



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P53-835-POE-LW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P53-835-PoE-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	5261
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	69
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	87453	87453	87453
55	72808	72808	72808
65	55313	55313	55313
75	40113	40113	40113
85	26140	26140	26140

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CANDELA TABULATION

	<u>0</u>
0.0	3346.428
0.5	3345.754
1.0	3343.059
1.5	3339.016
2.0	3333.962
2.5	3327.224
3.0	3320.486
3.5	3312.738
4.0	3305.663
4.5	3298.588
5.0	3293.534
5.5	3288.818
6.0	3284.438
6.5	3280.058
7.0	3275.342
7.5	3270.962
8.0	3266.582
8.5	3262.540
9.0	3258.497
9.5	3255.128
10.0	3251.759
10.5	3249.064
11.0	3246.705
11.5	3245.358
12.0	3242.999
12.5	3240.641
13.0	3237.272
13.5	3232.892
14.0	3227.502
14.5	3221.438
15.0	3215.037
15.5	3206.951
16.0	3198.192
16.5	3189.432
17.0	3180.673
17.5	3171.577
18.0	3161.806
18.5	3150.689
19.0	3138.223
19.5	3124.411
20.0	3108.576
20.5	3091.394
21.0	3070.170
21.5	3044.902
22.0	3016.266
22.5	2983.923
23.0	2948.549
23.5	2910.142
24.0	2867.693
24.5	2821.874
25.0	2772.350
25.5	2720.804
26.0	2665.890
26.5	2608.617

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	2547.638
<b>27.5</b>	2484.974
<b>28.0</b>	2418.942
<b>28.5</b>	2349.204
<b>29.0</b>	2276.770
<b>29.5</b>	2200.631
<b>30.0</b>	2122.470
<b>30.5</b>	2041.951
<b>31.0</b>	1961.432
<b>31.5</b>	1880.239
<b>32.0</b>	1801.404
<b>32.5</b>	1725.939
<b>33.0</b>	1653.505
<b>33.5</b>	1585.788
<b>34.0</b>	1523.462
<b>34.5</b>	1466.863
<b>35.0</b>	1416.328
<b>35.5</b>	1369.835
<b>36.0</b>	1329.070
<b>36.5</b>	1291.675
<b>37.0</b>	1258.321
<b>37.5</b>	1228.337
<b>38.0</b>	1201.048
<b>38.5</b>	1176.118
<b>39.0</b>	1152.535
<b>39.5</b>	1131.310
<b>40.0</b>	1110.759
<b>40.5</b>	1091.556
<b>41.0</b>	1073.700
<b>41.5</b>	1056.181
<b>42.0</b>	1039.336
<b>42.5</b>	1023.839
<b>43.0</b>	1008.005
<b>43.5</b>	992.507
<b>44.0</b>	977.347
<b>44.5</b>	962.523
<b>45.0</b>	947.363
<b>45.5</b>	932.876
<b>46.0</b>	918.052
<b>46.5</b>	903.229
<b>47.0</b>	888.068
<b>47.5</b>	873.245
<b>48.0</b>	858.084
<b>48.5</b>	842.924
<b>49.0</b>	827.763
<b>49.5</b>	811.929
<b>50.0</b>	796.768
<b>50.5</b>	781.271
<b>51.0</b>	765.774
<b>51.5</b>	749.939
<b>52.0</b>	734.105
<b>52.5</b>	718.271
<b>53.0</b>	702.436
<b>53.5</b>	686.602
<b>54.0</b>	671.442
<b>54.5</b>	655.944

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**CANDELA TABULATION - (Cont.)**

55.0	639.773
55.5	623.939
56.0	608.104
56.5	593.281
57.0	578.457
57.5	562.960
58.0	547.462
58.5	532.302
59.0	517.478
59.5	502.655
60.0	488.505
60.5	474.355
61.0	460.542
61.5	446.729
62.0	433.590
62.5	420.451
63.0	407.649
63.5	394.847
64.0	382.381
64.5	370.253
65.0	358.125
65.5	346.333
66.0	334.575
66.5	323.020
67.0	311.599
67.5	300.414
68.0	289.431
68.5	278.414
69.0	267.734
69.5	257.156
70.0	246.880
70.5	236.942
71.0	227.205
71.5	217.772
72.0	208.676
72.5	199.849
73.0	191.258
73.5	182.836
74.0	174.750
74.5	166.833
75.0	159.050
75.5	151.538
76.0	144.160
76.5	136.916
77.0	129.875
77.5	122.968
78.0	116.264
78.5	109.695
79.0	103.260
79.5	97.061
80.0	90.896
80.5	84.932
81.0	79.037
81.5	73.175
82.0	67.447
82.5	61.754

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CANDELA TABULATION - (Cont.)

