



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L56-835-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 9 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-L56-835-DIM-UNV-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	5624
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	79.8
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	93496	93496	93496
55	77839	77839	77839
65	59135	59135	59135
75	42884	42884	42884
85	27947	27947	27947

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CANDELA TABULATION

	<u>0</u>
0.0	3577.661
0.5	3576.941
1.0	3574.059
1.5	3569.737
2.0	3564.334
2.5	3557.131
3.0	3549.927
3.5	3541.643
4.0	3534.079
4.5	3526.516
5.0	3521.113
5.5	3516.070
6.0	3511.388
6.5	3506.706
7.0	3501.663
7.5	3496.981
8.0	3492.299
8.5	3487.976
9.0	3483.654
9.5	3480.052
10.0	3476.451
10.5	3473.569
11.0	3471.048
11.5	3469.607
12.0	3467.086
12.5	3464.565
13.0	3460.963
13.5	3456.281
14.0	3450.518
14.5	3444.035
15.0	3437.191
15.5	3428.547
16.0	3419.182
16.5	3409.817
17.0	3400.453
17.5	3390.728
18.0	3380.283
18.5	3368.397
19.0	3355.070
19.5	3340.303
20.0	3323.374
20.5	3305.005
21.0	3282.314
21.5	3255.301
22.0	3224.685
22.5	3190.108
23.0	3152.289
23.5	3111.229
24.0	3065.846
24.5	3016.862
25.0	2963.916
25.5	2908.808
26.0	2850.099
26.5	2788.868

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CANDELA TABULATION - (Cont.)

27.0	2723.676
27.5	2656.683
28.0	2586.087
28.5	2511.530
29.0	2434.092
29.5	2352.691
30.0	2269.130
30.5	2183.047
31.0	2096.964
31.5	2010.161
32.0	1925.879
32.5	1845.199
33.0	1767.760
33.5	1695.364
34.0	1628.731
34.5	1568.221
35.0	1514.194
35.5	1464.489
36.0	1420.907
36.5	1380.927
37.0	1345.270
37.5	1313.214
38.0	1284.039
38.5	1257.386
39.0	1232.173
39.5	1209.482
40.0	1187.511
40.5	1166.981
41.0	1147.891
41.5	1129.162
42.0	1111.153
42.5	1094.585
43.0	1077.656
43.5	1061.088
44.0	1044.880
44.5	1029.032
45.0	1012.824
45.5	997.336
46.0	981.489
46.5	965.641
47.0	949.433
47.5	933.585
48.0	917.377
48.5	901.169
49.0	884.961
49.5	868.032
50.0	851.824
50.5	835.256
51.0	818.688
51.5	801.759
52.0	784.831
52.5	767.902
53.0	750.974
53.5	734.045
54.0	717.837
54.5	701.269

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CANDELA TABULATION - (Cont.)

55.0	683.981
55.5	667.052
56.0	650.124
56.5	634.276
57.0	618.428
57.5	601.860
58.0	585.291
58.5	569.083
59.0	553.235
59.5	537.388
60.0	522.260
60.5	507.132
61.0	492.365
61.5	477.598
62.0	463.551
62.5	449.504
63.0	435.817
63.5	422.130
64.0	408.804
64.5	395.837
65.0	382.871
65.5	370.264
66.0	357.694
66.5	345.340
67.0	333.130
67.5	321.172
68.0	309.430
68.5	297.652
69.0	286.234
69.5	274.925
70.0	263.939
70.5	253.314
71.0	242.905
71.5	232.820
72.0	223.095
72.5	213.658
73.0	204.474
73.5	195.469
74.0	186.825
74.5	178.361
75.0	170.041
75.5	162.009
76.0	154.121
76.5	146.377
77.0	138.849
77.5	131.465
78.0	124.298
78.5	117.274
79.0	110.395
79.5	103.768
80.0	97.176
80.5	90.801
81.0	84.498
81.5	78.231
82.0	72.108
82.5	66.021

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CANDELA TABULATION - (Cont.)

83.0	60.078
83.5	54.243
84.0	48.480
84.5	42.825
85.0	37.315
85.5	31.984
86.0	26.833
86.5	21.863
87.0	17.036
87.5	13.002
88.0	9.941
88.5	7.276
89.0	5.043
89.5	3.170
90.0	2.017
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
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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
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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	1303.23	N.A.	23.20
0-30	2634.35	N.A.	46.80
0-40	3621.39	N.A.	64.40
0-60	5015.07	N.A.	89.20
0-80	5579.58	N.A.	99.20
0-90	5624.19	N.A.	100.00
10-90	5289.4	N.A.	94.00
20-40	2318.16	N.A.	41.20
20-50	3100.3	N.A.	55.10
40-70	1775.33	N.A.	31.60
60-80	564.51	N.A.	10.00
70-80	182.87	N.A.	3.30
80-90	44.61	N.A.	0.80
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5624.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	334.79
10-20	968.43
20-30	1331.12
30-40	987.04
40-50	782.14
50-60	611.55
60-70	381.64
70-80	182.87
80-90	44.61
90-100	0.06
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35

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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	25.0	26.4	25.4	26.7	27.0	25.0	26.4	25.4	26.7	27.0
	3H	26.2	27.5	26.6	27.8	28.1	26.2	27.5	26.6	27.8	28.1
	4H	26.6	27.8	27.0	28.1	28.5	26.6	27.8	27.0	28.1	28.5
	6H	26.9	27.9	27.3	28.3	28.7	26.9	27.9	27.3	28.3	28.7
	8H	26.9	28.0	27.4	28.4	28.8	26.9	28.0	27.4	28.4	28.8
	12H	27.0	28.0	27.4	28.3	28.8	27.0	28.0	27.4	28.3	28.8

