



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.15

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P14-835-PoE-RN-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	1642
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)	0.46
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	5375	5375	5375
55	3516	3516	3516
65	2392	2392	2392
75	1546	1546	1546
85	1241	1241	1241

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CANDELA TABULATION

	<u>0</u>
0.0	6096.474
0.5	6091.038
1.0	6073.824
1.5	6043.926
2.0	6002.250
2.5	5947.890
3.0	5882.658
3.5	5807.460
4.0	5723.202
4.5	5628.978
5.0	5526.600
5.5	5414.256
6.0	5292.852
6.5	5164.200
7.0	5028.300
7.5	4885.152
8.0	4735.662
8.5	4580.736
9.0	4419.468
9.5	4254.576
10.0	4085.154
10.5	3914.826
11.0	3742.686
11.5	3569.640
12.0	3397.500
12.5	3225.360
13.0	3056.844
13.5	2888.328
14.0	2725.248
14.5	2566.698
15.0	2411.772
15.5	2264.094
16.0	2123.664
16.5	1990.482
17.0	1861.830
17.5	1739.520
18.0	1623.552
18.5	1515.738
19.0	1413.360
19.5	1320.948
20.0	1230.348
20.5	1145.184
21.0	1066.362
21.5	992.976
22.0	923.214
22.5	857.620
23.0	796.736
23.5	740.111
24.0	687.292
24.5	638.096
25.0	592.343
25.5	549.942
26.0	510.803
26.5	474.472

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CANDELA TABULATION - (Cont.)

27.0	440.950
27.5	410.146
28.0	381.788
28.5	355.696
29.0	331.687
29.5	309.671
30.0	289.286
30.5	270.622
31.0	253.499
31.5	237.644
32.0	223.057
32.5	209.558
33.0	197.146
33.5	185.639
34.0	175.039
34.5	165.164
35.0	156.013
35.5	147.587
36.0	139.796
36.5	132.457
37.0	125.753
37.5	119.411
38.0	113.612
38.5	108.267
39.0	103.284
39.5	98.573
40.0	94.315
40.5	90.238
41.0	86.523
41.5	82.990
42.0	79.728
42.5	76.648
43.0	73.748
43.5	71.030
44.0	68.403
44.5	65.957
45.0	63.692
45.5	61.517
46.0	59.434
46.5	57.440
47.0	55.538
47.5	53.635
48.0	51.914
48.5	50.192
49.0	48.652
49.5	47.112
50.0	45.662
50.5	44.213
51.0	42.854
51.5	41.585
52.0	40.317
52.5	39.139
53.0	37.961
53.5	36.874
54.0	35.787
54.5	34.790

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CANDELA TABULATION - (Cont.)

55.0	33.794
55.5	32.797
56.0	31.891
56.5	30.985
57.0	29.989
57.5	29.083
58.0	28.267
58.5	27.361
59.0	26.546
59.5	25.640
60.0	24.824
60.5	23.918
61.0	23.103
61.5	22.288
62.0	21.472
62.5	20.747
63.0	19.932
63.5	19.207
64.0	18.392
64.5	17.667
65.0	16.942
65.5	16.217
66.0	15.583
66.5	14.949
67.0	14.315
67.5	13.681
68.0	13.046
68.5	12.503
69.0	11.959
69.5	11.416
70.0	10.872
70.5	10.419
71.0	9.875
71.5	9.422
72.0	8.969
72.5	8.516
73.0	8.154
73.5	7.792
74.0	7.429
74.5	7.067
75.0	6.704
75.5	6.342
76.0	6.070
76.5	5.798
77.0	5.527
77.5	5.255
78.0	4.983
78.5	4.802
79.0	4.530
79.5	4.258
80.0	4.077
80.5	3.805
81.0	3.533
81.5	3.352
82.0	3.080
82.5	2.899

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CANDELA TABULATION - (Cont.)

