

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : COPY\_6DR-L40-835-DIM-UNV-O-W-OF-CS.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.19

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 6-16-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 6DR-L40-935-DIM-UNV-O-W-OF-BL (BLACK)

[LUMINAIRE] Black formed aluminum housing, specular reflector, no lens

[MORE] enclosure

[LAMP] One white LED

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1558
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	36.4646
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	3892	3892	3892
55	1892	1892	1892
65	667	667	667
75	182	182	182
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	1718.958
0.5	1715.446
1.0	1707.644
1.5	1690.478
2.0	1667.849
2.5	1633.907
3.0	1593.723
3.5	1554.709
4.0	1517.255
4.5	1484.483
5.0	1447.420
5.5	1413.088
6.0	1388.509
6.5	1372.513
7.0	1363.540
7.5	1359.248
8.0	1358.858
8.5	1360.809
9.0	1363.930
9.5	1368.222
10.0	1372.903
10.5	1376.025
11.0	1377.585
11.5	1377.585
12.0	1375.634
12.5	1372.123
13.0	1366.661
13.5	1360.419
14.0	1353.396
14.5	1345.984
15.0	1338.571
15.5	1332.329
16.0	1327.257
16.5	1322.965
17.0	1319.454
17.5	1317.503
18.0	1317.503
18.5	1318.284
19.0	1320.234
19.5	1322.185
20.0	1323.746
20.5	1325.696
21.0	1327.257
21.5	1329.208
22.0	1331.158
22.5	1333.499
23.0	1337.401
23.5	1341.692
24.0	1346.764
24.5	1352.616
25.0	1359.639
25.5	1366.661
26.0	1372.903
26.5	1376.805

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CANDELA TABULATION - (Cont.)

27.0	1379.146
27.5	1378.755
28.0	1374.854
28.5	1368.612
29.0	1355.347
29.5	1331.939
30.0	1297.996
30.5	1253.911
31.0	1201.242
31.5	1137.259
32.0	1060.401
32.5	973.010
33.0	878.986
33.5	782.231
34.0	685.866
34.5	591.453
35.0	502.891
35.5	421.742
36.0	350.307
36.5	287.728
37.0	233.850
37.5	192.378
38.0	161.713
38.5	137.993
39.0	117.861
39.5	101.671
40.0	90.005
40.5	81.656
41.0	75.570
41.5	70.849
42.0	66.870
42.5	63.359
43.0	60.238
43.5	57.390
44.0	54.815
44.5	52.435
45.0	50.250
45.5	48.182
46.0	46.232
46.5	44.398
47.0	42.642
47.5	40.965
48.0	39.365
48.5	37.766
49.0	36.283
49.5	34.801
50.0	33.279
50.5	31.835
51.0	30.392
51.5	28.948
52.0	27.544
52.5	26.139
53.0	24.813
53.5	23.486
54.0	22.199
54.5	20.990

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CANDELA TABULATION - (Cont.)

55.0	19.819
55.5	18.649
56.0	17.556
56.5	16.503
57.0	15.528
57.5	14.591
58.0	13.694
58.5	12.836
59.0	12.016
59.5	11.236
60.0	10.495
60.5	9.832
61.0	9.168
61.5	8.544
62.0	7.959
62.5	7.413
63.0	6.905
63.5	6.437
64.0	5.969
64.5	5.540
65.0	5.150
65.5	4.760
66.0	4.409
66.5	4.096
67.0	3.784
67.5	3.511
68.0	3.238
68.5	3.004
69.0	2.731
69.5	2.536
70.0	2.341
70.5	2.146
71.0	1.951
71.5	1.795
72.0	1.639
72.5	1.483
73.0	1.326
73.5	1.209
74.0	1.092
74.5	0.975
75.0	0.858
75.5	0.780
76.0	0.663
76.5	0.585
77.0	0.507
77.5	0.429
78.0	0.390
78.5	0.312
79.0	0.273
79.5	0.195
80.0	0.156
80.5	0.117
81.0	0.078
81.5	0.039
82.0	0.039
82.5	0.000

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CANDELA TABULATION - (Cont.)

