

IES INDOOR REPORT

PHOTOMETRIC FILENAME : COPY_6DR-L20-835-DIM-UNV-O-W-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 12326812.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 6-7-2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6DR-L20-940-DIM-UNV-OW-OF-CS-WETCC-N-F1
[LUMINAIRE] Black formed aluminum housing, specular reflector
[MORE] enclosure
[LAMP] One white LED
[BALLAST] Philips XI025C070V054DSM5
[OTHER] 24.4 C, 120.066 V, 0.160677 A, 19 W, 0.994105 PF, 59.9708
[MORE] Hz
[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	1420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.94
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	3637	3637	3637
55	1774	1774	1774
65	676	676	676
75	272	272	272
85	180	180	180

CANDELA TABULATION

	<u>0</u>
0.0	1728.152
0.5	1717.431
1.0	1690.987
1.5	1651.678
2.0	1600.935
2.5	1548.046
3.0	1494.444
3.5	1441.556
4.0	1382.950
4.5	1328.633
5.0	1291.468
5.5	1262.880
6.0	1242.154
6.5	1228.574
7.0	1219.998
7.5	1217.139
8.0	1217.854
8.5	1219.998
9.0	1225.715
9.5	1231.433
10.0	1238.580
10.5	1245.012
11.0	1250.015
11.5	1252.874
12.0	1251.445
12.5	1247.157
13.0	1239.295
13.5	1230.004
14.0	1219.283
14.5	1210.707
15.0	1202.845
15.5	1194.983
16.0	1189.980
16.5	1187.836
17.0	1189.266
17.5	1191.410
18.0	1194.983
18.5	1198.557
19.0	1201.416
19.5	1204.274
20.0	1204.989
20.5	1205.704
21.0	1207.133
21.5	1208.563
22.0	1210.707
22.5	1213.566
23.0	1217.854
23.5	1223.571
24.0	1230.004
24.5	1237.151
25.0	1244.298
25.5	1251.445
26.0	1258.592
26.5	1265.739

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CANDELA TABULATION - (Cont.)

27.0	1271.456
27.5	1274.315
28.0	1272.171
28.5	1265.739
29.0	1255.733
29.5	1241.439
30.0	1215.710
30.5	1175.686
31.0	1119.939
31.5	1052.757
32.0	976.284
32.5	892.664
33.0	801.897
33.5	704.840
34.0	608.927
34.5	517.731
35.0	433.896
35.5	358.352
36.0	290.527
36.5	235.852
37.0	194.399
37.5	165.740
38.0	141.869
38.5	119.856
39.0	102.131
39.5	89.266
40.0	80.190
40.5	73.972
41.0	69.183
41.5	65.252
42.0	61.822
42.5	58.749
43.0	55.961
43.5	53.460
44.0	51.101
44.5	48.957
45.0	46.956
45.5	45.026
46.0	43.240
46.5	41.524
47.0	39.880
47.5	38.308
48.0	36.807
48.5	35.306
49.0	33.877
49.5	32.519
50.0	31.090
50.5	29.732
51.0	28.374
51.5	27.016
52.0	25.801
52.5	24.443
53.0	23.228
53.5	22.013
54.0	20.869
54.5	19.654

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CANDELA TABULATION - (Cont.)

55.0	18.582
55.5	17.582
56.0	16.581
56.5	15.509
57.0	14.651
57.5	13.794
58.0	12.936
58.5	12.150
59.0	11.435
59.5	10.721
60.0	10.077
60.5	9.434
61.0	8.862
61.5	8.291
62.0	7.790
62.5	7.218
63.0	6.790
63.5	6.361
64.0	5.932
64.5	5.575
65.0	5.217
65.5	4.860
66.0	4.503
66.5	4.217
67.0	3.931
67.5	3.645
68.0	3.431
68.5	3.145
69.0	2.930
69.5	2.716
70.0	2.573
70.5	2.359
71.0	2.216
71.5	2.073
72.0	1.930
72.5	1.787
73.0	1.644
73.5	1.501
74.0	1.429
74.5	1.358
75.0	1.286
75.5	1.144
76.0	1.001
76.5	1.001
77.0	0.929
77.5	0.858
78.0	0.786
78.5	0.715
79.0	0.643
79.5	0.643
80.0	0.572
80.5	0.572
81.0	0.500
81.5	0.500
82.0	0.429
82.5	0.357

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CANDELA TABULATION - (Cont.)

