



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.12

[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-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	5205
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	79.8
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	70284	70284	70284
55	58614	58614	58614
65	41352	41352	41352
75	25331	25331	25331
85	19978	19978	19978

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CANDELA TABULATION

	<u>0</u>
0.0	3850.619
0.5	3847.017
1.0	3843.415
1.5	3839.813
2.0	3832.609
2.5	3821.803
3.0	3810.996
3.5	3796.588
4.0	3782.180
4.5	3771.374
5.0	3756.965
5.5	3742.557
6.0	3728.149
6.5	3713.740
7.0	3699.332
7.5	3684.924
8.0	3666.913
8.5	3652.505
9.0	3638.097
9.5	3620.086
10.0	3605.678
10.5	3588.028
11.0	3570.738
11.5	3553.448
12.0	3536.158
12.5	3519.228
13.0	3501.938
13.5	3483.928
14.0	3466.278
14.5	3448.988
15.0	3432.778
15.5	3416.209
16.0	3400.000
16.5	3384.150
17.0	3369.382
17.5	3354.613
18.0	3340.205
18.5	3326.517
19.0	3312.829
19.5	3298.781
20.0	3284.373
20.5	3268.884
21.0	3251.234
21.5	3231.062
22.0	3208.369
22.5	3183.155
23.0	3155.779
23.5	3124.801
24.0	3090.941
24.5	3053.840
25.0	3012.776
25.5	2968.471
26.0	2919.122
26.5	2865.091

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CANDELA TABULATION - (Cont.)

27.0	2807.458
27.5	2744.782
28.0	2678.144
28.5	2605.742
29.0	2529.378
29.5	2446.530
30.0	2358.639
30.5	2265.706
31.0	2169.170
31.5	2070.473
32.0	1969.975
32.5	1870.198
33.0	1771.501
33.5	1676.046
34.0	1584.553
34.5	1498.464
35.0	1419.938
35.5	1347.897
36.0	1284.500
36.5	1228.308
37.0	1178.959
37.5	1136.815
38.0	1099.714
38.5	1066.935
39.0	1038.479
39.5	1013.264
40.0	990.211
40.5	969.319
41.0	949.867
41.5	932.217
42.0	916.008
42.5	900.519
43.0	885.751
43.5	871.702
44.0	858.375
44.5	845.767
45.0	832.800
45.5	820.553
46.0	807.946
46.5	795.699
47.0	783.091
47.5	770.484
48.0	757.517
48.5	744.549
49.0	732.302
49.5	719.695
50.0	706.367
50.5	692.679
51.0	678.631
51.5	664.583
52.0	650.535
52.5	636.127
53.0	622.079
53.5	608.391
54.0	593.262
54.5	578.133

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CANDELA TABULATION - (Cont.)

55.0	563.365
55.5	548.236
56.0	533.467
56.5	518.699
57.0	503.930
57.5	489.162
58.0	475.114
58.5	460.706
59.0	446.657
59.5	432.970
60.0	419.282
60.5	405.594
61.0	392.266
61.5	379.299
62.0	366.331
62.5	353.724
63.0	341.117
63.5	328.509
64.0	316.622
64.5	304.375
65.0	292.849
65.5	280.962
66.0	269.795
66.5	258.629
67.0	247.823
67.5	237.017
68.0	226.571
68.5	216.125
69.0	206.399
69.5	196.313
70.0	186.948
70.5	177.582
71.0	168.577
71.5	159.932
72.0	151.287
72.5	143.363
73.0	135.798
73.5	128.954
74.0	122.110
74.5	115.987
75.0	109.863
75.5	104.460
76.0	99.057
76.5	94.374
77.0	90.052
77.5	85.729
78.0	81.407
78.5	77.084
79.0	73.122
79.5	69.160
80.0	65.198
80.5	61.235
81.0	57.273
81.5	53.671
82.0	49.709
82.5	46.107

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CANDELA TABULATION - (Cont.)

