



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-L21-9TC-DIM-UNV-RW-OF-WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from 12326812.12  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 6/5/2018  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-L21-9TC-DIM-UNV-RW-OF-WH  
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glas  
 [MORE] s patterned lens enclosure  
 [LAMP] One white LED  
 [BALLAST] Philips XI025C070V054DSM5  
 [OTHER] 24.5 C, 119.971 V, 0.160031 A, 19.085 W, 0.994058 PF, 59.9693  
 [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	1556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
Total Luminaire Watts	40.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.94
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	21015	21015	21015
55	17525	17525	17525
65	12364	12364	12364
75	7574	7574	7574
85	5973	5973	5973

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CANDELA TABULATION

	<u>0</u>
0.0	1151.313
0.5	1150.236
1.0	1149.159
1.5	1148.082
2.0	1145.928
2.5	1142.697
3.0	1139.466
3.5	1135.158
4.0	1130.850
4.5	1127.619
5.0	1123.311
5.5	1119.003
6.0	1114.695
6.5	1110.387
7.0	1106.079
7.5	1101.771
8.0	1096.386
8.5	1092.078
9.0	1087.770
9.5	1082.385
10.0	1078.077
10.5	1072.800
11.0	1067.630
11.5	1062.461
12.0	1057.291
12.5	1052.229
13.0	1047.059
13.5	1041.674
14.0	1036.397
14.5	1031.228
15.0	1026.381
15.5	1021.427
16.0	1016.580
16.5	1011.842
17.0	1007.426
17.5	1003.010
18.0	998.702
18.5	994.610
19.0	990.517
19.5	986.317
20.0	982.009
20.5	977.378
21.0	972.100
21.5	966.069
22.0	959.284
22.5	951.745
23.0	943.560
23.5	934.298
24.0	924.174
24.5	913.081
25.0	900.803
25.5	887.556
26.0	872.801
26.5	856.646

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**CANDELA TABULATION - (Cont.)**

27.0	839.414
27.5	820.674
28.0	800.750
28.5	779.102
29.0	756.269
29.5	731.498
30.0	705.220
30.5	677.433
31.0	648.569
31.5	619.060
32.0	589.011
32.5	559.178
33.0	529.669
33.5	501.128
34.0	473.772
34.5	448.032
35.0	424.553
35.5	403.013
36.0	384.058
36.5	367.257
37.0	352.502
37.5	339.901
38.0	328.808
38.5	319.007
39.0	310.499
39.5	302.960
40.0	296.067
40.5	289.821
41.0	284.005
41.5	278.728
42.0	273.881
42.5	269.250
43.0	264.834
43.5	260.634
44.0	256.649
44.5	252.880
45.0	249.002
45.5	245.341
46.0	241.571
46.5	237.909
47.0	234.140
47.5	230.370
48.0	226.493
48.5	222.616
49.0	218.954
49.5	215.185
50.0	211.200
50.5	207.107
51.0	202.907
51.5	198.707
52.0	194.506
52.5	190.198
53.0	185.998
53.5	181.905
54.0	177.382
54.5	172.859

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**CANDELA TABULATION - (Cont.)**

55.0	168.443
55.5	163.919
56.0	159.504
56.5	155.088
57.0	150.672
57.5	146.257
58.0	142.056
58.5	137.748
59.0	133.548
59.5	129.455
60.0	125.363
60.5	121.270
61.0	117.285
61.5	113.408
62.0	109.531
62.5	105.761
63.0	101.992
63.5	98.222
64.0	94.668
64.5	91.007
65.0	87.560
65.5	84.006
66.0	80.667
66.5	77.329
67.0	74.098
67.5	70.867
68.0	67.743
68.5	64.620
69.0	61.712
69.5	58.697
70.0	55.896
70.5	53.096
71.0	50.404
71.5	47.819
72.0	45.234
72.5	42.865
73.0	40.603
73.5	38.557
74.0	36.510
74.5	34.679
75.0	32.849
75.5	31.233
76.0	29.618
76.5	28.217
77.0	26.925
77.5	25.633
78.0	24.340
78.5	23.048
79.0	21.863
79.5	20.678
80.0	19.494
80.5	18.309
81.0	17.124
81.5	16.047
82.0	14.863
82.5	13.786

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CANDELA TABULATION - (Cont.)

83.0	12.709
83.5	11.739
84.0	10.662
84.5	9.693
85.0	8.724
85.5	7.754
86.0	6.785
86.5	5.816
87.0	4.954
87.5	3.985
88.0	3.231
88.5	2.585
89.0	2.046
89.5	1.508
90.0	1.077
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

IES INDOOR REPORT  
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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
118.0	0.000
118.5	0.000
119.0	0.000
119.5	0.000
120.0	0.000
120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
122.5	0.000
123.0	0.000
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
133.5	0.000
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
149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
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	395.61	N.A.	25.40
0-30	799.78	N.A.	51.40
0-40	1079.41	N.A.	69.40
0-60	1422.56	N.A.	91.40
0-80	1546.44	N.A.	99.40
0-90	1556.38	N.A.	100.00
10-90	1450.61	N.A.	93.20
20-40	683.79	N.A.	43.90
20-50	876.72	N.A.	56.30
40-70	430.58	N.A.	27.70
60-80	123.88	N.A.	8.00
70-80	36.45	N.A.	2.30
80-90	9.93	N.A.	0.60
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1556.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	105.76
10-20	289.85
20-30	404.17
30-40	279.63
40-50	192.93
50-60	150.22
60-70	87.43
70-80	36.45
80-90	9.93
90-100	0.03
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