83.0	0.357
83.5	0.357
84.0	0.286
84.5	0.286
85.0	0.286
85.5	0.286
86.0	0.214
86.5	0.214
87.0	0.214
87.5	0.143
88.0	0.214
88.5	0.143
89.0	0.143
89.5	0.143
90.0	0.143
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

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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135.0	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

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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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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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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Zone	Lumens	%Lamp	%Fixt
0-20	466.58	N.A.	32.90
0-30	1040.71	N.A.	73.30
0-40	1357.68	N.A.	95.60
0-60	1412.52	N.A.	99.50
0-80	1419.4	N.A.	100.00
0-90	1419.73	N.A.	100.00
10-90	1296.82	N.A.	91.30
20-40	891.10	N.A.	62.80
20-50	928.84	N.A.	65.40
40-70	60.31	N.A.	4.20
60-80	6.88	N.A.	0.50
70-80	1.41	N.A.	0.10
80-90	0.33	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	1419.73	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.91
10-20	343.67
20-30	574.13
30-40	316.97
40-50	37.74
50-60	17.11
60-70	5.47
70-80	1.41
80-90	0.33
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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	88	87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

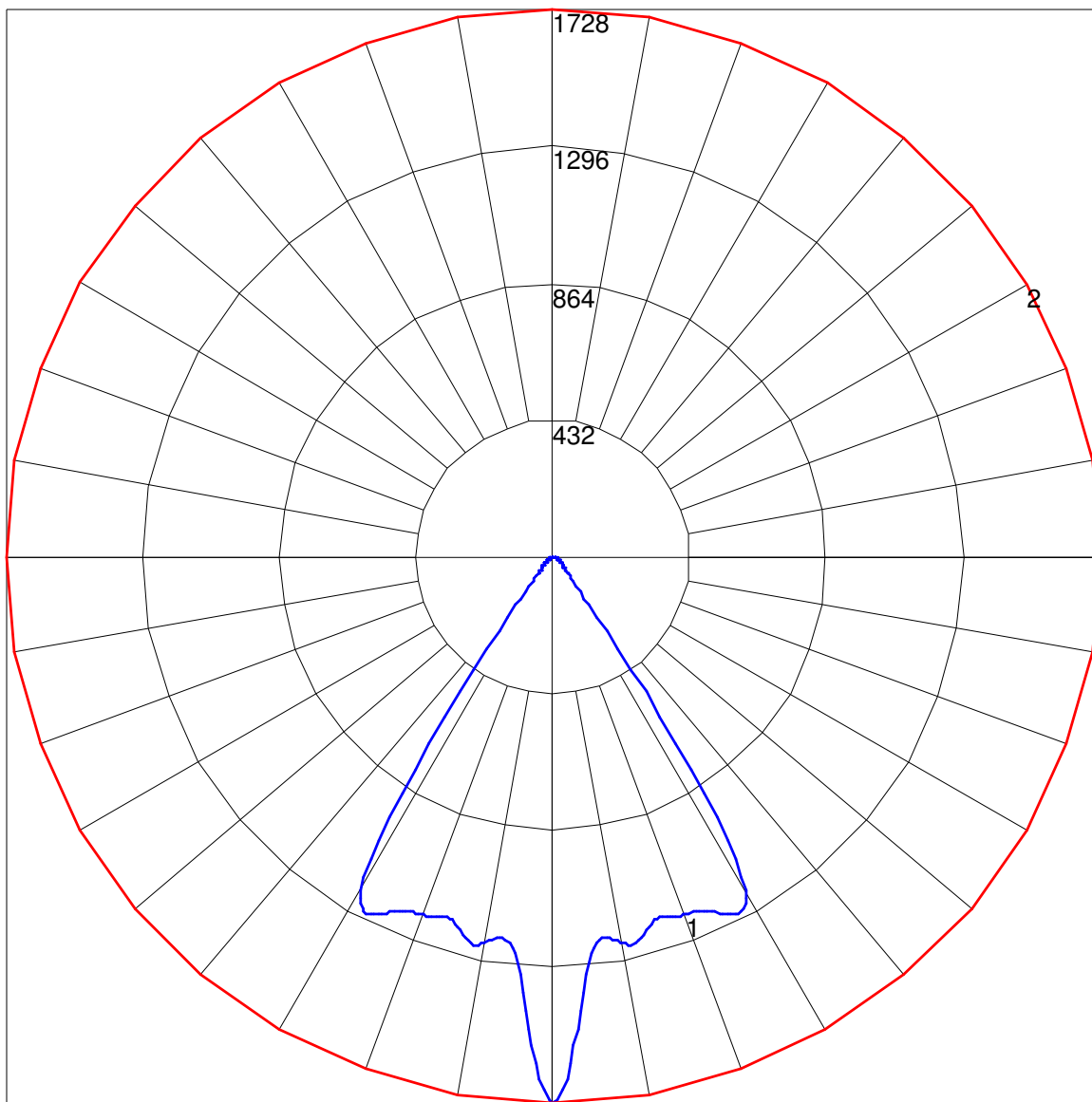
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UGR TABLE - CORRECTED

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

Maximum UGR = 5.1

POLAR GRAPH



Maximum Candela = 1728.152 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.)