83.0	56.195
83.5	50.737
84.0	45.347
84.5	40.057
85.0	34.903
85.5	29.917
86.0	25.099
86.5	20.450
87.0	15.935
87.5	12.162
88.0	9.298
88.5	6.805
89.0	4.717
89.5	2.965
90.0	1.887
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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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
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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

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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
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145.5	0.000
146.0	0.000
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147.5	0.000
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150.5	0.000
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152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
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159.5	0.000
160.0	0.000
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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	1219.00	N.A.	23.20
0-30	2464.08	N.A.	46.80
0-40	3387.33	N.A.	64.40
0-60	4690.93	N.A.	89.20
0-80	5218.96	N.A.	99.20
0-90	5260.68	N.A.	100.00
10-90	4947.53	N.A.	94.00
20-40	2168.33	N.A.	41.20
20-50	2899.92	N.A.	55.10
40-70	1660.58	N.A.	31.60
60-80	528.02	N.A.	10.00
70-80	171.05	N.A.	3.30
80-90	41.73	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	5260.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	313.16
10-20	905.84
20-30	1245.09
30-40	923.25
40-50	731.59
50-60	572.02
60-70	356.98
70-80	171.05
80-90	41.73
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

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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	634	634	634	634	619	619	619	619	592	592	592	566	566	566	543	543	543	532
1	591	571	552	536	577	559	542	527	537	523	511	516	505	495	497	489	481	470
2	548	512	483	458	535	503	476	453	485	462	442	468	449	433	452	437	423	413
3	509	463	427	398	497	455	421	394	440	411	388	426	402	381	413	393	375	365
4	474	420	381	351	463	413	377	348	401	369	344	389	362	340	378	355	335	325
5	442	384	343	313	432	378	340	311	367	334	308	358	328	305	348	323	302	292
6	413	352	311	282	404	347	309	281	339	304	279	330	300	276	322	295	274	265
7	387	325	284	256	379	321	283	255	313	279	254	306	275	252	299	272	250	241
8	364	301	261	234	357	298	260	234	291	257	232	285	254	231	279	251	230	221
9	343	280	242	216	336	277	240	215	272	238	214	266	235	213	261	233	212	204
10	324	262	224	199	318	259	223	199	254	221	198	250	219	198	245	217	197	189

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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	19.0	20.4	19.4	20.7	21.0	19.0	20.4	19.4	20.7	21.0
	3H	20.2	21.5	20.6	21.8	22.1	20.2	21.5	20.6	21.8	22.1
	4H	20.6	21.8	21.0	22.1	22.5	20.6	21.8	21.0	22.1	22.5
	6H	20.9	21.9	21.3	22.3	22.7	20.9	21.9	21.3	22.3	22.7
	8H	21.0	22.0	21.4	22.4	22.8	21.0	22.0	21.4	22.4	22.8
	12H	21.0	22.0	21.4	22.3	22.8	21.0	22.0	21.4	22.3	22.8

