



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P14-835-POE-LN-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.10

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P14-835-PoE-LN-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, clear plas

[MORE] tic optic, clear glass 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	1643
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	17.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.44
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	6180	6180	6180
55	4522	4522	4522
65	3677	3677	3677
75	3002	3002	3002
85	1943	1943	1943

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CANDELA TABULATION

	<u>0</u>
0.0	6145.965
0.5	6140.595
1.0	6122.695
1.5	6091.370
2.0	6048.410
2.5	5993.815
3.0	5928.480
3.5	5851.510
4.0	5763.800
4.5	5667.140
5.0	5562.425
5.5	5447.865
6.0	5324.355
6.5	5192.790
7.0	5053.170
7.5	4906.390
8.0	4751.555
8.5	4592.245
9.0	4429.355
9.5	4261.095
10.0	4091.045
10.5	3918.310
11.0	3742.890
11.5	3566.575
12.0	3390.260
12.5	3215.735
13.0	3043.000
13.5	2872.950
14.0	2706.480
14.5	2544.485
15.0	2388.755
15.5	2239.290
16.0	2096.985
16.5	1961.840
17.0	1832.960
17.5	1710.345
18.0	1594.890
18.5	1487.490
19.0	1386.355
19.5	1292.380
20.0	1202.880
20.5	1117.855
21.0	1039.095
21.5	965.705
22.0	895.895
22.5	831.186
23.0	770.505
23.5	714.299
24.0	661.673
24.5	612.896
25.0	567.788
25.5	525.991
26.0	487.327
26.5	451.706

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CANDELA TABULATION - (Cont.)

27.0	419.039
27.5	388.967
28.0	361.401
28.5	336.251
29.0	313.071
29.5	291.770
30.0	272.259
30.5	254.448
31.0	238.070
31.5	223.123
32.0	209.340
32.5	196.721
33.0	185.086
33.5	174.435
34.0	164.590
34.5	155.640
35.0	147.317
35.5	139.709
36.0	132.728
36.5	126.195
37.0	120.288
37.5	114.828
38.0	109.816
38.5	105.073
39.0	100.777
39.5	96.749
40.0	93.080
40.5	89.589
41.0	86.457
41.5	83.414
42.0	80.639
42.5	78.044
43.0	75.538
43.5	73.211
44.0	70.973
44.5	68.915
45.0	66.946
45.5	65.066
46.0	63.276
46.5	61.486
47.0	59.875
47.5	58.264
48.0	56.653
48.5	55.132
49.0	53.700
49.5	52.357
50.0	51.015
50.5	49.672
51.0	48.419
51.5	47.256
52.0	46.092
52.5	44.929
53.0	43.765
53.5	42.781
54.0	41.707
54.5	40.722

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CANDELA TABULATION - (Cont.)

55.0	39.738
55.5	38.753
56.0	37.769
56.5	36.874
57.0	35.979
57.5	35.173
58.0	34.278
58.5	33.473
59.0	32.667
59.5	31.772
60.0	31.056
60.5	30.251
61.0	29.445
61.5	28.729
62.0	28.013
62.5	27.297
63.0	26.581
63.5	25.865
64.0	25.149
64.5	24.433
65.0	23.807
65.5	23.091
66.0	22.464
66.5	21.748
67.0	21.122
67.5	20.495
68.0	19.869
68.5	19.242
69.0	18.616
69.5	17.989
70.0	17.363
70.5	16.826
71.0	16.199
71.5	15.662
72.0	15.125
72.5	14.499
73.0	13.962
73.5	13.425
74.0	12.888
74.5	12.351
75.0	11.903
75.5	11.366
76.0	10.829
76.5	10.292
77.0	9.845
77.5	9.308
78.0	8.860
78.5	8.413
79.0	7.876
79.5	7.428
80.0	6.981
80.5	6.533
81.0	6.086
81.5	5.638
82.0	5.191
82.5	4.743

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CANDELA TABULATION - (Cont.)

