



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L46-835-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-L46-835-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	4264
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	62.2
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	57578	57578	57578
55	48017	48017	48017
65	33876	33876	33876
75	20752	20752	20752
85	16366	16366	16366

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CANDELA TABULATION

	<u>0</u>
0.0	3154.475
0.5	3151.524
1.0	3148.573
1.5	3145.622
2.0	3139.720
2.5	3130.868
3.0	3122.015
3.5	3110.212
4.0	3098.408
4.5	3089.556
5.0	3077.752
5.5	3065.949
6.0	3054.145
6.5	3042.342
7.0	3030.538
7.5	3018.735
8.0	3003.981
8.5	2992.177
9.0	2980.374
9.5	2965.619
10.0	2953.816
10.5	2939.357
11.0	2925.193
11.5	2911.028
12.0	2896.864
12.5	2882.995
13.0	2868.831
13.5	2854.077
14.0	2839.617
14.5	2825.453
15.0	2812.174
15.5	2798.600
16.0	2785.322
16.5	2772.338
17.0	2760.239
17.5	2748.141
18.0	2736.337
18.5	2725.124
19.0	2713.911
19.5	2702.402
20.0	2690.599
20.5	2677.910
21.0	2663.451
21.5	2646.926
22.0	2628.335
22.5	2607.679
23.0	2585.253
23.5	2559.875
24.0	2532.137
24.5	2501.743
25.0	2468.104
25.5	2431.808
26.0	2391.381
26.5	2347.118

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CANDELA TABULATION - (Cont.)

27.0	2299.904
27.5	2248.559
28.0	2193.968
28.5	2134.656
29.0	2072.097
29.5	2004.228
30.0	1932.226
30.5	1856.094
31.0	1777.011
31.5	1696.157
32.0	1613.828
32.5	1532.089
33.0	1451.235
33.5	1373.037
34.0	1298.086
34.5	1227.560
35.0	1163.231
35.5	1104.214
36.0	1052.278
36.5	1006.245
37.0	965.818
37.5	931.293
38.0	900.899
38.5	874.046
39.0	850.734
39.5	830.078
40.0	811.193
40.5	794.078
41.0	778.143
41.5	763.684
42.0	750.405
42.5	737.716
43.0	725.618
43.5	714.109
44.0	703.191
44.5	692.863
45.0	682.240
45.5	672.207
46.0	661.879
46.5	651.846
47.0	641.518
47.5	631.190
48.0	620.567
48.5	609.944
49.0	599.911
49.5	589.583
50.0	578.665
50.5	567.451
51.0	555.943
51.5	544.435
52.0	532.926
52.5	521.123
53.0	509.614
53.5	498.401
54.0	486.007
54.5	473.614

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CANDELA TABULATION - (Cont.)

55.0	461.515
55.5	449.122
56.0	437.023
56.5	424.925
57.0	412.826
57.5	400.727
58.0	389.219
58.5	377.416
59.0	365.907
59.5	354.694
60.0	343.481
60.5	332.267
61.0	321.349
61.5	310.726
62.0	300.103
62.5	289.775
63.0	279.447
63.5	269.119
64.0	259.381
64.5	249.348
65.0	239.905
65.5	230.167
66.0	221.020
66.5	211.872
67.0	203.020
67.5	194.167
68.0	185.609
68.5	177.052
69.0	169.085
69.5	160.822
70.0	153.150
70.5	145.478
71.0	138.100
71.5	131.018
72.0	123.936
72.5	117.444
73.0	111.248
73.5	105.641
74.0	100.034
74.5	95.018
75.0	90.001
75.5	85.575
76.0	81.149
76.5	77.313
77.0	73.772
77.5	70.231
78.0	66.690
78.5	63.149
79.0	59.903
79.5	56.657
80.0	53.411
80.5	50.165
81.0	46.919
81.5	43.968
82.0	40.722
82.5	37.771

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CANDELA TABULATION - (Cont.)

83.0	34.820
83.5	32.164
84.0	29.214
84.5	26.558
85.0	23.902
85.5	21.246
86.0	18.590
86.5	15.935
87.0	13.574
87.5	10.918
88.0	8.853
88.5	7.082
89.0	5.607
89.5	4.131
90.0	2.951
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
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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
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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
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	1083.94	N.A.	25.40
0-30	2191.31	N.A.	51.40
0-40	2957.47	N.A.	69.40
0-60	3897.66	N.A.	91.40
0-80	4237.08	N.A.	99.40
0-90	4264.3	N.A.	100.00
10-90	3974.53	N.A.	93.20
20-40	1873.53	N.A.	43.90
20-50	2402.13	N.A.	56.30
40-70	1179.75	N.A.	27.70
60-80	339.42	N.A.	8.00
70-80	99.87	N.A.	2.30
80-90	27.22	N.A.	0.60
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4264.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	289.77
10-20	794.17
20-30	1107.37
30-40	766.15
40-50	528.60
50-60	411.60
60-70	239.55
70-80	99.87
80-90	27.22
90-100	0.08
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	22.9	24.3	23.3	24.6	24.9	UGR Viewed Endwise			
	3H	23.9	25.1	24.3	25.4	25.8	22.9	24.3	23.3	24.6
	4H	24.2	25.3	24.6	25.6	26.0	23.9	25.1	24.3	25.4
	6H	24.3	25.4	24.8	25.7	26.1	24.2	25.3	24.6	25.6
	8H	24.4	25.4	24.8	25.8	26.2	24.3	25.4	24.8	25.7
	12H	24.4	25.3	24.9	25.7	26.2	24.4	25.4	24.8	25.8

