



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P27-835-POE-RN-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.15

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P27-835-PoE-RN-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, clear plas

[MORE] tic optic, clear glass 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	3215
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.46
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	10527	10527	10527
55	6886	6886	6886
65	4685	4685	4685
75	3027	3027	3027
85	2430	2430	2430

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CANDELA TABULATION

	<u>0</u>
0.0	11939.143
0.5	11928.498
1.0	11894.786
1.5	11836.235
2.0	11754.618
2.5	11648.161
3.0	11520.413
3.5	11373.147
4.0	11208.139
4.5	11023.614
5.0	10823.120
5.5	10603.109
6.0	10365.355
6.5	10113.407
7.0	9847.265
7.5	9566.928
8.0	9274.172
8.5	8970.770
9.0	8654.947
9.5	8332.028
10.0	8000.237
10.5	7666.672
11.0	7329.559
11.5	6990.671
12.0	6653.557
12.5	6316.444
13.0	5986.427
13.5	5656.411
14.0	5337.040
14.5	5026.541
15.0	4723.139
15.5	4433.931
16.0	4158.917
16.5	3898.098
17.0	3646.149
17.5	3406.621
18.0	3179.513
18.5	2968.374
19.0	2767.880
19.5	2586.903
20.0	2409.475
20.5	2242.692
21.0	2088.330
21.5	1944.613
22.0	1807.993
22.5	1679.535
23.0	1560.304
23.5	1449.411
24.0	1345.970
24.5	1249.627
25.0	1160.026
25.5	1076.989
26.0	1000.340
26.5	929.191

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CANDELA TABULATION - (Cont.)

27.0	863.543
27.5	803.217
28.0	747.682
28.5	696.583
29.0	649.565
29.5	606.450
30.0	566.528
30.5	529.978
31.0	496.444
31.5	465.394
32.0	436.828
32.5	410.391
33.0	386.084
33.5	363.550
34.0	342.791
34.5	323.452
35.0	305.531
35.5	289.031
36.0	273.772
36.5	259.400
37.0	246.270
37.5	233.850
38.0	222.495
38.5	212.027
39.0	202.268
39.5	193.042
40.0	184.703
40.5	176.718
41.0	169.444
41.5	162.524
42.0	156.137
42.5	150.104
43.0	144.427
43.5	139.104
44.0	133.958
44.5	129.168
45.0	124.732
45.5	120.474
46.0	116.393
46.5	112.489
47.0	108.763
47.5	105.037
48.0	101.666
48.5	98.295
49.0	95.279
49.5	92.263
50.0	89.424
50.5	86.585
51.0	83.924
51.5	81.440
52.0	78.956
52.5	76.649
53.0	74.342
53.5	72.213
54.0	70.084
54.5	68.132

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CANDELA TABULATION - (Cont.)

55.0	66.181
55.5	64.229
56.0	62.455
56.5	60.680
57.0	58.729
57.5	56.954
58.0	55.358
58.5	53.583
59.0	51.986
59.5	50.212
60.0	48.615
60.5	46.841
61.0	45.244
61.5	43.647
62.0	42.050
62.5	40.631
63.0	39.034
63.5	37.615
64.0	36.018
64.5	34.598
65.0	33.179
65.5	31.760
66.0	30.518
66.5	29.276
67.0	28.034
67.5	26.792
68.0	25.550
68.5	24.485
69.0	23.421
69.5	22.356
70.0	21.291
70.5	20.404
71.0	19.340
71.5	18.453
72.0	17.565
72.5	16.678
73.0	15.969
73.5	15.259
74.0	14.549
74.5	13.839
75.0	13.130
75.5	12.420
76.0	11.888
76.5	11.355
77.0	10.823
77.5	10.291
78.0	9.759
78.5	9.404
79.0	8.871
79.5	8.339
80.0	7.984
80.5	7.452
81.0	6.920
81.5	6.565
82.0	6.033
82.5	5.678

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CANDELA TABULATION - (Cont.)