83.0	4.296
83.5	3.848
84.0	3.490
84.5	3.043
85.0	2.595
85.5	2.237
86.0	1.879
86.5	1.521
87.0	1.253
87.5	0.984
88.0	0.716
88.5	0.537
89.0	0.447
89.5	0.268
90.0	0.179
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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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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147.0	0.000
147.5	0.000
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152.0	0.000
152.5	0.000
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153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
156.0	0.000
156.5	0.000
157.0	0.000
157.5	0.000
158.0	0.000
158.5	0.000
159.0	0.000
159.5	0.000
160.0	0.000
160.5	0.000
161.0	0.000
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	1141.26	N.A.	69.50
0-30	1417.25	N.A.	86.30
0-40	1514.82	N.A.	92.20
0-60	1603.31	N.A.	97.60
0-80	1639.57	N.A.	99.80
0-90	1642.77	N.A.	100.00
10-90	1159.7	N.A.	70.60
20-40	373.56	N.A.	22.70
20-50	426.21	N.A.	25.90
40-70	112.14	N.A.	6.80
60-80	36.26	N.A.	2.20
70-80	12.61	N.A.	0.80
80-90	3.20	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1642.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	483.07
10-20	658.19
20-30	275.98
30-40	97.57
40-50	52.65
50-60	35.83
60-70	23.65
70-80	12.61
80-90	3.20
90-100	0.00
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	168	168	168	168	164	164	164	164	157	157	157	150	150	150	144	144	144	141
1	161	158	155	152	158	155	152	150	149	147	145	144	142	141	139	138	137	134
2	155	149	144	140	152	147	142	138	142	139	135	138	135	133	134	132	130	128
3	149	141	135	131	146	139	134	130	136	131	128	133	129	126	129	126	124	122
4	143	135	128	123	141	133	127	122	130	125	121	127	123	120	125	121	118	116
5	138	129	122	117	136	127	121	116	125	120	115	123	118	114	121	117	113	112
6	133	123	116	112	132	122	116	111	120	115	110	118	114	110	117	112	109	107
7	129	119	112	107	127	118	111	107	116	110	106	114	109	106	113	109	105	104
8	125	114	108	103	123	113	107	103	112	106	102	111	106	102	110	105	102	100
9	121	110	104	99	120	110	103	99	108	103	99	107	102	98	106	102	98	97
10	117	107	100	96	116	106	100	96	105	99	96	104	99	95	103	99	95	94

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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	8.9	9.9	9.2	10.2	10.5	UGR Viewed Endwise	8.9	9.9	9.2	10.2	10.5
	3H	10.3	11.1	10.7	11.5	11.8		10.3	11.1	10.7	11.5	11.8
	4H	10.8	11.6	11.2	11.9	12.3		10.8	11.6	11.2	11.9	12.3
	6H	11.1	11.8	11.5	12.2	12.6		11.1	11.8	11.5	12.2	12.6
	8H	11.2	11.9	11.6	12.3	12.7		11.2	11.9	11.6	12.3	12.7
	12H	11.2	11.9	11.7	12.3	12.7		11.2	11.9	11.7	12.3	12.7