83.0	2.718
83.5	2.446
84.0	2.265
84.5	1.993
85.0	1.812
85.5	1.631
86.0	1.450
86.5	1.268
87.0	1.087
87.5	0.906
88.0	0.725
88.5	0.544
89.0	0.453
89.5	0.362
90.0	0.272
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
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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	1144.72	N.A.	69.70
0-30	1431.54	N.A.	87.20
0-40	1534.44	N.A.	93.50
0-60	1615.35	N.A.	98.40
0-80	1639.73	N.A.	99.90
0-90	1641.83	N.A.	100.00
10-90	1161.11	N.A.	70.70
20-40	389.72	N.A.	23.70
20-50	440.08	N.A.	26.80
40-70	97.95	N.A.	6.00
60-80	24.38	N.A.	1.50
70-80	7.35	N.A.	0.40
80-90	2.09	N.A.	0.10
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	1641.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	480.72
10-20	664.00
20-30	286.82
30-40	102.90
40-50	50.36
50-60	30.55
60-70	17.04
70-80	7.35
80-90	2.09
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	168	168	168	168	164	164	164	164	157	157	157	150	150	150	144	144	144	141
1	162	158	155	153	158	155	153	150	150	148	146	144	143	141	140	138	137	135
2	155	150	145	141	152	147	143	139	143	139	136	139	136	133	135	133	131	128
3	149	142	136	132	147	140	135	130	137	132	128	133	130	126	130	127	125	123
4	144	135	129	124	142	134	128	123	131	126	122	128	124	121	126	122	119	117
5	139	129	123	118	137	128	122	117	126	120	116	124	119	115	122	118	114	113
6	134	124	117	112	132	123	117	112	121	116	111	119	114	111	118	113	110	108
7	130	119	113	108	128	118	112	108	117	111	107	115	110	107	114	109	106	104
8	125	115	108	104	124	114	108	104	113	107	103	112	106	103	110	106	102	101
9	122	111	104	100	120	110	104	100	109	104	100	108	103	99	107	102	99	97
10	118	107	101	97	117	107	101	97	106	100	96	105	100	96	104	99	96	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	7.3	8.2	7.6	8.5	8.9	7.3	8.2	7.6	8.5	8.9
	3H	8.1	9.0	8.5	9.3	9.7	8.1	9.0	8.5	9.3	9.7
	4H	8.4	9.2	8.8	9.5	9.9	8.4	9.2	8.8	9.5	9.9
	6H	8.5	9.3	8.9	9.6	10.0	8.5	9.3	8.9	9.6	10.0
	8H	8.6	9.3	9.0	9.7	10.1	8.6	9.3	9.0	9.7	10.1
	12H	8.6	9.2	9.0	9.6	10.1	8.6	9.2	9.0	9.6	10.1