83.0	42.504
83.5	39.263
84.0	35.661
84.5	32.419
85.0	29.177
85.5	25.935
86.0	22.693
86.5	19.451
87.0	16.570
87.5	13.328
88.0	10.806
88.5	8.645
89.0	6.844
89.5	5.043
90.0	3.602
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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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
144.5	0.000
145.0	0.000
145.5	0.000
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154.5	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	1323.15	N.A.	25.40
0-30	2674.9	N.A.	51.40
0-40	3610.13	N.A.	69.40
0-60	4757.82	N.A.	91.40
0-80	5172.14	N.A.	99.40
0-90	5205.37	N.A.	100.00
10-90	4851.65	N.A.	93.20
20-40	2286.98	N.A.	43.90
20-50	2932.24	N.A.	56.30
40-70	1440.1	N.A.	27.70
60-80	414.32	N.A.	8.00
70-80	121.90	N.A.	2.30
80-90	33.23	N.A.	0.60
90-110	0.10	N.A.	0.00
90-120	0.10	N.A.	0.00
90-130	0.10	N.A.	0.00
90-150	0.10	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5205.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	353.72
10-20	969.43
20-30	1351.75
30-40	935.23
40-50	645.25
50-60	502.43
60-70	292.42
70-80	121.90
80-90	33.23
90-100	0.10
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	110	110	110	110	107	107	107	107	102	102	102	98	98	98	94	94	94	92
1	103	99	96	94	100	97	95	92	93	91	89	90	88	86	87	85	84	82
2	96	90	85	81	93	88	84	80	85	81	78	82	79	76	79	77	75	73
3	89	82	76	71	87	80	75	70	78	73	69	75	71	68	73	70	67	65
4	83	74	68	63	81	73	67	63	71	66	62	69	65	61	67	63	60	59
5	78	68	62	57	76	67	61	56	66	60	56	64	59	55	62	58	55	53
6	73	63	56	51	72	62	56	51	61	55	51	59	54	50	58	53	50	48
7	69	58	52	47	67	58	51	47	56	51	46	55	50	46	54	49	46	44
8	65	54	48	43	63	54	47	43	52	47	43	51	46	42	50	46	42	41
9	61	51	44	40	60	50	44	40	49	43	40	48	43	39	47	43	39	38
10	58	47	41	37	57	47	41	37	46	41	37	45	40	37	45	40	36	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	23.8	25.2	24.2	25.5	25.8	23.8	25.2	24.2	25.5	25.8
	3H	24.8	26.0	25.2	26.3	26.7	24.8	26.0	25.2	26.3	26.7
	4H	25.1	26.2	25.5	26.5	26.9	25.1	26.2	25.5	26.5	26.9
	6H	25.2	26.3	25.7	26.6	27.0	25.2	26.3	25.7	26.6	27.0
	8H	25.3	26.3	25.7	26.7	27.1	25.3	26.3	25.7	26.7	27.1
	12H	25.3	26.2	25.8	26.6	27.1	25.3	26.2	25.8	26.6	27.1

