



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-P27-835-POE-LM-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.09

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 11 OCT 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-P27-835-PoE-LM-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl

[MORE] astic 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	3215
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.56
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	14361	14361	14361
55	10515	10515	10515
65	8568	8568	8568
75	6973	6973	6973
85	4587	4587	4587

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CANDELA TABULATION

	<u>0</u>
0.0	7591.500
0.5	7588.000
1.0	7577.500
1.5	7561.750
2.0	7540.750
2.5	7511.000
3.0	7477.750
3.5	7439.250
4.0	7393.750
4.5	7346.500
5.0	7294.000
5.5	7234.500
6.0	7169.750
6.5	7098.000
7.0	7021.000
7.5	6937.000
8.0	6844.250
8.5	6744.500
9.0	6639.500
9.5	6527.500
10.0	6406.750
10.5	6279.000
11.0	6142.500
11.5	5995.500
12.0	5843.250
12.5	5682.250
13.0	5514.250
13.5	5337.500
14.0	5155.500
14.5	4966.500
15.0	4774.000
15.5	4578.000
16.0	4382.000
16.5	4184.250
17.0	3991.750
17.5	3799.250
18.0	3605.000
18.5	3414.250
19.0	3225.250
19.5	3043.250
20.0	2866.500
20.5	2696.750
21.0	2537.500
21.5	2385.250
22.0	2233.000
22.5	2089.500
23.0	1953.000
23.5	1823.500
24.0	1702.925
24.5	1588.825
25.0	1482.250
25.5	1381.800
26.0	1288.700
26.5	1201.550

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CANDELA TABULATION - (Cont.)

27.0	1120.525
27.5	1045.450
28.0	975.450
28.5	910.700
29.0	850.675
29.5	794.675
30.0	742.875
30.5	694.575
31.0	649.775
31.5	608.125
32.0	569.275
32.5	533.225
33.0	499.625
33.5	468.300
34.0	439.425
34.5	412.650
35.0	387.625
35.5	364.700
36.0	343.350
36.5	323.925
37.0	305.900
37.5	289.450
38.0	274.575
38.5	260.750
39.0	248.150
39.5	236.600
40.0	226.100
40.5	216.300
41.0	207.375
41.5	199.150
42.0	191.450
42.5	184.450
43.0	177.800
43.5	171.675
44.0	166.075
44.5	160.650
45.0	155.575
45.5	150.850
46.0	146.475
46.5	142.275
47.0	138.250
47.5	134.400
48.0	130.900
48.5	127.400
49.0	124.075
49.5	120.925
50.0	117.950
50.5	114.975
51.0	112.175
51.5	109.375
52.0	106.750
52.5	104.300
53.0	101.675
53.5	99.225
54.0	96.950
54.5	94.675

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CANDELA TABULATION - (Cont.)

55.0	92.400
55.5	90.125
56.0	88.025
56.5	85.925
57.0	83.825
57.5	81.725
58.0	79.800
58.5	77.875
59.0	75.950
59.5	74.200
60.0	72.450
60.5	70.525
61.0	68.775
61.5	67.025
62.0	65.275
62.5	63.700
63.0	61.950
63.5	60.375
64.0	58.800
64.5	57.225
65.0	55.475
65.5	53.900
66.0	52.325
66.5	50.925
67.0	49.350
67.5	47.775
68.0	46.375
68.5	44.975
69.0	43.400
69.5	42.000
70.0	40.600
70.5	39.200
71.0	37.975
71.5	36.575
72.0	35.175
72.5	33.950
73.0	32.550
73.5	31.325
74.0	30.100
74.5	28.875
75.0	27.650
75.5	26.425
76.0	25.200
76.5	23.975
77.0	22.750
77.5	21.700
78.0	20.475
78.5	19.425
79.0	18.375
79.5	17.150
80.0	16.100
80.5	15.050
81.0	14.000
81.5	12.950
82.0	11.900
82.5	10.850

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CANDELA TABULATION - (Cont.)

