



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P38-835-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-P38-835-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	3570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	46.6
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	48207	48207	48207
55	40202	40202	40202
65	28363	28363	28363
75	17374	17374	17374
85	13702	13702	13702

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CANDELA TABULATION

	<u>0</u>
0.0	2641.059
0.5	2638.588
1.0	2636.117
1.5	2633.647
2.0	2628.706
2.5	2621.294
3.0	2613.882
3.5	2604.000
4.0	2594.117
4.5	2586.706
5.0	2576.823
5.5	2566.941
6.0	2557.059
6.5	2547.176
7.0	2537.294
7.5	2527.411
8.0	2515.059
8.5	2505.176
9.0	2495.294
9.5	2482.941
10.0	2473.059
10.5	2460.953
11.0	2449.094
11.5	2437.235
12.0	2425.376
12.5	2413.764
13.0	2401.906
13.5	2389.553
14.0	2377.447
14.5	2365.588
15.0	2354.470
15.5	2343.106
16.0	2331.988
16.5	2321.117
17.0	2310.988
17.5	2300.859
18.0	2290.976
18.5	2281.588
19.0	2272.200
19.5	2262.564
20.0	2252.682
20.5	2242.059
21.0	2229.953
21.5	2216.117
22.0	2200.553
22.5	2183.259
23.0	2164.482
23.5	2143.235
24.0	2120.012
24.5	2094.564
25.0	2066.400
25.5	2036.012
26.0	2002.164
26.5	1965.106

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CANDELA TABULATION - (Cont.)

27.0	1925.576
27.5	1882.588
28.0	1836.882
28.5	1787.223
29.0	1734.847
29.5	1678.023
30.0	1617.741
30.5	1554.000
31.0	1487.788
31.5	1420.094
32.0	1351.165
32.5	1282.729
33.0	1215.035
33.5	1149.565
34.0	1086.812
34.5	1027.765
35.0	973.906
35.5	924.494
36.0	881.012
36.5	842.470
37.0	808.623
37.5	779.718
38.0	754.271
38.5	731.788
39.0	712.271
39.5	694.976
40.0	679.165
40.5	664.835
41.0	651.494
41.5	639.388
42.0	628.271
42.5	617.647
43.0	607.518
43.5	597.882
44.0	588.741
44.5	580.094
45.0	571.200
45.5	562.800
46.0	554.153
46.5	545.753
47.0	537.106
47.5	528.459
48.0	519.565
48.5	510.671
49.0	502.271
49.5	493.623
50.0	484.482
50.5	475.094
51.0	465.459
51.5	455.823
52.0	446.188
52.5	436.306
53.0	426.671
53.5	417.282
54.0	406.906
54.5	396.529

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CANDELA TABULATION - (Cont.)

55.0	386.400
55.5	376.023
56.0	365.894
56.5	355.765
57.0	345.635
57.5	335.506
58.0	325.871
58.5	315.988
59.0	306.353
59.5	296.965
60.0	287.576
60.5	278.188
61.0	269.047
61.5	260.153
62.0	251.259
62.5	242.612
63.0	233.965
63.5	225.318
64.0	217.165
64.5	208.765
65.0	200.859
65.5	192.706
66.0	185.047
66.5	177.388
67.0	169.976
67.5	162.565
68.0	155.400
68.5	148.235
69.0	141.565
69.5	134.647
70.0	128.224
70.5	121.800
71.0	115.624
71.5	109.694
72.0	103.765
72.5	98.329
73.0	93.141
73.5	88.447
74.0	83.753
74.5	79.553
75.0	75.353
75.5	71.647
76.0	67.941
76.5	64.729
77.0	61.765
77.5	58.800
78.0	55.835
78.5	52.871
79.0	50.153
79.5	47.435
80.0	44.718
80.5	42.000
81.0	39.282
81.5	36.812
82.0	34.094
82.5	31.624

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CANDELA TABULATION - (Cont.)

83.0	29.153
83.5	26.929
84.0	24.459
84.5	22.235
85.0	20.012
85.5	17.788
86.0	15.565
86.5	13.341
87.0	11.365
87.5	9.141
88.0	7.412
88.5	5.929
89.0	4.694
89.5	3.459
90.0	2.471
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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134.0	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

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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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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	907.52	N.A.	25.40
0-30	1834.66	N.A.	51.40
0-40	2476.11	N.A.	69.40
0-60	3263.29	N.A.	91.40
0-80	3547.46	N.A.	99.40
0-90	3570.25	N.A.	100.00
10-90	3327.64	N.A.	93.20
20-40	1568.59	N.A.	43.90
20-50	2011.16	N.A.	56.30
40-70	987.74	N.A.	27.70
60-80	284.18	N.A.	8.00
70-80	83.61	N.A.	2.30
80-90	22.79	N.A.	0.60
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3570.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	242.61
10-20	664.91
20-30	927.14
30-40	641.46
40-50	442.57
50-60	344.61
60-70	200.56
70-80	83.61
80-90	22.79
90-100	0.07
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	386
1	430	416	403	392	420	407	396	386	391	382	374	377	369	363	363	357	352	345
2	401	376	356	339	391	369	351	335	356	341	327	344	331	320	333	323	313	306
3	374	342	317	297	365	336	313	295	325	306	290	315	299	285	306	292	280	273
4	349	312	285	264	341	307	282	262	298	276	259	290	271	256	282	266	253	246
5	326	286	258	237	319	282	256	236	275	251	234	268	247	231	261	243	229	222
6	306	264	235	215	300	260	234	214	254	230	212	248	227	211	243	224	209	203
7	288	244	216	196	282	241	215	196	236	212	194	231	209	193	226	207	192	186
8	271	227	199	180	266	225	198	180	220	196	179	216	194	178	211	192	177	171
9	256	212	185	167	251	210	184	166	206	182	166	202	180	165	198	179	164	158
10	242	198	172	155	238	197	171	154	193	170	154	190	168	153	187	167	153	147