83.0	0.000
83.5	0.000
84.0	0.000
84.5	0.000
85.0	0.000
85.5	0.000
86.0	0.000
86.5	0.000
87.0	0.000
87.5	0.000
88.0	0.000
88.5	0.000
89.0	0.000
89.5	0.000
90.0	0.000
90.5	0.000
91.0	0.000
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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

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
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134.0	0.000
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
145.5	0.000
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
148.0	0.000
148.5	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	515.59	N.A.	33.10
0-30	1141.03	N.A.	73.20
0-40	1492.57	N.A.	95.80
0-60	1551.49	N.A.	99.60
0-80	1558.00	N.A.	100.00
0-90	1558.02	N.A.	100.00
10-90	1422.36	N.A.	91.30
20-40	976.98	N.A.	62.70
20-50	1017.68	N.A.	65.30
40-70	64.39	N.A.	4.10
60-80	6.52	N.A.	0.40
70-80	1.04	N.A.	0.10
80-90	0.02	N.A.	0.00
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	1558.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	135.67
10-20	379.93
20-30	625.44
30-40	351.54
40-50	40.71
50-60	18.21
60-70	5.47
70-80	1.04
80-90	0.02
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	79	73	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	71	62	56	52	70	61	55	52	60	55	52	59	55	51	59	54	51	50

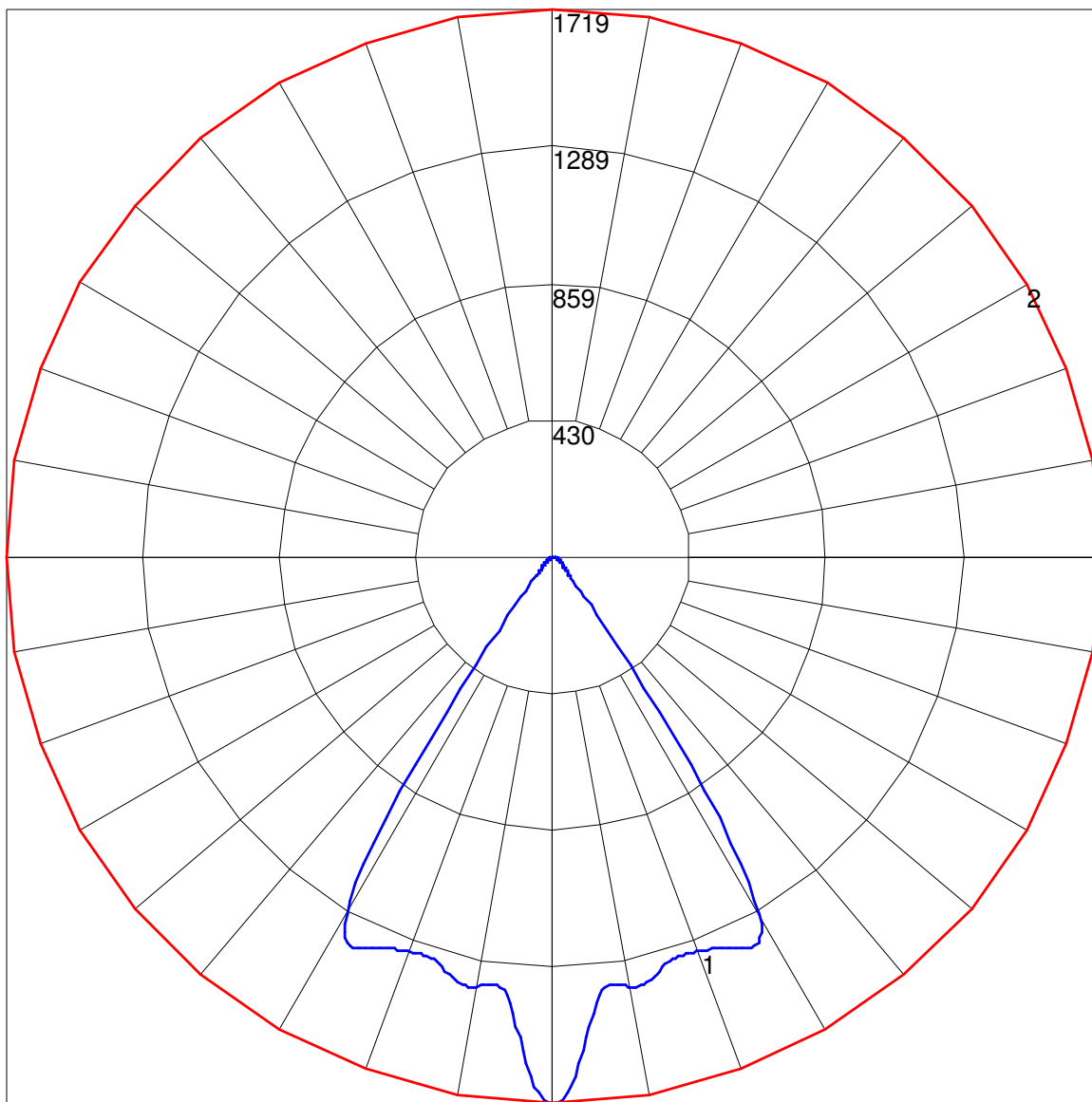
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**UGR TABLE - CORRECTED**