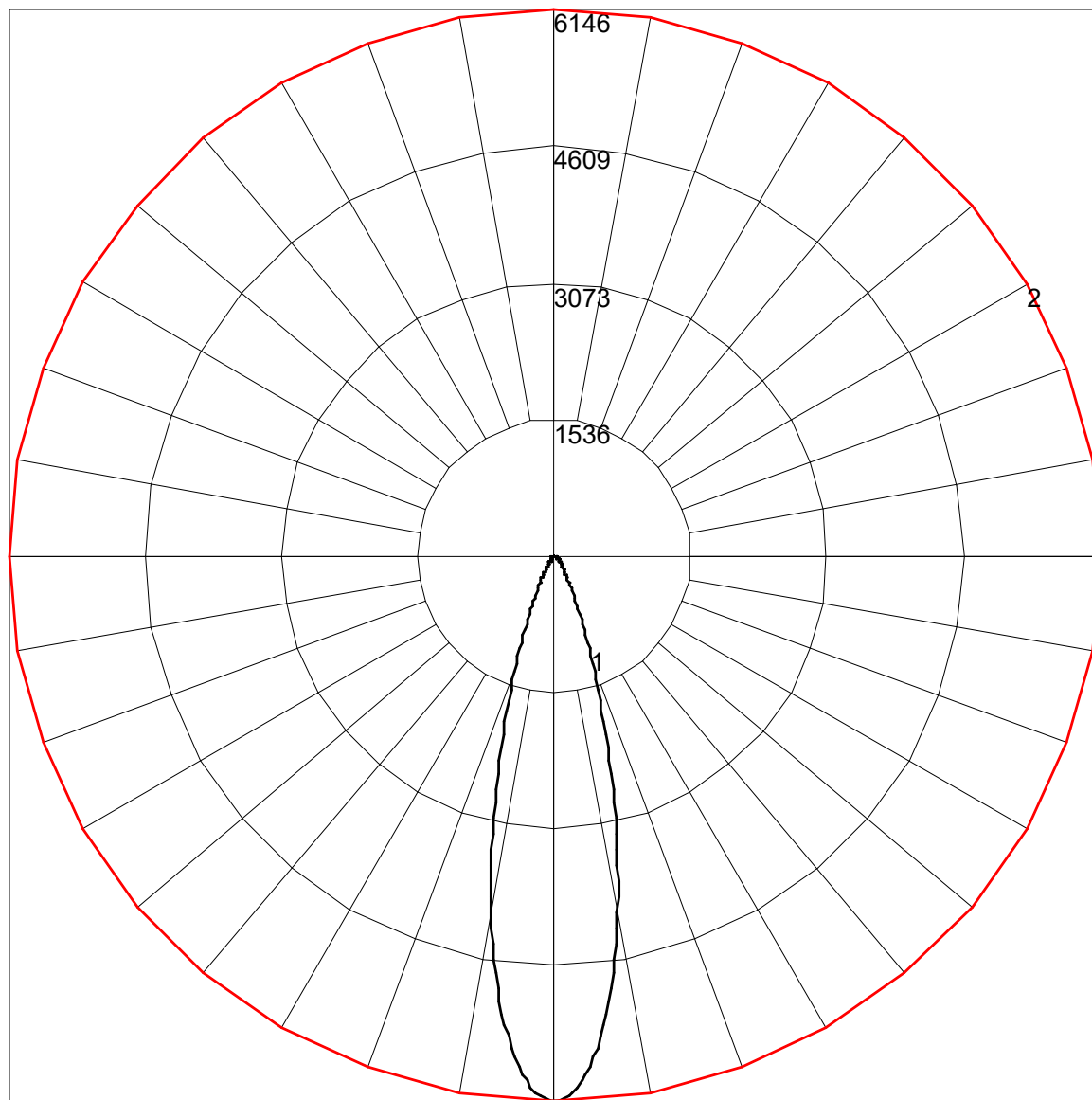
4H	2H	9.3	10.1	9.7	10.4	10.8	9.3	10.1	9.7	10.4	10.8
	3H	10.9	11.5	11.3	11.9	12.3	10.9	11.5	11.3	11.9	12.3
	4H	11.5	12.1	11.9	12.5	12.9	11.5	12.1	11.9	12.5	12.9
	6H	11.9	12.4	12.4	12.9	13.4	11.9	12.4	12.4	12.9	13.4
	8H	12.1	12.5	12.5	13.0	13.5	12.1	12.5	12.5	13.0	13.5
	12H	12.1	12.5	12.6	13.0	13.5	12.1	12.5	12.6	13.0	13.5

8H	4H	11.6	12.1	12.1	12.6	13.0	11.6	12.1	12.1	12.6	13.0
	6H	12.2	12.6	12.7	13.1	13.6	12.2	12.6	12.7	13.1	13.6
	8H	12.4	12.7	13.0	13.3	13.8	12.4	12.7	13.0	13.3	13.8
	12H	12.5	12.8	13.1	13.3	13.9	12.5	12.8	13.1	13.3	13.9

12H	4H	11.6	12.0	12.1	12.5	13.0	11.6	12.0	12.1	12.5	13.0
	6H	12.2	12.6	12.8	13.0	13.6	12.2	12.6	12.8	13.0	13.6
	8H	12.5	12.7	13.0	13.2	13.8	12.5	12.7	13.0	13.2	13.8

Maximum UGR = 13.9

POLAR GRAPH



Maximum Candela = 6145.965 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.)