



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L8-835-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-L8-835-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	716
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	9.8
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	9668	9668	9668
55	8063	8063	8063
65	5688	5688	5688
75	3485	3485	3485
85	2748	2748	2748

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CANDELA TABULATION

	<u>0</u>
0.0	529.691
0.5	529.196
1.0	528.700
1.5	528.205
2.0	527.214
2.5	525.727
3.0	524.241
3.5	522.259
4.0	520.277
4.5	518.790
5.0	516.808
5.5	514.826
6.0	512.844
6.5	510.862
7.0	508.880
7.5	506.898
8.0	504.421
8.5	502.439
9.0	500.457
9.5	497.979
10.0	495.997
10.5	493.569
11.0	491.191
11.5	488.812
12.0	486.434
12.5	484.105
13.0	481.727
13.5	479.249
14.0	476.821
14.5	474.443
15.0	472.213
15.5	469.934
16.0	467.704
16.5	465.524
17.0	463.492
17.5	461.461
18.0	459.479
18.5	457.596
19.0	455.713
19.5	453.780
20.0	451.798
20.5	449.668
21.0	447.240
21.5	444.465
22.0	441.343
22.5	437.875
23.0	434.109
23.5	429.848
24.0	425.190
24.5	420.086
25.0	414.438
25.5	408.343
26.0	401.555
26.5	394.122

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CANDELA TABULATION - (Cont.)

27.0	386.194
27.5	377.572
28.0	368.406
28.5	358.446
29.0	347.941
29.5	336.545
30.0	324.455
30.5	311.671
31.0	298.391
31.5	284.814
32.0	270.990
32.5	257.264
33.0	243.688
33.5	230.557
34.0	217.971
34.5	206.129
35.0	195.327
35.5	185.417
36.0	176.696
36.5	168.966
37.0	162.178
37.5	156.380
38.0	151.277
38.5	146.768
39.0	142.853
39.5	139.385
40.0	136.213
40.5	133.340
41.0	130.664
41.5	128.236
42.0	126.006
42.5	123.875
43.0	121.844
43.5	119.911
44.0	118.078
44.5	116.344
45.0	114.560
45.5	112.875
46.0	111.141
46.5	109.456
47.0	107.722
47.5	105.988
48.0	104.204
48.5	102.420
49.0	100.735
49.5	99.001
50.0	97.168
50.5	95.285
51.0	93.353
51.5	91.420
52.0	89.488
52.5	87.506
53.0	85.573
53.5	83.690
54.0	81.609
54.5	79.528

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CANDELA TABULATION - (Cont.)

55.0	77.496
55.5	75.415
56.0	73.384
56.5	71.352
57.0	69.321
57.5	67.289
58.0	65.357
58.5	63.375
59.0	61.442
59.5	59.559
60.0	57.676
60.5	55.793
61.0	53.960
61.5	52.176
62.0	50.393
62.5	48.658
63.0	46.924
63.5	45.190
64.0	43.555
64.5	41.870
65.0	40.284
65.5	38.649
66.0	37.113
66.5	35.577
67.0	34.091
67.5	32.604
68.0	31.167
68.5	29.730
69.0	28.392
69.5	27.005
70.0	25.717
70.5	24.428
71.0	23.189
71.5	22.000
72.0	20.811
72.5	19.721
73.0	18.680
73.5	17.739
74.0	16.798
74.5	15.955
75.0	15.113
75.5	14.370
76.0	13.626
76.5	12.982
77.0	12.388
77.5	11.793
78.0	11.198
78.5	10.604
79.0	10.059
79.5	9.514
80.0	8.969
80.5	8.424
81.0	7.878
81.5	7.383
82.0	6.838
82.5	6.342

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CANDELA TABULATION - (Cont.)

83.0	5.847
83.5	5.401
84.0	4.905
84.5	4.460
85.0	4.014
85.5	3.568
86.0	3.122
86.5	2.676
87.0	2.279
87.5	1.833
88.0	1.487
88.5	1.189
89.0	0.941
89.5	0.694
90.0	0.496
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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117.5	0.000
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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
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154.0	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	182.01	N.A.	25.40
0-30	367.96	N.A.	51.40
0-40	496.61	N.A.	69.40
0-60	654.49	N.A.	91.40
0-80	711.48	N.A.	99.40
0-90	716.05	N.A.	100.00
10-90	667.39	N.A.	93.20
20-40	314.60	N.A.	43.90
20-50	403.36	N.A.	56.30
40-70	198.10	N.A.	27.70
60-80	56.99	N.A.	8.00
70-80	16.77	N.A.	2.30
80-90	4.57	N.A.	0.60
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	716.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.66
10-20	133.35
20-30	185.95
30-40	128.65
40-50	88.76
50-60	69.11
60-70	40.23
70-80	16.77
80-90	4.57
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