83.0	5.323
83.5	4.791
84.0	4.436
84.5	3.903
85.0	3.549
85.5	3.194
86.0	2.839
86.5	2.484
87.0	2.129
87.5	1.774
88.0	1.419
88.5	1.065
89.0	0.887
89.5	0.710
90.0	0.532
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
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103.5	0.000
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104.5	0.000
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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
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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
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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
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173.5	0.000
174.0	0.000
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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	2241.78	N.A.	69.70
0-30	2803.48	N.A.	87.20
0-40	3005.00	N.A.	93.50
0-60	3163.45	N.A.	98.40
0-80	3211.2	N.A.	99.90
0-90	3215.3	N.A.	100.00
10-90	2273.88	N.A.	70.70
20-40	763.22	N.A.	23.70
20-50	861.85	N.A.	26.80
40-70	191.82	N.A.	6.00
60-80	47.75	N.A.	1.50
70-80	14.38	N.A.	0.40
80-90	4.10	N.A.	0.10
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3215.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	941.43
10-20	1300.35
20-30	561.70
30-40	201.52
40-50	98.63
50-60	59.82
60-70	33.37
70-80	14.38
80-90	4.10
90-100	0.01
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	330	330	330	330	322	322	322	322	308	308	308	295	295	295	283	283	283	277
1	317	310	304	299	310	304	299	294	293	289	285	283	280	277	273	271	269	264
2	304	293	284	276	298	288	280	273	280	273	267	271	266	261	264	260	256	251
3	293	278	267	258	288	274	264	255	267	259	252	261	254	248	255	249	244	240
4	282	265	252	243	277	262	250	242	256	247	239	251	243	236	246	239	233	230
5	272	253	240	231	268	251	239	230	246	236	228	242	233	226	238	230	224	221
6	263	243	230	220	259	241	229	220	237	226	218	234	224	217	230	222	215	212
7	254	234	220	211	251	232	219	211	229	218	210	226	216	209	223	214	208	204
8	246	225	212	203	243	224	211	203	221	210	202	218	208	201	216	207	200	197
9	238	217	204	196	236	216	204	196	214	203	195	212	202	194	210	200	194	191
10	231	210	198	189	229	209	197	189	207	196	189	205	195	188	203	194	188	185