UGR Viewed Endwise

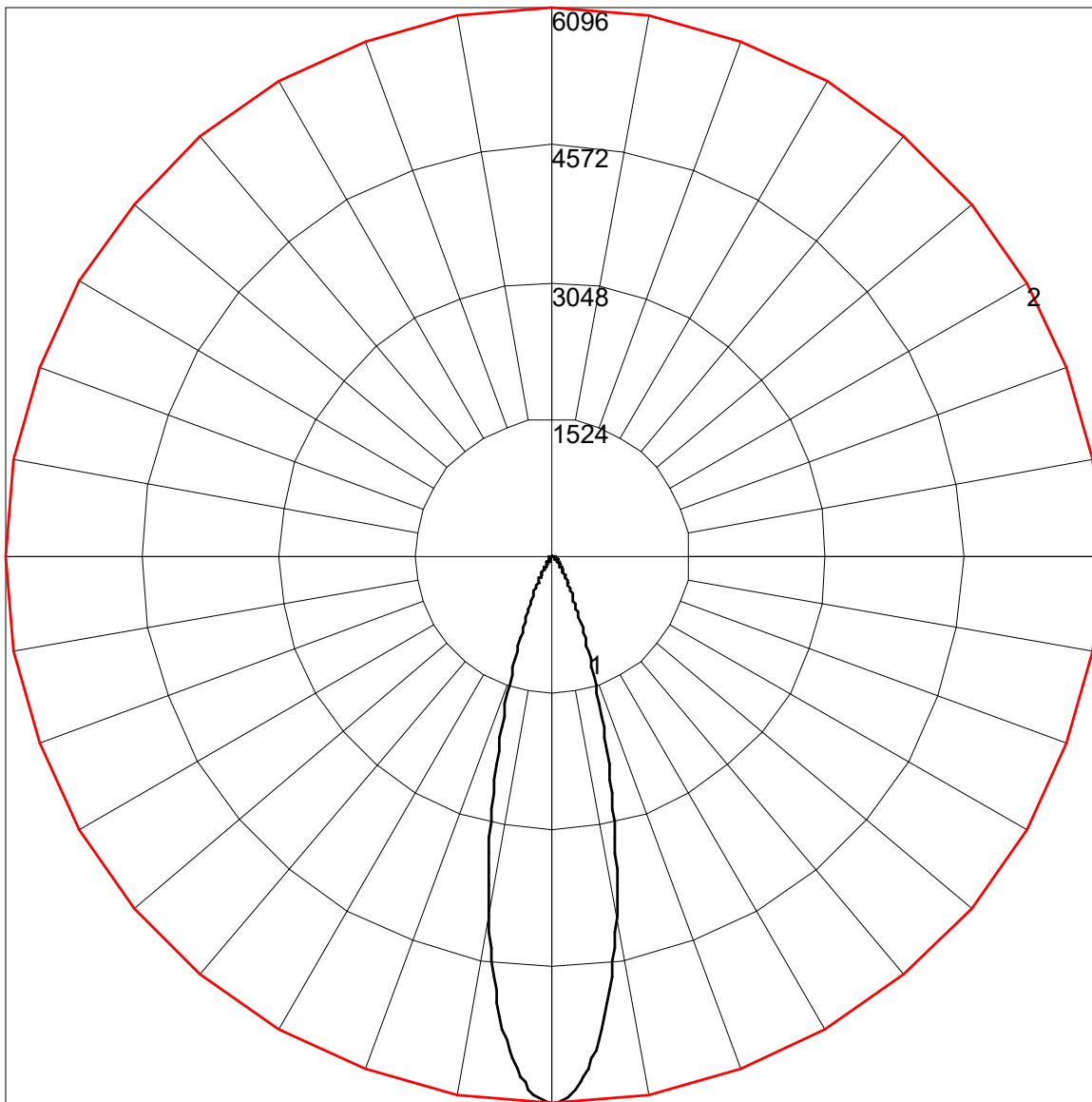
4H	2H	7.5	8.3	7.9	8.6	9.0	7.5	8.3	7.9	8.6	9.0
	3H	8.5	9.2	8.9	9.6	10.0	8.5	9.2	8.9	9.6	10.0
	4H	8.8	9.4	9.3	9.8	10.3	8.8	9.4	9.3	9.8	10.3
	6H	9.1	9.6	9.6	10.0	10.5	9.1	9.6	9.6	10.0	10.5
	8H	9.2	9.6	9.6	10.1	10.6	9.2	9.6	9.6	10.1	10.6
	12H	9.2	9.6	9.7	10.1	10.6	9.2	9.6	9.7	10.1	10.6

8H	4H	8.9	9.3	9.4	9.8	10.3	8.9	9.3	9.4	9.8	10.3
	6H	9.2	9.6	9.7	10.1	10.6	9.2	9.6	9.7	10.1	10.6
	8H	9.4	9.7	9.9	10.2	10.7	9.4	9.7	9.9	10.2	10.7
	12H	9.5	9.8	10.0	10.3	10.8	9.5	9.8	10.0	10.3	10.8

12H	4H	8.8	9.2	9.3	9.7	10.2	8.8	9.2	9.3	9.7	10.2
	6H	9.2	9.6	9.8	10.0	10.6	9.2	9.6	9.8	10.0	10.6
	8H	9.4	9.7	9.9	10.2	10.8	9.4	9.7	9.9	10.2	10.8

Maximum UGR = 10.8

POLAR GRAPH



Maximum Candela = 6096.474 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.)