.2
	12H	27.7	28.3	28.1	28.8	29.2	27.7	28.3	28.1	28.8	29.2

8H	4H	27.3	28.0	27.7	28.4	28.9	27.3	28.0	27.7	28.4	28.9
	6H	27.7	28.3	28.2	28.8	29.3	27.7	28.3	28.2	28.8	29.3
	8H	27.9	28.4	28.4	28.9	29.4	27.9	28.4	28.4	28.9	29.4
	12H	28.0	28.5	28.5	29.0	29.5	28.0	28.5	28.5	29.0	29.5

12H	4H	27.3	27.9	27.7	28.4	28.8	27.3	27.9	27.7	28.4	28.8
	6H	27.8	28.3	28.3	28.7	29.3	27.8	28.3	28.3	28.7	29.3
	8H	28.0	28.4	28.5	28.9	29.5	28.0	28.4	28.5	28.9	29.5

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 3399.604 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.)