



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.07
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 6/1/2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-L21-9TC-DIM-UNV-LW-OF-WH
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glass
 [MORE] s patterned lens enclosure
 [LAMP] One white LED
 [BALLAST] Philips XI025C070V054DSM5
 [OTHER] 24.9 C, 120.064 V, 0.160062 A, 19.1038 W, 0.994075 PF, 59.97 H
 [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	1682
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	40.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
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	27957	27957	27957
55	23275	23275	23275
65	17682	17682	17682
75	12823	12823	12823
85	8357	8357	8357

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CANDELA TABULATION

	<u>0</u>
0.0	1069.784
0.5	1069.569
1.0	1068.707
1.5	1067.415
2.0	1065.799
2.5	1063.645
3.0	1061.491
3.5	1059.014
4.0	1056.752
4.5	1054.491
5.0	1052.875
5.5	1051.367
6.0	1049.967
6.5	1048.567
7.0	1047.059
7.5	1045.659
8.0	1044.259
8.5	1042.967
9.0	1041.674
9.5	1040.597
10.0	1039.520
10.5	1038.659
11.0	1037.905
11.5	1037.474
12.0	1036.720
12.5	1035.966
13.0	1034.889
13.5	1033.489
14.0	1031.766
14.5	1029.827
15.0	1027.781
15.5	1025.196
16.0	1022.396
16.5	1019.596
17.0	1016.796
17.5	1013.888
18.0	1010.765
18.5	1007.210
19.0	1003.226
19.5	998.810
20.0	993.748
20.5	988.255
21.0	981.470
21.5	973.393
22.0	964.238
22.5	953.899
23.0	942.590
23.5	930.313
24.0	916.742
24.5	902.095
25.0	886.263
25.5	869.785
26.0	852.230
26.5	833.921

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CANDELA TABULATION - (Cont.)

27.0	814.427
27.5	794.395
28.0	773.286
28.5	750.992
29.0	727.837
29.5	703.496
30.0	678.510
30.5	652.770
31.0	627.029
31.5	601.074
32.0	575.872
32.5	551.747
33.0	528.592
33.5	506.944
34.0	487.019
34.5	468.926
35.0	452.771
35.5	437.908
36.0	424.877
36.5	412.922
37.0	402.260
37.5	392.674
38.0	383.951
38.5	375.981
39.0	368.442
39.5	361.657
40.0	355.087
40.5	348.948
41.0	343.240
41.5	337.640
42.0	332.255
42.5	327.300
43.0	322.238
43.5	317.284
44.0	312.438
44.5	307.699
45.0	302.852
45.5	298.221
46.0	293.483
46.5	288.744
47.0	283.897
47.5	279.158
48.0	274.312
48.5	269.465
49.0	264.619
49.5	259.557
50.0	254.711
50.5	249.756
51.0	244.802
51.5	239.740
52.0	234.678
52.5	229.616
53.0	224.555
53.5	219.493
54.0	214.646
54.5	209.692

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CANDELA TABULATION - (Cont.)

55.0	204.522
55.5	199.460
56.0	194.399
56.5	189.660
57.0	184.921
57.5	179.967
58.0	175.013
58.5	170.166
59.0	165.427
59.5	160.688
60.0	156.165
60.5	151.642
61.0	147.226
61.5	142.810
62.0	138.610
62.5	134.410
63.0	130.317
63.5	126.224
64.0	122.240
64.5	118.362
65.0	114.485
65.5	110.716
66.0	106.957
66.5	103.263
67.0	99.612
67.5	96.036
68.0	92.525
68.5	89.003
69.0	85.589
69.5	82.207
70.0	78.923
70.5	75.745
71.0	72.633
71.5	69.617
72.0	66.709
72.5	63.888
73.0	61.141
73.5	58.449
74.0	55.864
74.5	53.333
75.0	50.845
75.5	48.443
76.0	46.085
76.5	43.769
77.0	41.518
77.5	39.311
78.0	37.167
78.5	35.067
79.0	33.010
79.5	31.028
80.0	29.057
80.5	27.151
81.0	25.266
81.5	23.392
82.0	21.562
82.5	19.741

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CANDELA TABULATION - (Cont.)

83.0	17.964
83.5	16.220
84.0	14.496
84.5	12.806
85.0	11.158
85.5	9.564
86.0	8.024
86.5	6.537
87.0	5.094
87.5	3.888
88.0	2.973
88.5	2.176
89.0	1.508
89.5	0.948
90.0	0.603
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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PHOTOMETRIC FILENAME : 6DR-L21-9TC-DIM-UNV-LW-OF-WH.IES

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

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	389.69	N.A.	23.20
0-30	787.72	N.A.	46.80
0-40	1082.86	N.A.	64.40
0-60	1499.6	N.A.	89.20
0-80	1668.39	N.A.	99.20
0-90	1681.73	N.A.	100.00
10-90	1581.62	N.A.	94.00
20-40	693.17	N.A.	41.20
20-50	927.04	N.A.	55.10
40-70	530.85	N.A.	31.60
60-80	168.80	N.A.	10.00
70-80	54.68	N.A.	3.30
80-90	13.34	N.A.	0.80
90-110	0.02	N.A.	0.00
90-120	0.02	N.A.	0.00
90-130	0.02	N.A.	0.00
90-150	0.02	N.A.	0.00
90-180	0.02	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1681.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.11
10-20	289.58
20-30	398.03
30-40	295.14
40-50	233.87
50-60	182.86
60-70	114.12
70-80	54.68
80-90	13.34
90-100	0.02
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

