



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L53-835-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] 09/16/2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-L53-835-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	4945
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	74.4
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	66773	66773	66773
55	55686	55686	55686
65	39286	39286	39286
75	24066	24066	24066
85	18979	18979	18979

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CANDELA TABULATION

	<u>0</u>
0.0	3658.273
0.5	3654.851
1.0	3651.429
1.5	3648.006
2.0	3641.162
2.5	3630.896
3.0	3620.629
3.5	3606.941
4.0	3593.252
4.5	3582.986
5.0	3569.297
5.5	3555.609
6.0	3541.920
6.5	3528.231
7.0	3514.543
7.5	3500.854
8.0	3483.743
8.5	3470.055
9.0	3456.366
9.5	3439.256
10.0	3425.567
10.5	3408.799
11.0	3392.372
11.5	3375.946
12.0	3359.520
12.5	3343.436
13.0	3327.009
13.5	3309.899
14.0	3293.130
14.5	3276.704
15.0	3261.304
15.5	3245.562
16.0	3230.163
16.5	3215.105
17.0	3201.074
17.5	3187.044
18.0	3173.355
18.5	3160.351
19.0	3147.347
19.5	3134.000
20.0	3120.312
20.5	3105.596
21.0	3088.828
21.5	3069.664
22.0	3048.104
22.5	3024.149
23.0	2998.141
23.5	2968.711
24.0	2936.543
24.5	2901.294
25.0	2862.282
25.5	2820.190
26.0	2773.306
26.5	2721.974

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CANDELA TABULATION - (Cont.)

27.0	2667.220
27.5	2607.674
28.0	2544.365
28.5	2475.580
29.0	2403.030
29.5	2324.321
30.0	2240.820
30.5	2152.529
31.0	2060.816
31.5	1967.049
32.0	1871.571
32.5	1776.778
33.0	1683.011
33.5	1592.324
34.0	1505.402
34.5	1423.612
35.0	1349.010
35.5	1280.567
36.0	1220.337
36.5	1166.951
37.0	1120.068
37.5	1080.029
38.0	1044.781
38.5	1013.639
39.0	986.604
39.5	962.649
40.0	940.748
40.5	920.899
41.0	902.420
41.5	885.651
42.0	870.251
42.5	855.536
43.0	841.505
43.5	828.159
44.0	815.497
44.5	803.520
45.0	791.200
45.5	779.565
46.0	767.587
46.5	755.952
47.0	743.974
47.5	731.997
48.0	719.677
48.5	707.357
49.0	695.722
49.5	683.745
50.0	671.083
50.5	658.078
51.0	644.732
51.5	631.386
52.0	618.039
52.5	604.351
53.0	591.004
53.5	578.000
54.0	563.627
54.5	549.254

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CANDELA TABULATION - (Cont.)

55.0	535.223
55.5	520.850
56.0	506.820
56.5	492.789
57.0	478.758
57.5	464.727
58.0	451.381
58.5	437.692
59.0	424.346
59.5	411.342
60.0	398.338
60.5	385.334
61.0	372.672
61.5	360.352
62.0	348.032
62.5	336.055
63.0	324.077
63.5	312.100
64.0	300.807
64.5	289.171
65.0	278.220
65.5	266.927
66.0	256.319
66.5	245.710
67.0	235.444
67.5	225.177
68.0	215.253
68.5	205.329
69.0	196.089
69.5	186.507
70.0	177.609
70.5	168.712
71.0	160.156
71.5	151.943
72.0	143.730
72.5	136.201
73.0	129.015
73.5	122.513
74.0	116.011
74.5	110.193
75.0	104.375
75.5	99.242
76.0	94.109
76.5	89.660
77.0	85.554
77.5	81.447
78.0	77.340
78.5	73.234
79.0	69.470
79.5	65.705
80.0	61.941
80.5	58.176
81.0	54.412
81.5	50.990
82.0	47.226
82.5	43.803

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CANDELA TABULATION - (Cont.)

83.0	40.381
83.5	37.301
84.0	33.879
84.5	30.799
85.0	27.719
85.5	24.639
86.0	21.560
86.5	18.480
87.0	15.742
87.5	12.662
88.0	10.266
88.5	8.213
89.0	6.502
89.5	4.791
90.0	3.422
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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135.5	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
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147.0	0.000
147.5	0.000
148.0	0.000
148.5	0.000
149.0	0.000
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150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
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159.5	0.000
160.0	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	1257.06	N.A.	25.40
0-30	2541.28	N.A.	51.40
0-40	3429.8	N.A.	69.40
0-60	4520.16	N.A.	91.40
0-80	4913.78	N.A.	99.40
0-90	4945.35	N.A.	100.00
10-90	4609.3	N.A.	93.20
20-40	2172.74	N.A.	43.90
20-50	2785.77	N.A.	56.30
40-70	1368.17	N.A.	27.70
60-80	393.63	N.A.	8.00
70-80	115.82	N.A.	2.30
80-90	31.57	N.A.	0.60
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4945.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	336.05
10-20	921.00
20-30	1284.23
30-40	888.52
40-50	613.02
50-60	477.33
60-70	277.81
70-80	115.82
80-90	31.57
90-100	0.09
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

