



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P38-835-POE-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from ul #12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P38-835-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	3808
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	46.6
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	63299	63299	63299
55	52699	52699	52699
65	40036	40036	40036
75	29034	29034	29034
85	18920	18920	18920

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CANDELA TABULATION

	<u>0</u>
0.0	2422.162
0.5	2421.674
1.0	2419.723
1.5	2416.797
2.0	2413.140
2.5	2408.263
3.0	2403.386
3.5	2397.777
4.0	2392.656
4.5	2387.535
5.0	2383.878
5.5	2380.464
6.0	2377.294
6.5	2374.124
7.0	2370.710
7.5	2367.540
8.0	2364.370
8.5	2361.443
9.0	2358.517
9.5	2356.079
10.0	2353.640
10.5	2351.689
11.0	2349.982
11.5	2349.007
12.0	2347.300
12.5	2345.593
13.0	2343.155
13.5	2339.985
14.0	2336.083
14.5	2331.694
15.0	2327.060
15.5	2321.208
16.0	2314.868
16.5	2308.528
17.0	2302.188
17.5	2295.604
18.0	2288.532
18.5	2280.485
19.0	2271.463
19.5	2261.465
20.0	2250.004
20.5	2237.568
21.0	2222.205
21.5	2203.916
22.0	2183.189
22.5	2159.779
23.0	2134.175
23.5	2106.376
24.0	2075.651
24.5	2042.488
25.0	2006.642
25.5	1969.333
26.0	1929.585
26.5	1888.130

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CANDELA TABULATION - (Cont.)

27.0	1843.994
27.5	1798.638
28.0	1750.843
28.5	1700.366
29.0	1647.938
29.5	1592.828
30.0	1536.255
30.5	1477.975
31.0	1419.695
31.5	1360.927
32.0	1303.866
32.5	1249.244
33.0	1196.816
33.5	1147.802
34.0	1102.690
34.5	1061.723
35.0	1025.145
35.5	991.494
36.0	961.988
36.5	934.921
37.0	910.780
37.5	889.077
38.0	869.325
38.5	851.280
39.0	834.211
39.5	818.848
40.0	803.973
40.5	790.074
41.0	777.150
41.5	764.470
42.0	752.277
42.5	741.060
43.0	729.599
43.5	718.382
44.0	707.409
44.5	696.679
45.0	685.706
45.5	675.221
46.0	664.491
46.5	653.762
47.0	642.789
47.5	632.059
48.0	621.086
48.5	610.113
49.0	599.139
49.5	587.678
50.0	576.705
50.5	565.488
51.0	554.271
51.5	542.810
52.0	531.349
52.5	519.888
53.0	508.427
53.5	496.966
54.0	485.993
54.5	474.776

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CANDELA TABULATION - (Cont.)

55.0	463.071
55.5	451.610
56.0	440.149
56.5	429.420
57.0	418.690
57.5	407.473
58.0	396.256
58.5	385.283
59.0	374.554
59.5	363.824
60.0	353.582
60.5	343.341
61.0	333.343
61.5	323.345
62.0	313.835
62.5	304.325
63.0	295.058
63.5	285.792
64.0	276.770
64.5	267.991
65.0	259.213
65.5	250.678
66.0	242.167
66.5	233.803
67.0	225.537
67.5	217.441
68.0	209.492
68.5	201.518
69.0	193.788
69.5	186.131
70.0	178.693
70.5	171.500
71.0	164.452
71.5	157.625
72.0	151.041
72.5	144.652
73.0	138.434
73.5	132.337
74.0	126.485
74.5	120.755
75.0	115.122
75.5	109.684
76.0	104.343
76.5	99.101
77.0	94.004
77.5	89.005
78.0	84.153
78.5	79.398
79.0	74.740
79.5	70.253
80.0	65.791
80.5	61.475
81.0	57.207
81.5	52.964
82.0	48.819
82.5	44.698

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CANDELA TABULATION - (Cont.)

83.0	40.674
83.5	36.724
84.0	32.822
84.5	28.994
85.0	25.263
85.5	21.654
86.0	18.167
86.5	14.802
87.0	11.534
87.5	8.803
88.0	6.730
88.5	4.926
89.0	3.414
89.5	2.146
90.0	1.366
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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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
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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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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	882.32	N.A.	23.20
0-30	1783.52	N.A.	46.80
0-40	2451.77	N.A.	64.40
0-60	3395.32	N.A.	89.20
0-80	3777.51	N.A.	99.20
0-90	3807.71	N.A.	100.00
10-90	3581.05	N.A.	94.00
20-40	1569.45	N.A.	41.20
20-50	2098.98	N.A.	55.10
40-70	1201.94	N.A.	31.60
60-80	382.19	N.A.	10.00
70-80	123.81	N.A.	3.30
80-90	30.20	N.A.	0.80
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3807.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	226.66
10-20	655.65
20-30	901.20
30-40	668.25
40-50	529.53
50-60	414.03
60-70	258.38
70-80	123.81
80-90	30.20
90-100	0.04
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	459	459	459	459	448	448	448	448	428	428	428	410	410	410	393	393	393	385
1	428	413	400	388	418	404	392	382	388	379	370	374	366	358	360	354	348	340
2	397	371	349	331	387	364	344	328	351	334	320	339	325	313	327	316	306	299
3	368	335	309	288	360	329	305	286	318	298	281	308	291	276	299	284	272	264
4	343	304	276	254	335	299	273	252	290	267	249	282	262	246	274	257	243	235
5	320	278	248	226	312	274	246	225	266	242	223	259	238	221	252	234	219	212
6	299	255	225	204	292	251	224	203	245	220	202	239	217	200	233	214	198	192
7	280	235	206	185	274	232	204	185	227	202	184	222	199	182	217	197	181	175
8	264	218	189	170	258	215	188	169	211	186	168	206	184	167	202	182	166	160
9	249	203	175	156	244	201	174	156	197	172	155	193	170	154	189	169	154	147
10	235	190	162	144	230	188	162	144	184	160	144	181	159	143	178	157	143	137

