



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P53-835-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-P53-835-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	4932
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	69
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	66598	66598	66598
55	55540	55540	55540
65	39183	39183	39183
75	24003	24003	24003
85	18930	18930	18930

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CANDELA TABULATION

	<u>0</u>
0.0	3648.656
0.5	3645.243
1.0	3641.830
1.5	3638.417
2.0	3631.591
2.5	3621.351
3.0	3611.112
3.5	3597.459
4.0	3583.807
4.5	3573.567
5.0	3559.915
5.5	3546.262
6.0	3532.609
6.5	3518.957
7.0	3505.304
7.5	3491.652
8.0	3474.586
8.5	3460.933
9.0	3447.281
9.5	3430.215
10.0	3416.562
10.5	3399.838
11.0	3383.455
11.5	3367.072
12.0	3350.688
12.5	3334.647
13.0	3318.264
13.5	3301.198
14.0	3284.473
14.5	3268.090
15.0	3252.731
15.5	3237.031
16.0	3221.671
16.5	3206.654
17.0	3192.660
17.5	3178.666
18.0	3165.013
18.5	3152.043
19.0	3139.073
19.5	3125.762
20.0	3112.109
20.5	3097.433
21.0	3080.708
21.5	3061.595
22.0	3040.092
22.5	3016.200
23.0	2990.260
23.5	2960.907
24.0	2928.823
24.5	2893.668
25.0	2854.758
25.5	2812.776
26.0	2766.016
26.5	2714.819

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**CANDELA TABULATION - (Cont.)**

27.0	2660.208
27.5	2600.820
28.0	2537.676
28.5	2469.072
29.0	2396.713
29.5	2318.211
30.0	2234.930
30.5	2146.871
31.0	2055.398
31.5	1961.878
32.0	1866.651
32.5	1772.107
33.0	1678.587
33.5	1588.138
34.0	1501.444
34.5	1419.870
35.0	1345.463
35.5	1277.200
36.0	1217.129
36.5	1163.884
37.0	1117.124
37.5	1077.190
38.0	1042.034
38.5	1010.975
39.0	984.011
39.5	960.119
40.0	938.275
40.5	918.478
41.0	900.047
41.5	883.323
42.0	867.964
42.5	853.287
43.0	839.293
43.5	825.982
44.0	813.353
44.5	801.407
45.0	789.120
45.5	777.515
46.0	765.569
46.5	753.965
47.0	742.019
47.5	730.073
48.0	717.785
48.5	705.498
49.0	693.893
49.5	681.947
50.0	669.319
50.5	656.349
51.0	643.037
51.5	629.726
52.0	616.415
52.5	602.762
53.0	589.451
53.5	576.481
54.0	562.146
54.5	547.810

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**CANDELA TABULATION - (Cont.)**

55.0	533.817
55.5	519.481
56.0	505.487
56.5	491.493
57.0	477.500
57.5	463.506
58.0	450.194
58.5	436.542
59.0	423.230
59.5	410.261
60.0	397.291
60.5	384.321
61.0	371.692
61.5	359.405
62.0	347.117
62.5	335.171
63.0	323.225
63.5	311.279
64.0	300.016
64.5	288.411
65.0	277.489
65.5	266.226
66.0	255.645
66.5	245.064
67.0	234.825
67.5	224.585
68.0	214.687
68.5	204.789
69.0	195.573
69.5	186.017
70.0	177.142
70.5	168.268
71.0	159.735
71.5	151.544
72.0	143.352
72.5	135.843
73.0	128.676
73.5	122.191
74.0	115.706
74.5	109.903
75.0	104.101
75.5	98.981
76.0	93.862
76.5	89.425
77.0	85.329
77.5	81.233
78.0	77.137
78.5	73.041
79.0	69.287
79.5	65.532
80.0	61.778
80.5	58.024
81.0	54.269
81.5	50.856
82.0	47.101
82.5	43.688

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CANDELA TABULATION - (Cont.)

83.0	40.275
83.5	37.203
84.0	33.790
84.5	30.718
85.0	27.647
85.5	24.575
86.0	21.503
86.5	18.431
87.0	15.700
87.5	12.629
88.0	10.239
88.5	8.192
89.0	6.485
89.5	4.778
90.0	3.413
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
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
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126.5	0.000
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132.5	0.000
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133.5	0.000
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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
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

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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	1253.75	N.A.	25.40
0-30	2534.6	N.A.	51.40
0-40	3420.78	N.A.	69.40
0-60	4508.27	N.A.	91.40
0-80	4900.87	N.A.	99.40
0-90	4932.35	N.A.	100.00
10-90	4597.18	N.A.	93.20
20-40	2167.03	N.A.	43.90
20-50	2778.44	N.A.	56.30
40-70	1364.57	N.A.	27.70
60-80	392.59	N.A.	8.00
70-80	115.51	N.A.	2.30
80-90	31.48	N.A.	0.60
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4932.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	335.17
10-20	918.58
20-30	1280.85
30-40	886.18
40-50	611.41
50-60	476.08
60-70	277.08
70-80	115.51
80-90	31.48
90-100	0.09
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	567	567	567	544	544	544	533
1	594	575	557	542	580	563	547	533	541	528	516	520	510	501	502	494	486	476
2	554	520	492	468	541	510	484	463	492	471	452	475	458	442	460	446	433	423
3	516	472	438	410	504	464	432	407	449	422	400	435	413	394	423	404	387	377
4	482	431	393	365	471	424	389	362	412	382	358	400	374	353	390	367	349	339
5	451	395	356	328	441	390	353	326	379	347	323	370	342	320	361	336	317	307
6	423	364	325	297	414	360	323	296	351	318	293	343	314	291	335	309	289	280
7	398	337	298	271	389	333	296	270	326	293	269	319	289	267	312	286	265	256
8	375	314	275	249	367	310	274	248	304	271	247	298	268	246	292	265	245	236
9	354	293	255	230	347	290	254	230	284	252	229	279	249	228	274	247	227	218
10	335	274	238	214	329	272	237	213	267	235	213	262	233	212	258	231	211	203