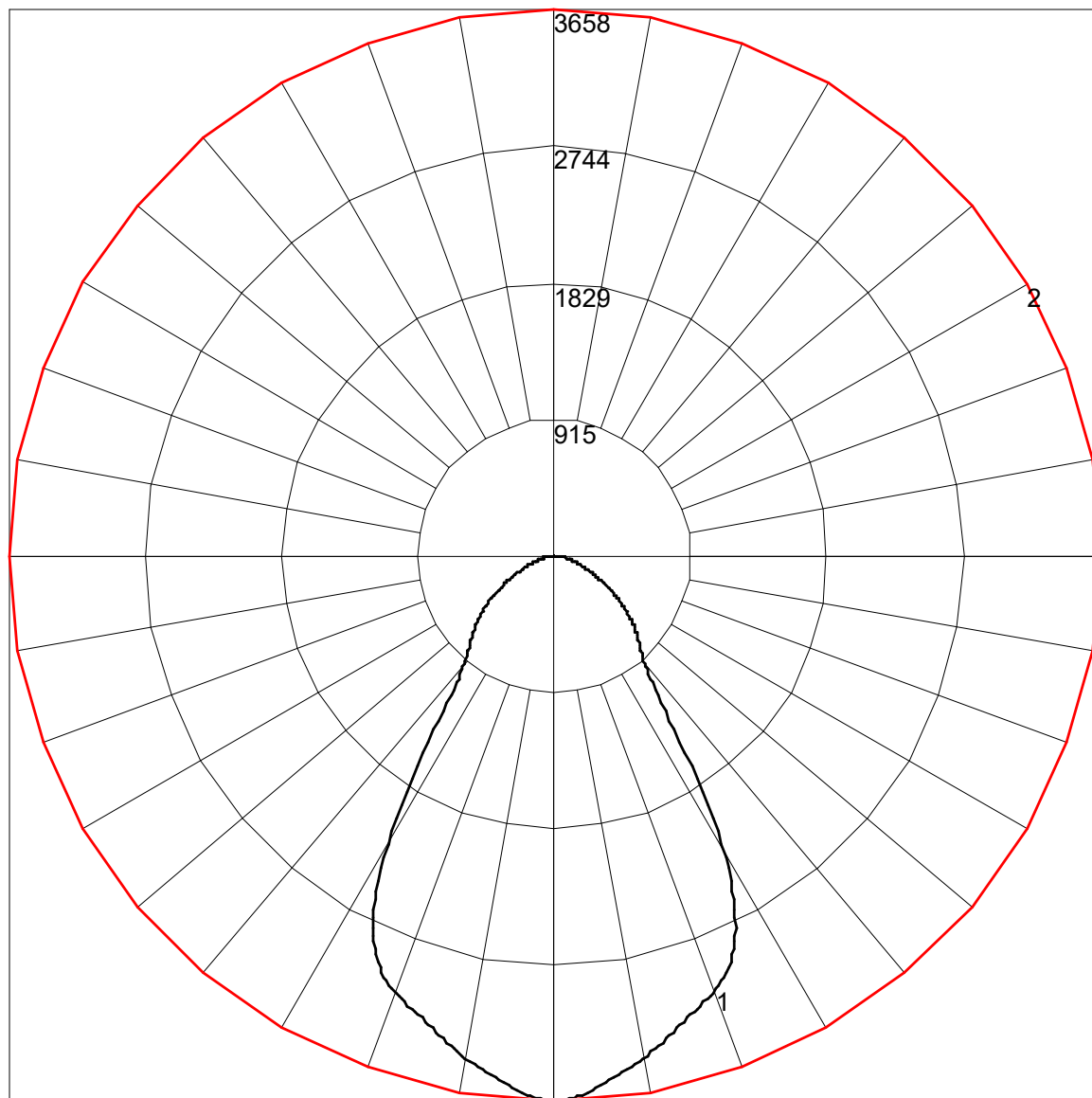
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	23.5	24.8	23.8	25.1	25.4	23.5	24.8	23.8	25.1	25.4
	3H	24.4	25.6	24.8	25.9	26.3	24.4	25.6	24.8	25.9	26.3
	4H	24.7	25.8	25.1	26.1	26.5	24.7	25.8	25.1	26.1	26.5
	6H	24.8	25.9	25.3	26.2	26.6	24.8	25.9	25.3	26.2	26.6
	8H	24.9	25.9	25.3	26.3	26.7	24.9	25.9	25.3	26.3	26.7
	12H	24.9	25.8	25.4	26.2	26.7	24.9	25.8	25.4	26.2	26.7
4H	2H	23.8	24.9	24.2	25.2	25.6	23.8	24.9	24.2	25.2	25.6
	3H	24.9	25.8	25.3	26.2	26.6	24.9	25.8	25.3	26.2	26.6
	4H	25.3	26.1	25.7	26.5	26.9	25.3	26.1	25.7	26.5	26.9
	6H	25.5	26.2	26.0	26.7	27.1	25.5	26.2	26.0	26.7	27.1
	8H	25.6	26.2	26.1	26.7	27.2	25.6	26.2	26.1	26.7	27.2
	12H	25.7	26.2	26.1	26.7	27.2	25.7	26.2	26.1	26.7	27.2
8H	4H	25.3	26.0	25.8	26.4	26.9	25.3	26.0	25.8	26.4	26.9
	6H	25.7	26.2	26.2	26.7	27.2	25.7	26.2	26.2	26.7	27.2
	8H	25.8	26.3	26.3	26.8	27.3	25.8	26.3	26.3	26.8	27.3
	12H	25.9	26.3	26.4	26.8	27.4	25.9	26.3	26.4	26.8	27.4
12H	4H	25.3	25.9	25.8	26.4	26.9	25.3	25.9	25.8	26.4	26.9
	6H	25.7	26.2	26.2	26.6	27.2	25.7	26.2	26.2	26.6	27.2
	8H	25.8	26.3	26.4	26.8	27.3	25.8	26.3	26.4	26.8	27.3

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 3658.273 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.)