UGR Viewed Endwise

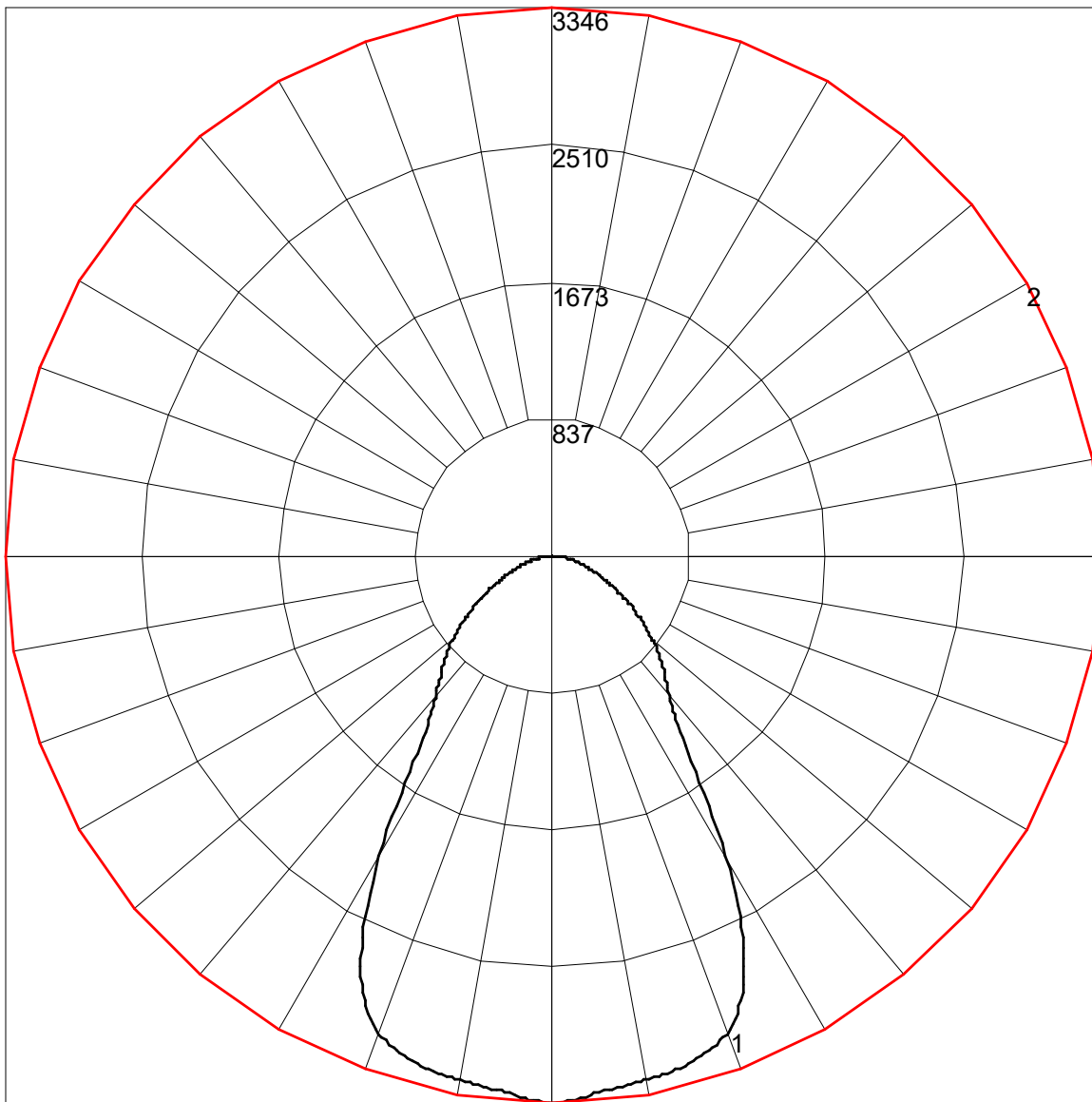
4H	2H	19.4	20.6	19.8	20.9	21.3	19.4	20.6	19.8	20.9	21.3
	3H	20.8	21.8	21.2	22.2	22.6	20.8	21.8	21.2	22.2	22.6
	4H	21.3	22.2	21.8	22.6	23.0	21.3	22.2	21.8	22.6	23.0
	6H	21.7	22.4	22.2	22.9	23.3	21.7	22.4	22.2	22.9	23.3
	8H	21.8	22.5	22.2	22.9	23.4	21.8	22.5	22.2	22.9	23.4
	12H	21.9	22.5	22.3	23.0	23.4	21.9	22.5	22.3	23.0	23.4

8H	4H	21.5	22.2	21.9	22.6	23.1	21.5	22.2	21.9	22.6	23.1
	6H	21.9	22.5	22.4	23.0	23.5	21.9	22.5	22.4	23.0	23.5
	8H	22.1	22.6	22.6	23.1	23.6	22.1	22.6	22.6	23.1	23.6
	12H	22.2	22.7	22.7	23.2	23.7	22.2	22.7	22.7	23.2	23.7

12H	4H	21.5	22.1	22.0	22.6	23.0	21.5	22.1	22.0	22.6	23.0
	6H	22.0	22.5	22.5	22.9	23.5	22.0	22.5	22.5	22.9	23.5
	8H	22.2	22.6	22.7	23.1	23.7	22.2	22.6	22.7	23.1	23.7

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 3346.428 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.)