83.0	9.975
83.5	8.925
84.0	8.050
84.5	7.000
85.0	6.125
85.5	5.250
86.0	4.375
86.5	3.675
87.0	2.975
87.5	2.450
88.0	1.925
88.5	1.575
89.0	1.225
89.5	0.875
90.0	0.525
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
145.0	0.000
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146.0	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	1952.43	N.A.	60.70
0-30	2659.54	N.A.	82.70
0-40	2916.66	N.A.	90.70
0-60	3123.36	N.A.	97.10
0-80	3207.94	N.A.	99.80
0-90	3215.41	N.A.	100.00
10-90	2546.89	N.A.	79.20
20-40	964.23	N.A.	30.00
20-50	1087.67	N.A.	33.80
40-70	261.90	N.A.	8.10
60-80	84.58	N.A.	2.60
70-80	29.37	N.A.	0.90
80-90	7.48	N.A.	0.20
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	3215.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	668.52
10-20	1283.91
20-30	707.11
30-40	257.13
40-50	123.44
50-60	83.25
60-70	55.21
70-80	29.37
80-90	7.48
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	330	330	330	330	322	322	322	322	308	308	308	295	295	295	283	283	283	277
1	315	308	301	295	308	302	296	291	291	286	282	280	277	273	271	268	266	261
2	301	289	278	269	295	284	274	266	275	267	261	267	261	255	259	254	250	245
3	288	272	259	249	283	268	256	247	261	251	243	254	246	239	248	241	236	232
4	276	257	243	233	271	254	241	231	248	237	229	243	233	226	238	230	223	219
5	265	244	230	219	260	241	228	218	237	225	216	232	222	214	228	219	212	209
6	254	232	218	207	250	230	216	206	226	214	205	223	212	204	219	210	202	199
7	244	222	207	197	241	220	206	196	217	204	195	214	203	194	211	201	193	190
8	235	212	198	188	232	211	197	187	208	196	187	205	194	186	203	193	185	182
9	227	204	189	180	224	202	189	179	200	188	179	198	186	178	195	185	178	175
10	219	196	182	172	216	194	181	172	192	180	172	190	179	171	189	178	171	168

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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	10.1	11.1	10.4	11.4	11.7	UGR Viewed Endwise	10.1	11.1	10.4	11.4	11.7
	3H	11.5	12.4	11.9	12.7	13.1		11.5	12.4	11.9	12.7	13.1
	4H	12.0	12.8	12.4	13.2	13.6		12.0	12.8	12.4	13.2	13.6
	6H	12.3	13.1	12.8	13.5	13.9		12.3	13.1	12.8	13.5	13.9
	8H	12.4	13.1	12.9	13.5	13.9		12.4	13.1	12.9	13.5	13.9
	12H	12.5	13.1	12.9	13.5	14.0		12.5	13.1	12.9	13.5	14.0