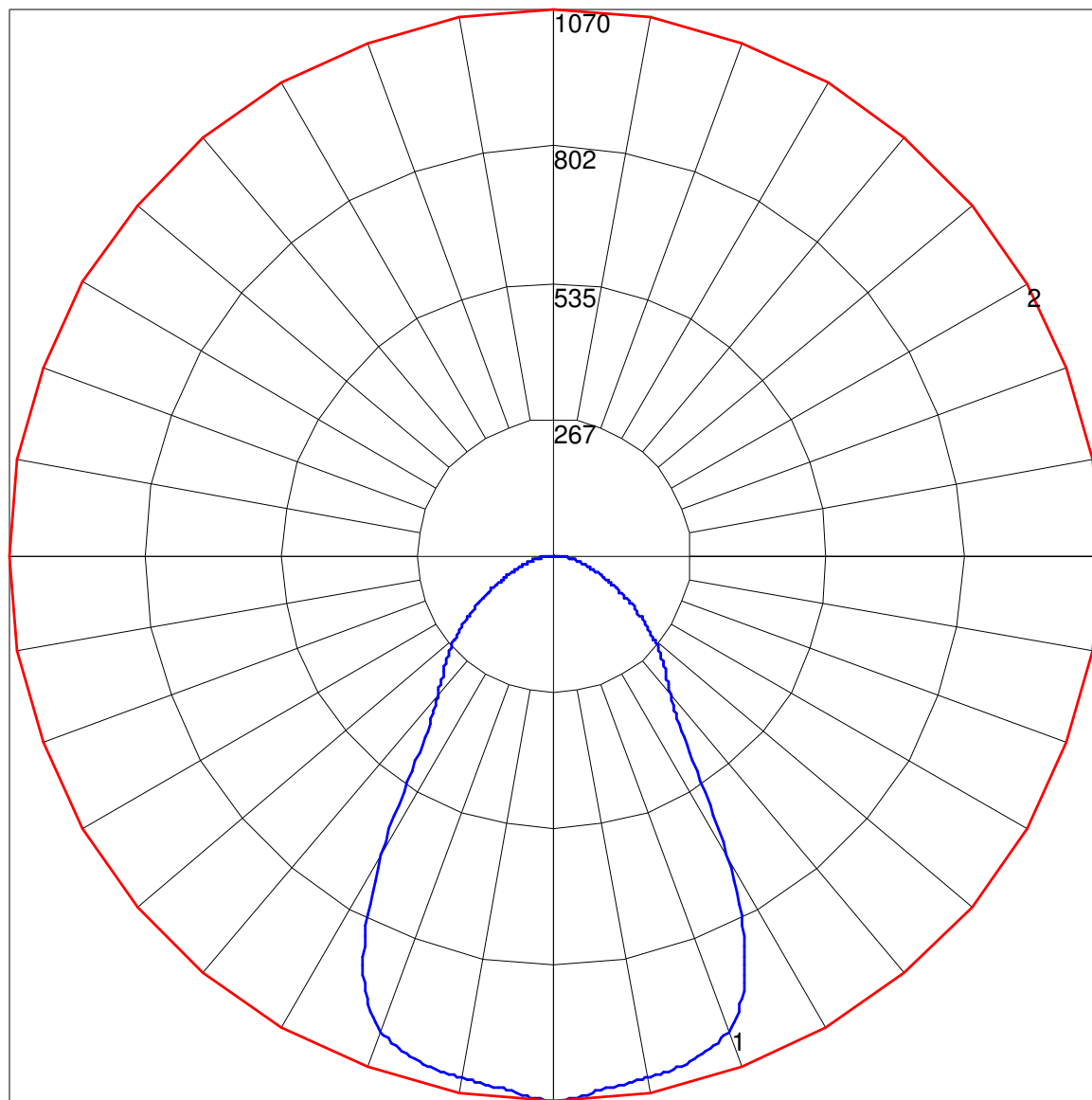
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	115	112	108	117	113	110	107	108	106	103	104	102	100	101	99	97	95
2	111	104	98	93	108	102	96	92	98	93	89	95	91	87	91	88	86	83
3	103	94	86	80	100	92	85	80	89	83	78	86	81	77	83	79	76	74
4	96	85	77	71	94	84	76	70	81	75	70	79	73	69	76	72	68	66
5	89	78	69	63	87	76	69	63	74	68	62	72	66	62	70	65	61	59
6	84	71	63	57	82	70	62	57	68	62	56	67	61	56	65	60	55	54
7	78	66	58	52	77	65	57	52	63	56	51	62	56	51	61	55	51	49
8	74	61	53	47	72	60	53	47	59	52	47	58	51	47	56	51	47	45
9	69	57	49	44	68	56	49	43	55	48	43	54	48	43	53	47	43	41
10	66	53	45	40	64	52	45	40	51	45	40	50	44	40	50	44	40	38

POLAR GRAPH



Maximum Candela = 1069.784 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.)