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UGR TABLE - CORRECTED

Reflectances

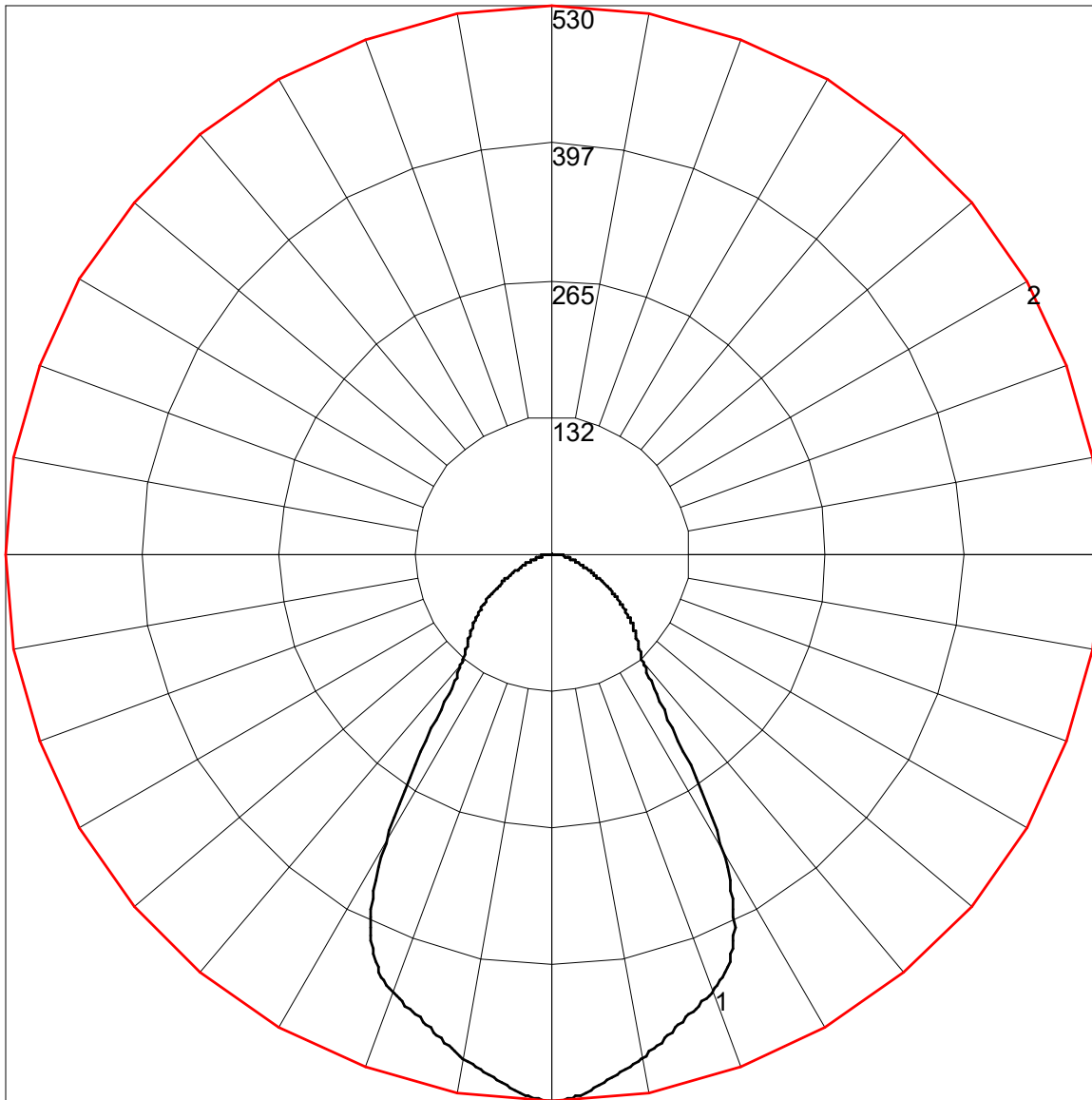
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.8	18.1	17.2	18.4	18.7	UGR Viewed Endwise	16.8	18.1	17.2	18.4	18.7
	3H	17.8	18.9	18.2	19.3	19.6		17.8	18.9	18.2	19.3	19.6
	4H	18.0	19.1	18.4	19.5	19.8		18.0	19.1	18.4	19.5	19.8
	6H	18.2	19.2	18.6	19.6	20.0		18.2	19.2	18.6	19.6	20.0
	8H	18.2	19.2	18.7	19.6	20.0		18.2	19.2	18.7	19.6	20.0
	12H	18.3	19.2	18.7	19.6	20.0		18.3	19.2	18.7	19.6	20.0
4H	2H	17.1	18.2	17.5	18.6	19.0		17.1	18.2	17.5	18.6	19.0
	3H	18.3	19.2	18.7	19.6	20.0		18.3	19.2	18.7	19.6	20.0
	4H	18.6	19.4	19.0	19.8	20.3		18.6	19.4	19.0	19.8	20.3
	6H	18.9	19.5	19.3	20.0	20.5		18.9	19.5	19.3	20.0	20.5
	8H	18.9	19.6	19.4	20.0	20.5		18.9	19.6	19.4	20.0	20.5
	12H	19.0	19.6	19.5	20.0	20.5		19.0	19.6	19.5	20.0	20.5
8H	4H	18.7	19.3	19.1	19.8	20.2		18.7	19.3	19.1	19.8	20.2
	6H	19.0	19.5	19.5	20.0	20.5		19.0	19.5	19.5	20.0	20.5
	8H	19.2	19.6	19.7	20.1	20.6		19.2	19.6	19.7	20.1	20.6
	12H	19.3	19.7	19.8	20.2	20.7		19.3	19.7	19.8	20.2	20.7
12H	4H	18.7	19.2	19.2	19.7	20.2		18.7	19.2	19.2	19.7	20.2
	6H	19.0	19.5	19.6	20.0	20.5		19.0	19.5	19.6	20.0	20.5
	8H	19.2	19.6	19.7	20.1	20.7		19.2	19.6	19.7	20.1	20.7

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 529.691 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.)