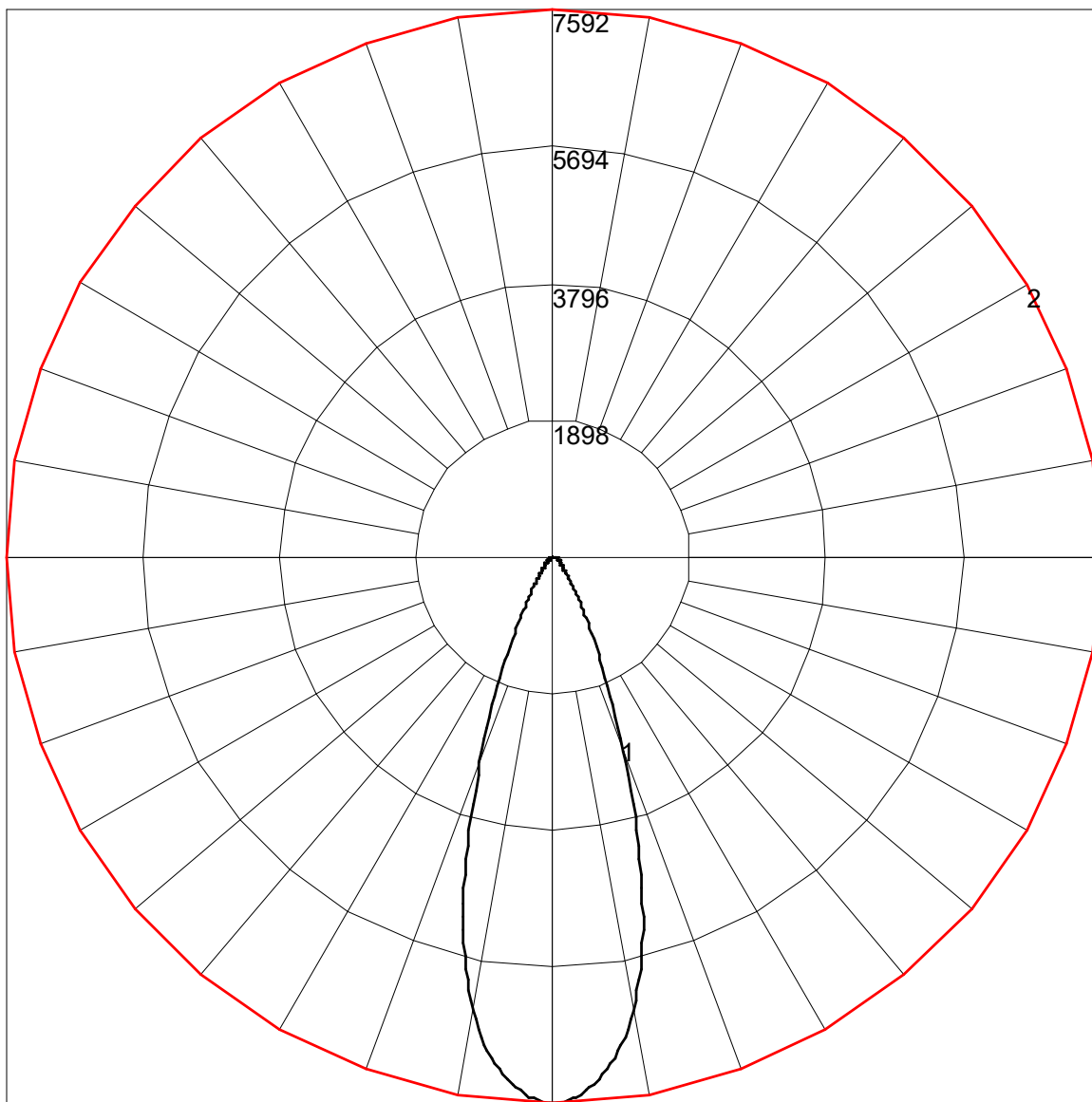
4H	2H	10.5	11.3	10.9	11.7	12.1	10.5	11.3	10.9	11.7	12.1
	3H	12.1	12.8	12.5	13.2	13.6	12.1	12.8	12.5	13.2	13.6
	4H	12.7	13.3	13.1	13.7	14.2	12.7	13.3	13.1	13.7	14.2
	6H	13.2	13.7	13.6	14.1	14.6	13.2	13.7	13.6	14.1	14.6
	8H	13.3	13.8	13.8	14.2	14.7	13.3	13.8	13.8	14.2	14.7
	12H	13.4	13.8	13.8	14.3	14.7	13.4	13.8	13.8	14.3	14.7

8H	4H	12.9	13.4	13.4	13.8	14.3	12.9	13.4	13.4	13.8	14.3
	6H	13.4	13.8	14.0	14.3	14.8	13.4	13.8	14.0	14.3	14.8
	8H	13.6	14.0	14.2	14.5	15.0	13.6	14.0	14.2	14.5	15.0
	12H	13.8	14.1	14.3	14.6	15.1	13.8	14.1	14.3	14.6	15.1

12H	4H	12.9	13.3	13.4	13.8	14.2	12.9	13.3	13.4	13.8	14.2
	6H	13.5	13.8	14.0	14.3	14.8	13.5	13.8	14.0	14.3	14.8
	8H	13.7	14.0	14.2	14.5	15.1	13.7	14.0	14.2	14.5	15.1

Maximum UGR = 15.1

POLAR GRAPH



Maximum Candela = 7591.5 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.)