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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

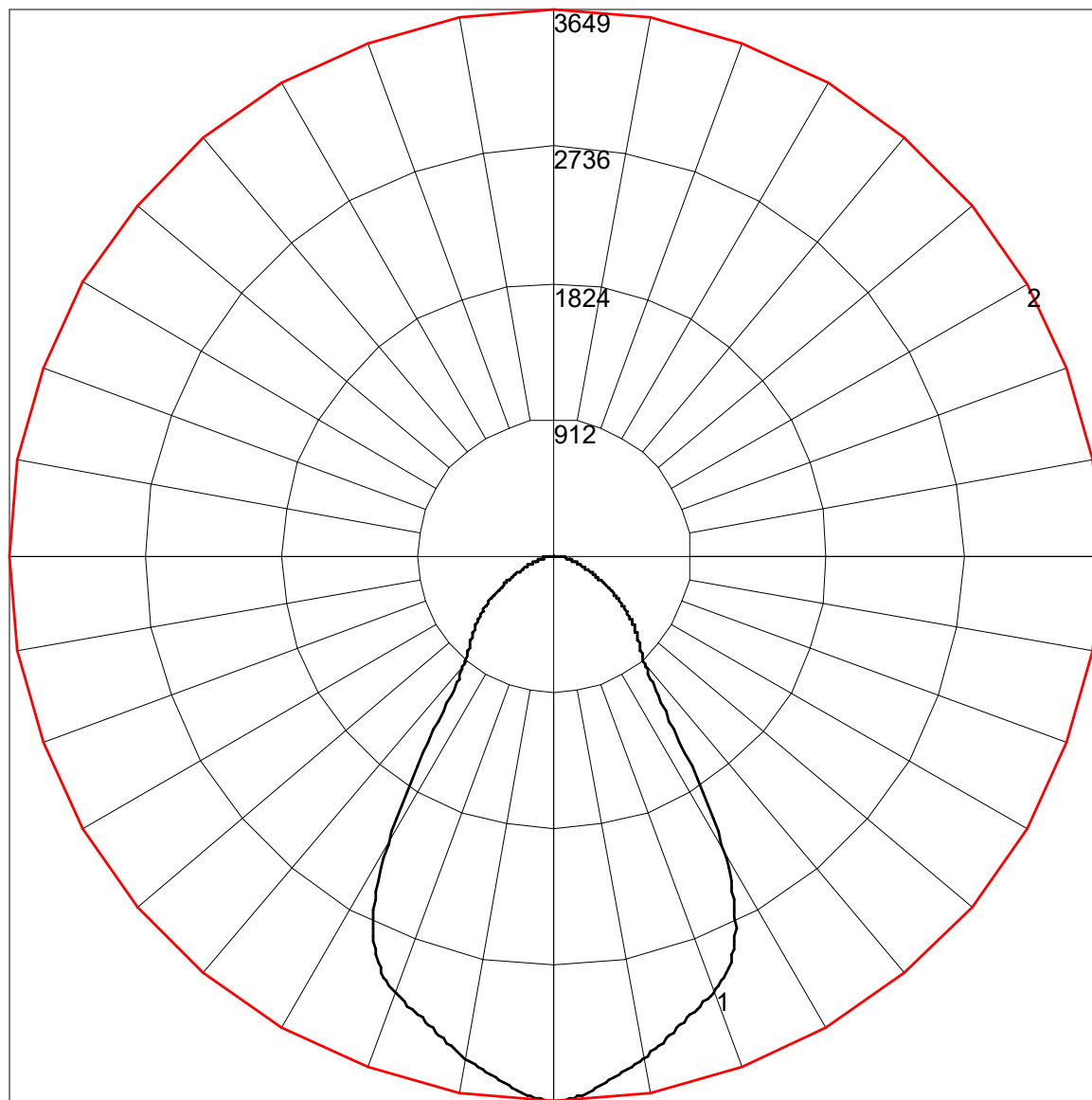
X=2H	Y=2H	17.7	19.0	18.1	19.3	19.6	17.7	19.0	18.1	19.3	19.6
	3H	18.7	19.8	19.1	20.2	20.5	18.7	19.8	19.1	20.2	20.5
	4H	18.9	20.0	19.3	20.4	20.7	18.9	20.0	19.3	20.4	20.7
	6H	19.1	20.1	19.5	20.5	20.9	19.1	20.1	19.5	20.5	20.9
	8H	19.1	20.1	19.6	20.5	20.9	19.1	20.1	19.6	20.5	20.9
	12H	19.2	20.1	19.6	20.5	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 = 3648.656 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.)