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	3.5	4.5	3.9	4.8	5.1	3.5	4.5	3.9	4.8	5.1
	3H	3.6	4.5	4.0	4.8	5.2	3.6	4.5	4.0	4.8	5.2
	4H	3.6	4.3	4.0	4.7	5.1	3.6	4.3	4.0	4.7	5.1
	6H	3.5	4.1	3.9	4.5	4.9	3.5	4.1	3.9	4.5	4.9
	8H	3.4	4.0	3.8	4.4	4.8	3.4	4.0	3.8	4.4	4.8
	12H	3.3	4.0	3.8	4.3	4.8	3.3	4.0	3.8	4.3	4.8
4H	2H	3.5	4.2	3.9	4.6	5.0	3.5	4.2	3.9	4.6	5.0
	3H	3.6	4.2	4.0	4.6	5.0	3.6	4.2	4.0	4.6	5.0
	4H	3.5	4.0	4.0	4.5	4.9	3.5	4.0	4.0	4.5	4.9
	6H	3.4	3.9	3.9	4.3	4.8	3.4	3.9	3.9	4.3	4.8
	8H	3.3	3.8	3.8	4.2	4.7	3.3	3.8	3.8	4.2	4.7
	12H	3.3	3.6	3.8	4.1	4.6	3.3	3.6	3.8	4.1	4.6
8H	4H	3.3	3.8	3.8	4.2	4.7	3.3	3.8	3.8	4.2	4.7
	6H	3.2	3.6	3.7	4.1	4.6	3.2	3.6	3.7	4.1	4.6
	8H	3.2	3.4	3.7	4.0	4.5	3.2	3.4	3.7	4.0	4.5
	12H	3.1	3.3	3.6	3.8	4.4	3.1	3.3	3.6	3.8	4.4
12H	4H	3.3	3.6	3.8	4.1	4.6	3.3	3.6	3.8	4.1	4.6
	6H	3.2	3.5	3.7	3.9	4.5	3.2	3.5	3.7	3.9	4.5
	8H	3.1	3.3	3.6	3.8	4.4	3.1	3.3	3.6	3.8	4.4

Maximum UGR = 5.2

POLAR GRAPH



Maximum Candela = 1718.958 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)