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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

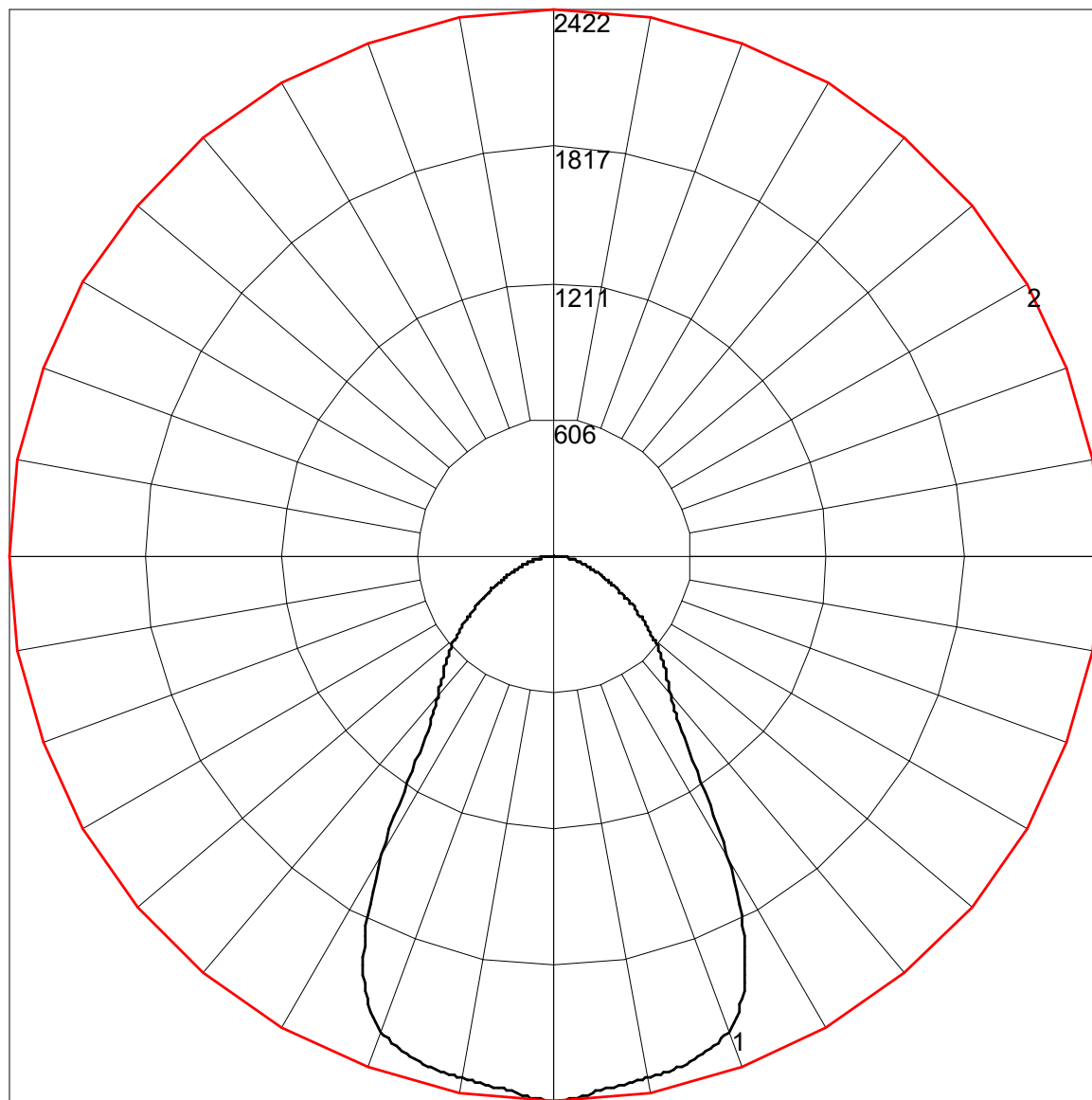
4H	2H	19.4	20.6	19.8	20.9	21.3	19.4	20.6	19.8	20.9	21.3
	3H	20.8	21.8	21.2	22.2	22.6	20.8	21.8	21.2	22.2	22.6
	4H	21.3	22.2	21.8	22.6	23.0	21.3	22.2	21.8	22.6	23.0
	6H	21.7	22.4	22.2	22.9	23.3	21.7	22.4	22.2	22.9	23.3
	8H	21.8	22.5	22.2	22.9	23.4	21.8	22.5	22.2	22.9	23.4
	12H	21.9	22.5	22.3	23.0	23.4	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 = 2422.162 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.)