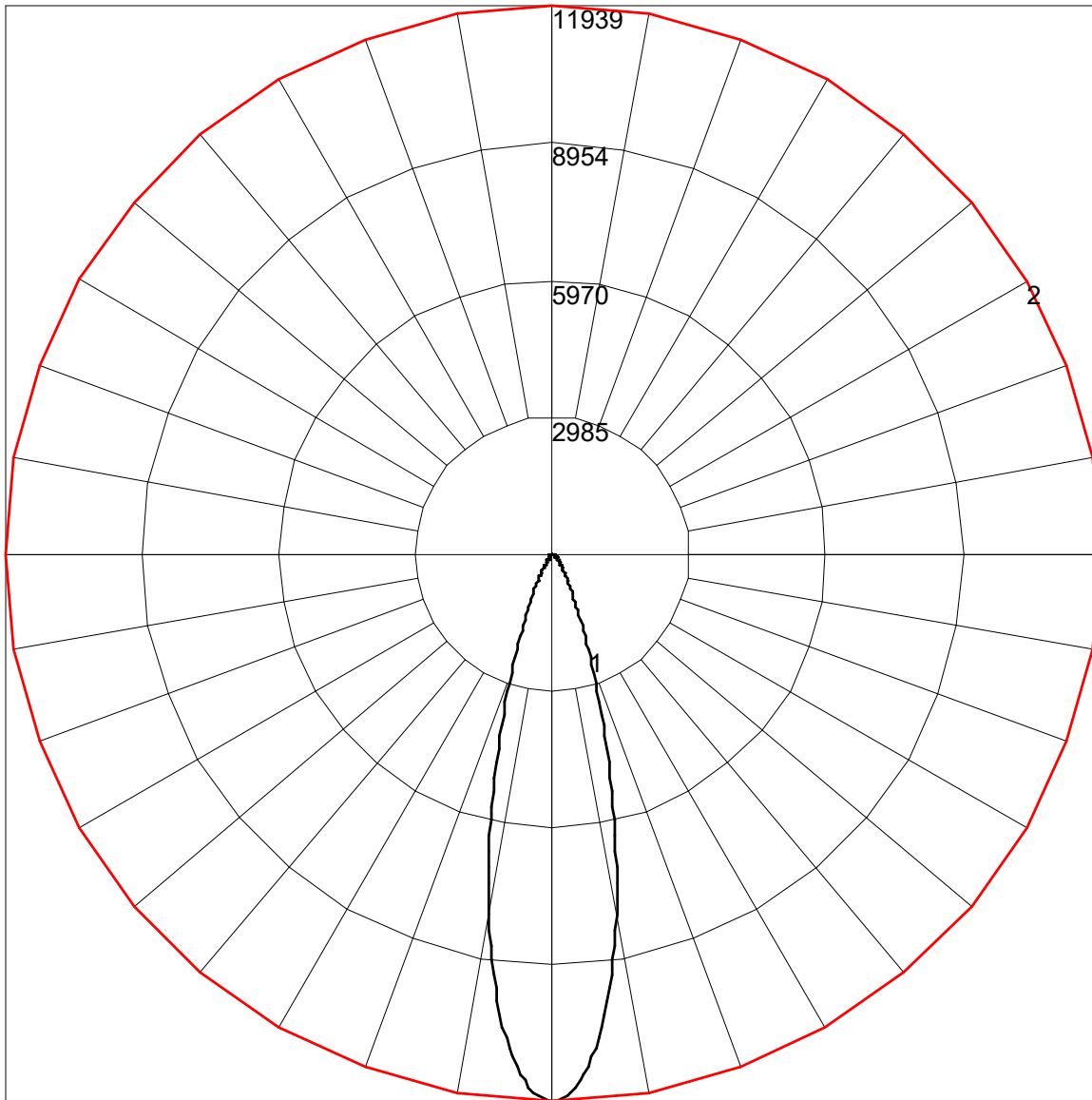
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	7.3	8.2	7.6	8.5	8.9	7.3	8.2	7.6	8.5	8.9
	3H	8.1	9.0	8.5	9.3	9.7	8.1	9.0	8.5	9.3	9.7
	4H	8.4	9.2	8.8	9.5	9.9	8.4	9.2	8.8	9.5	9.9
	6H	8.5	9.3	8.9	9.6	10.0	8.5	9.3	8.9	9.6	10.0
	8H	8.6	9.3	9.0	9.7	10.1	8.6	9.3	9.0	9.7	10.1
	12H	8.6	9.2	9.0	9.6	10.1	8.6	9.2	9.0	9.6	10.1
4H	2H	7.5	8.3	7.9	8.6	9.0	7.5	8.3	7.9	8.6	9.0
	3H	8.5	9.2	8.9	9.6	10.0	8.5	9.2	8.9	9.6	10.0
	4H	8.8	9.4	9.3	9.8	10.3	8.8	9.4	9.3	9.8	10.3
	6H	9.1	9.6	9.6	10.0	10.5	9.1	9.6	9.6	10.0	10.5
	8H	9.2	9.6	9.6	10.1	10.6	9.2	9.6	9.6	10.1	10.6
	12H	9.2	9.6	9.7	10.1	10.6	9.2	9.6	9.7	10.1	10.6
8H	4H	8.9	9.3	9.4	9.8	10.3	8.9	9.3	9.4	9.8	10.3
	6H	9.2	9.6	9.7	10.1	10.6	9.2	9.6	9.7	10.1	10.6
	8H	9.4	9.7	9.9	10.2	10.7	9.4	9.7	9.9	10.2	10.7
	12H	9.5	9.8	10.0	10.3	10.8	9.5	9.8	10.0	10.3	10.8
12H	4H	8.8	9.2	9.3	9.7	10.2	8.8	9.2	9.3	9.7	10.2
	6H	9.2	9.6	9.8	10.0	10.6	9.2	9.6	9.8	10.0	10.6
	8H	9.4	9.7	9.9	10.2	10.8	9.4	9.7	9.9	10.2	10.8

Maximum UGR = 10.8

POLAR GRAPH



Maximum Candela = 11939.143 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.)