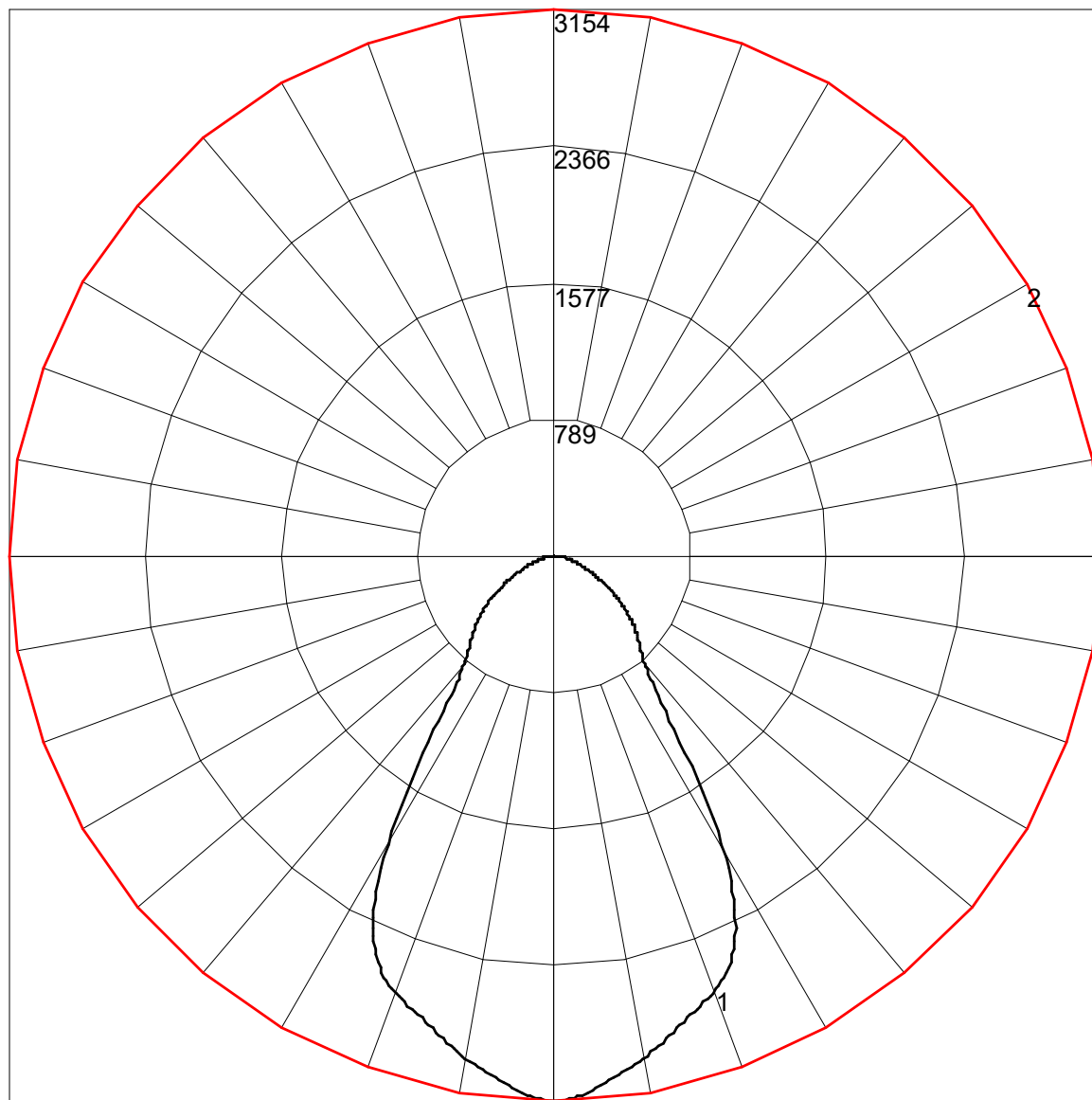
4H	2H	23.3	24.4	23.7	24.7	25.1	24.4	25.3	24.6	25.6
	3H	24.4	25.3	24.8	25.7	26.1	24.2	25.3	24.6	25.6
	4H	24.8	25.6	25.2	26.0	26.4	24.3	25.4	24.8	25.7
	6H	25.0	25.7	25.5	26.2	26.6	24.4	25.4	24.8	25.8
	8H	25.1	25.7	25.6	26.2	26.7	24.4	25.3	24.9	25.7
	12H	25.2	25.7	25.6	26.2	26.7	24.4	25.3	24.9	25.7

8H	4H	24.8	25.5	25.3	25.9	26.4	24.4	25.3	24.6	25.6
	6H	25.2	25.7	25.7	26.2	26.7	24.2	25.3	24.6	25.6
	8H	25.3	25.8	25.8	26.3	26.8	24.3	25.4	24.8	25.7
	12H	25.4	25.8	25.9	26.3	26.9	24.4	25.4	24.8	25.8

12H	4H	24.8	25.4	25.3	25.9	26.4	24.4	25.3	24.6	25.6
	6H	25.2	25.7	25.7	26.1	26.7	24.2	25.3	24.6	25.6
	8H	25.3	25.8	25.9	26.3	26.8	24.3	25.4	24.8	25.7

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 3154.475 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.)