UGR Viewed Endwise

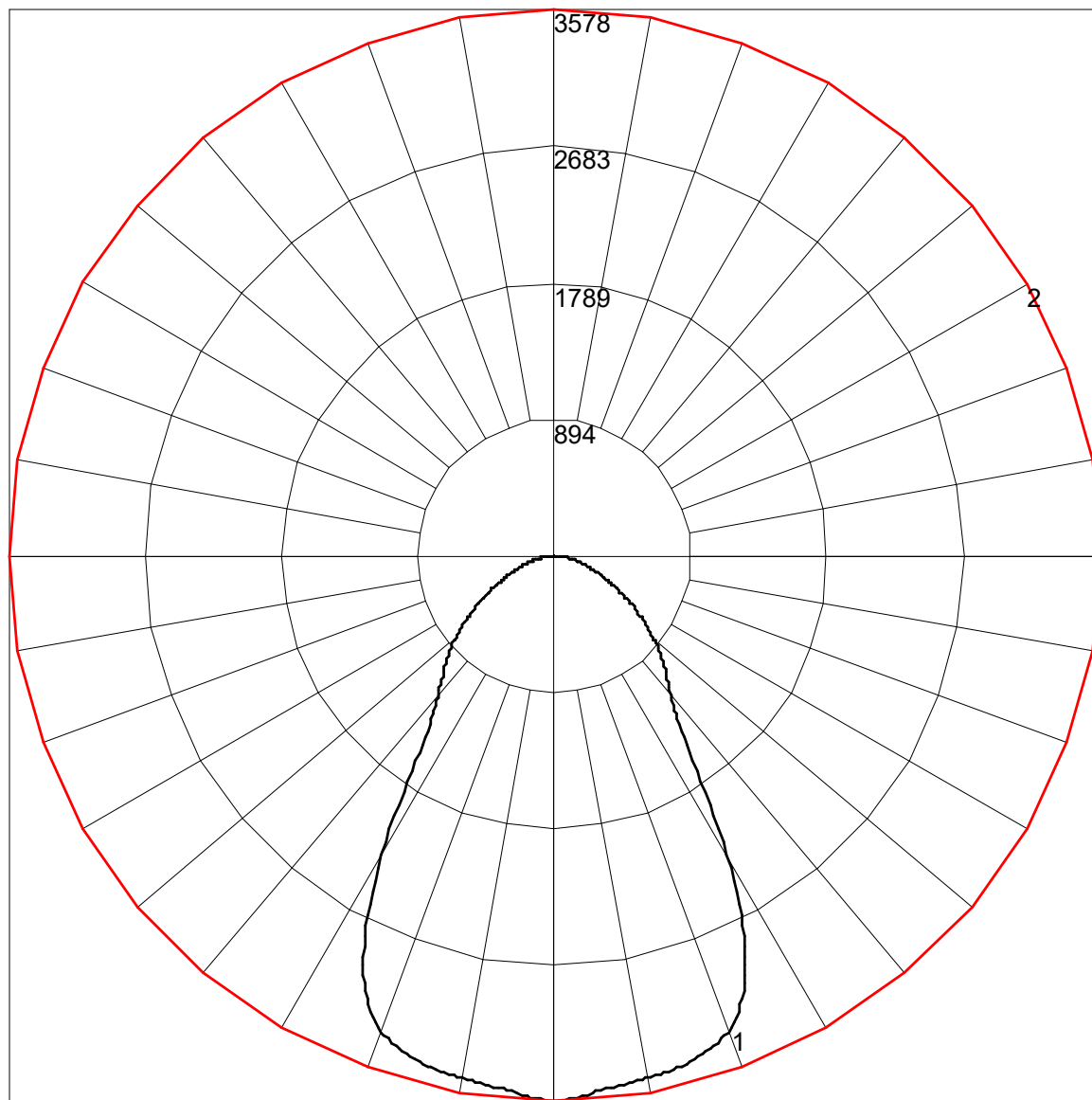
4H	2H	25.4	26.6	25.8	26.9	27.3	25.4	26.6	25.8	26.9	27.3
	3H	26.8	27.8	27.2	28.2	28.6	26.8	27.8	27.2	28.2	28.6
	4H	27.3	28.2	27.7	28.6	29.0	27.3	28.2	27.7	28.6	29.0
	6H	27.7	28.4	28.2	28.9	29.3	27.7	28.4	28.2	28.9	29.3
	8H	27.8	28.5	28.2	28.9	29.4	27.8	28.5	28.2	28.9	29.4
	12H	27.9	28.5	28.3	29.0	29.4	27.9	28.5	28.3	29.0	29.4

8H	4H	27.5	28.2	27.9	28.6	29.1	27.5	28.2	27.9	28.6	29.1
	6H	27.9	28.5	28.4	29.0	29.5	27.9	28.5	28.4	29.0	29.5
	8H	28.1	28.6	28.6	29.1	29.6	28.1	28.6	28.6	29.1	29.6
	12H	28.2	28.7	28.7	29.2	29.7	28.2	28.7	28.7	29.2	29.7

12H	4H	27.5	28.1	27.9	28.6	29.0	27.5	28.1	27.9	28.6	29.0
	6H	28.0	28.5	28.5	28.9	29.5	28.0	28.5	28.5	28.9	29.5
	8H	28.2	28.6	28.7	29.1	29.7	28.2	28.6	28.7	29.1	29.7

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 3577.661 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.)