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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

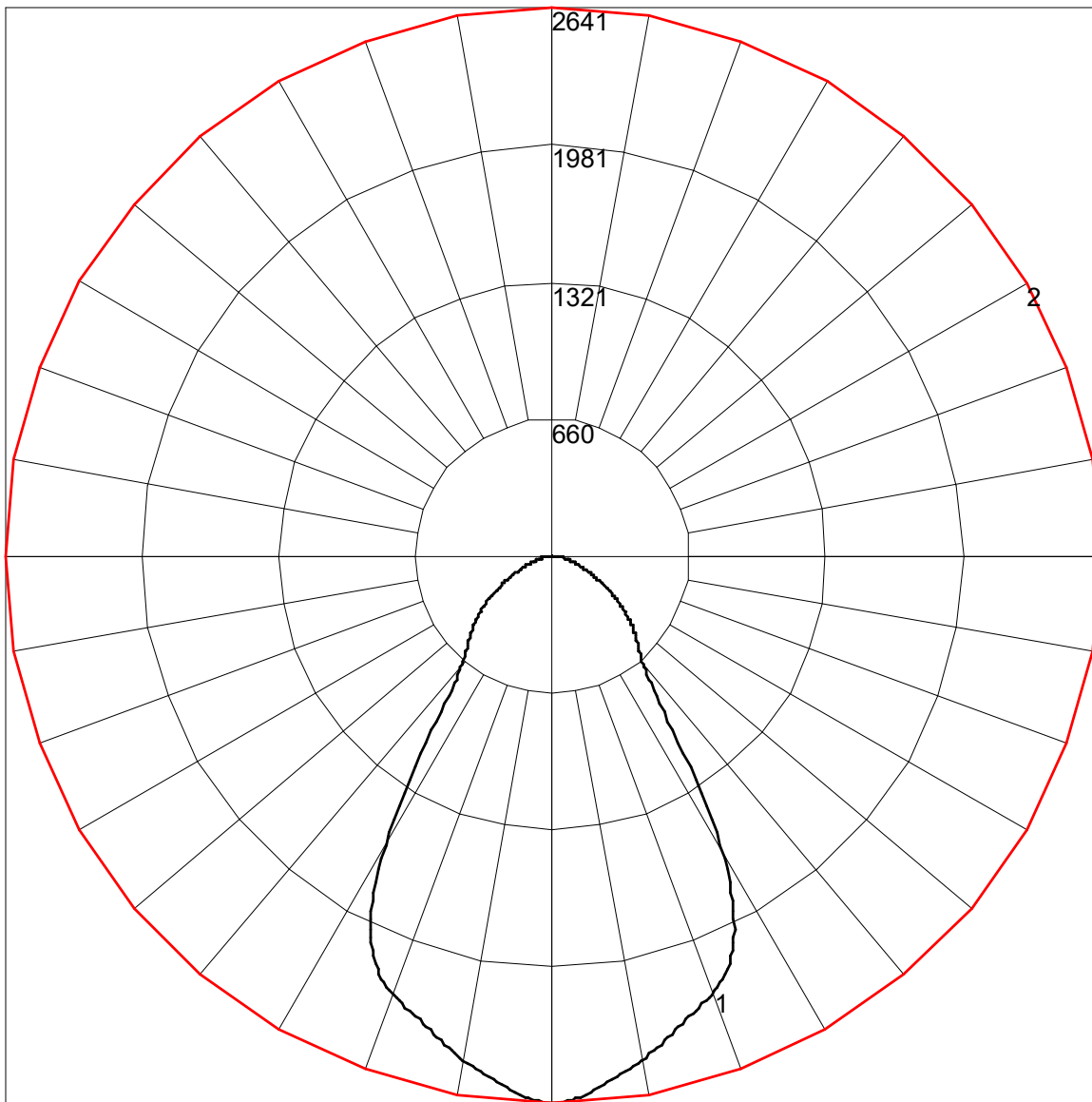
4H	2H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5	19.9
	3H	19.2	20.1	19.6	20.5	20.9	19.2	20.1	19.6	20.5	20.9
	4H	19.5	20.3	19.9	20.7	21.2	19.5	20.3	19.9	20.7	21.2
	6H	19.8	20.5	20.2	20.9	21.4	19.8	20.5	20.2	20.9	21.4
	8H	19.8	20.5	20.3	20.9	21.4	19.8	20.5	20.3	20.9	21.4
	12H	19.9	20.5	20.4	20.9	21.4	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 = 2641.059 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.)