UGR Viewed Endwise

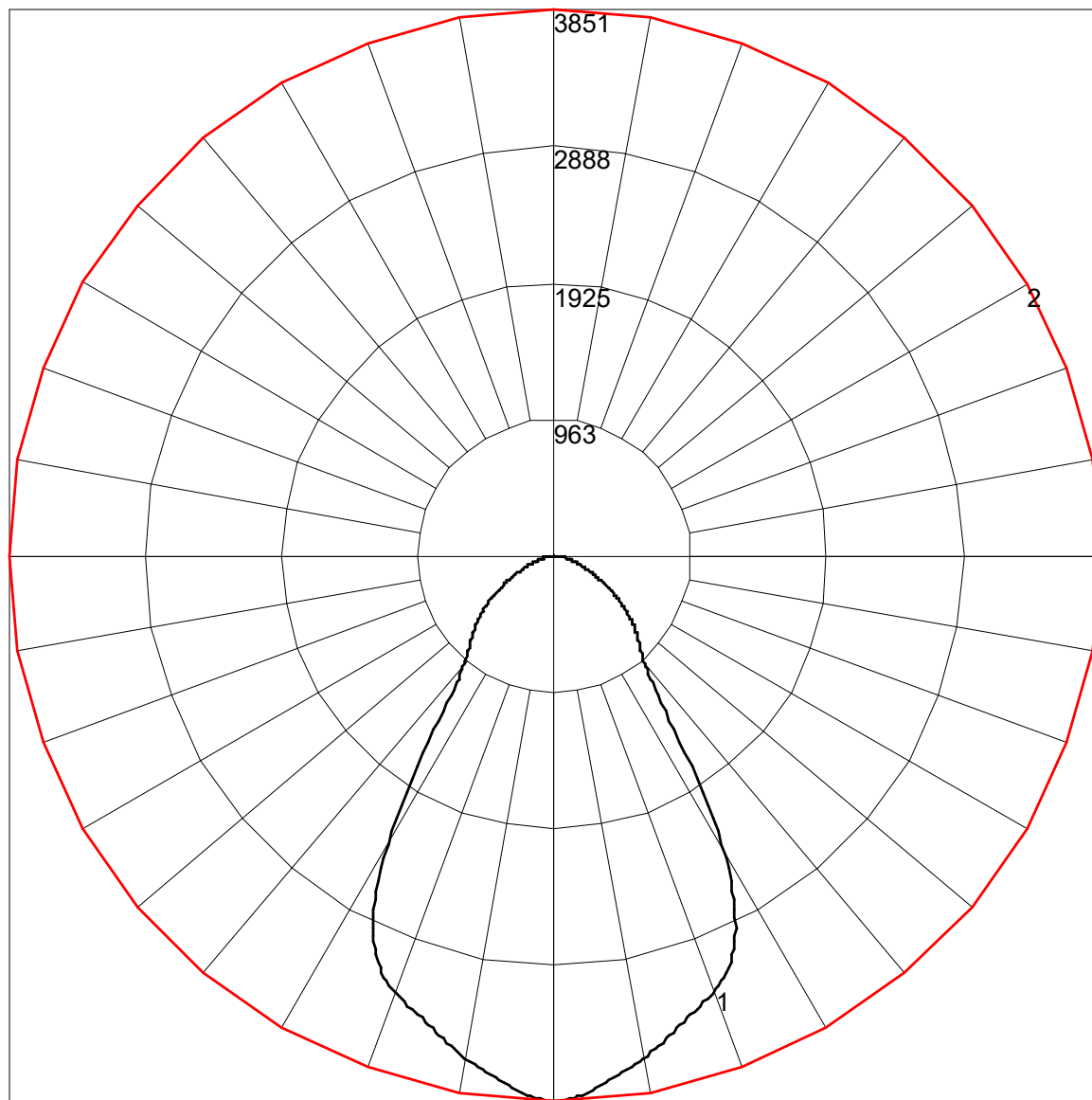
4H	2H	24.2	25.3	24.6	25.6	26.0	24.2	25.3	24.6	25.6	26.0
	3H	25.3	26.2	25.7	26.6	27.0	25.3	26.2	25.7	26.6	27.0
	4H	25.7	26.5	26.1	26.9	27.3	25.7	26.5	26.1	26.9	27.3
	6H	25.9	26.6	26.4	27.1	27.5	25.9	26.6	26.4	27.1	27.5
	8H	26.0	26.6	26.5	27.1	27.6	26.0	26.6	26.5	27.1	27.6
	12H	26.1	26.6	26.5	27.1	27.6	26.1	26.6	26.5	27.1	27.6

8H	4H	25.7	26.4	26.2	26.8	27.3	25.7	26.4	26.2	26.8	27.3
	6H	26.1	26.6	26.6	27.1	27.6	26.1	26.6	26.6	27.1	27.6
	8H	26.2	26.7	26.7	27.2	27.7	26.2	26.7	26.7	27.2	27.7
	12H	26.3	26.7	26.8	27.2	27.8	26.3	26.7	26.8	27.2	27.8

12H	4H	25.7	26.3	26.2	26.8	27.3	25.7	26.3	26.2	26.8	27.3
	6H	26.1	26.6	26.6	27.0	27.6	26.1	26.6	26.6	27.0	27.6
	8H	26.2	26.7	26.8	27.2	27.7	26.2	26.7	26.8	27.2	27.7

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 3850.619 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.)