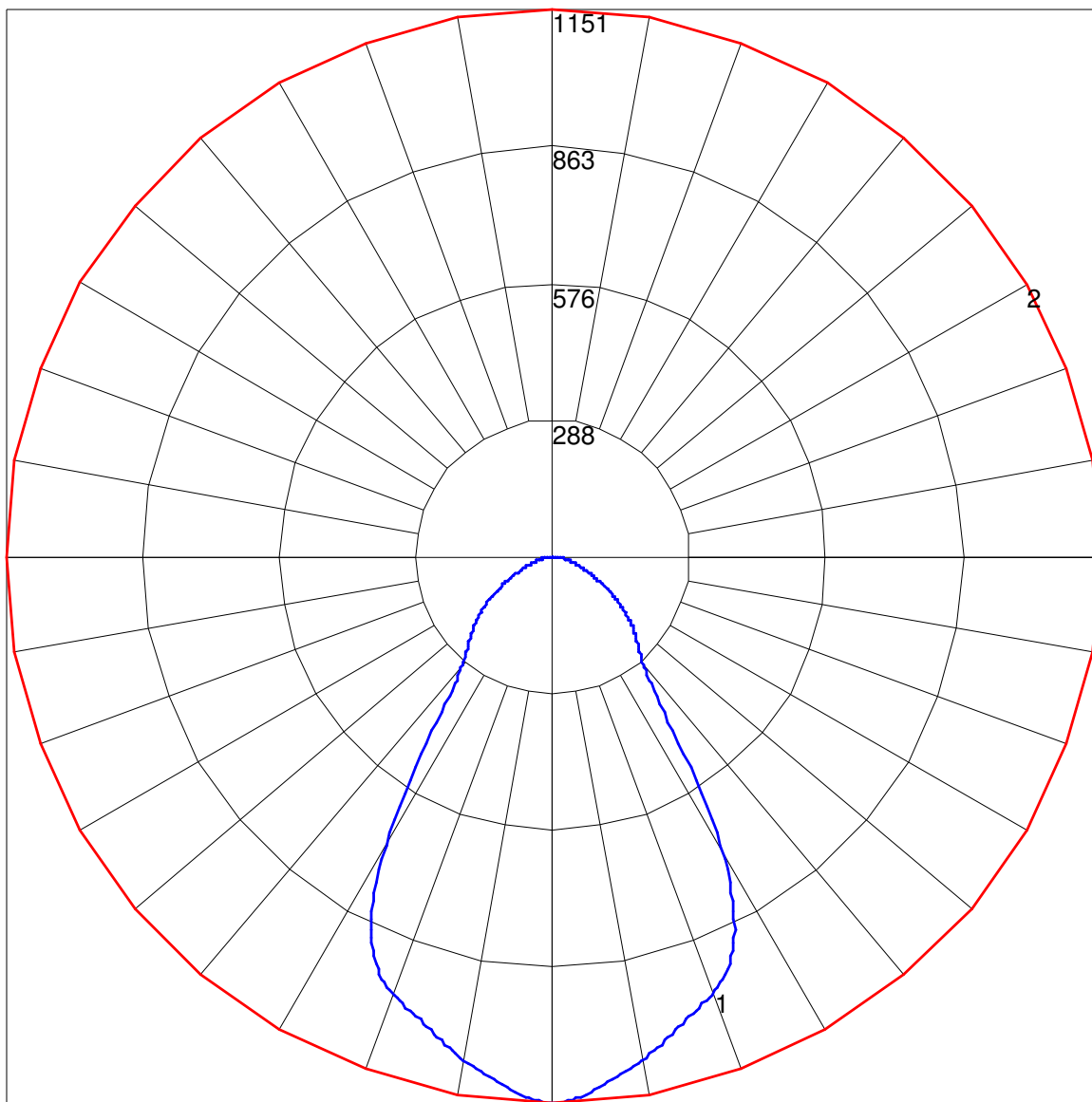
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	128	128	128	128	125	125	125	125	120	120	120	115	115	115	110	110	110	108
1	120	116	113	110	117	114	111	108	109	107	104	105	103	101	101	100	98	96
2	112	105	99	95	109	103	98	94	100	95	91	96	93	89	93	90	88	85
3	104	95	89	83	102	94	87	82	91	85	81	88	83	80	85	82	78	76
4	97	87	80	74	95	86	79	73	83	77	72	81	76	71	79	74	71	69
5	91	80	72	66	89	79	71	66	77	70	65	75	69	65	73	68	64	62
6	86	74	66	60	84	73	65	60	71	64	59	69	63	59	68	63	58	57
7	80	68	60	55	79	67	60	55	66	59	54	64	58	54	63	58	54	52
8	76	63	56	50	74	63	55	50	61	55	50	60	54	50	59	54	49	48
9	72	59	52	47	70	59	51	46	57	51	46	56	50	46	55	50	46	44
10	68	55	48	43	66	55	48	43	54	47	43	53	47	43	52	47	43	41

POLAR GRAPH



Maximum Candela = 1151.313 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.)