



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-L21-9TC-DIM-UNV-ON-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.05
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 6/7/2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-L21-9TC-DIM-UNV-ON-OF-CS
 [LUMINAIRE] Black formed aluminum housing, specular reflector, no lens
 [MORE] enclosure
 [LAMP] One white LED
 [BALLAST] Philips XI025C070V054DSM5
 [OTHER] 25 C, 119.973 V, 0.160074 A, 19.0907 W, 0.994073 PF, 59.9705 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	2182
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	40.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.18
Spacing Criterion (90-270)	0.18
Spacing Criterion (Diagonal)	0.20
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	1084	1084	1084
55	411	411	411
65	140	140	140
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	23694.000
0.5	23435.520
1.0	22595.460
1.5	21410.760
2.0	20064.510
2.5	18664.410
3.0	17167.380
3.5	15584.190
4.0	13904.070
4.5	12213.180
5.0	10586.910
5.5	9261.123
6.0	8198.124
6.5	7327.908
7.0	6590.163
7.5	5956.887
8.0	5403.309
8.5	4917.582
9.0	4491.090
9.5	4118.448
10.0	3797.502
10.5	3519.636
11.0	3275.157
11.5	3065.142
12.0	2882.052
12.5	2722.656
13.0	2584.800
13.5	2465.253
14.0	2360.784
14.5	2269.239
15.0	2188.464
15.5	2116.305
16.0	2050.608
16.5	1991.373
17.0	1937.523
17.5	1886.904
18.0	1842.747
18.5	1801.821
19.0	1760.895
19.5	1719.969
20.0	1677.966
20.5	1633.809
21.0	1587.498
21.5	1537.956
22.0	1481.952
22.5	1420.563
23.0	1352.712
23.5	1283.784
24.0	1218.087
24.5	1156.698
25.0	1099.617
25.5	1044.690
26.0	995.148
26.5	949.914

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CANDELA TABULATION - (Cont.)

27.0	914.373
27.5	886.371
28.0	866.985
28.5	851.907
29.0	838.983
29.5	827.136
30.0	813.135
30.5	784.056
31.0	744.207
31.5	694.665
32.0	640.815
32.5	583.734
33.0	525.576
33.5	460.956
34.0	389.874
34.5	322.023
35.0	260.634
35.5	205.707
36.0	152.934
36.5	106.623
37.0	66.774
37.5	40.926
38.0	29.079
38.5	26.925
39.0	25.848
39.5	24.771
40.0	22.617
40.5	22.617
41.0	21.540
41.5	20.463
42.0	19.386
42.5	18.309
43.0	17.232
43.5	16.155
44.0	16.155
44.5	15.078
45.0	14.001
45.5	14.001
46.0	12.924
46.5	12.924
47.0	11.847
47.5	10.770
48.0	10.770
48.5	9.693
49.0	9.693
49.5	8.616
50.0	8.616
50.5	7.539
51.0	7.539
51.5	6.462
52.0	6.462
52.5	5.385
53.0	5.385
53.5	5.385
54.0	4.308
54.5	4.308

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CANDELA TABULATION - (Cont.)

55.0	4.308
55.5	4.308
56.0	4.308
56.5	3.231
57.0	3.231
57.5	3.231
58.0	3.231
58.5	3.231
59.0	2.154
59.5	2.154
60.0	2.154
60.5	2.154
61.0	2.154
61.5	2.154
62.0	2.154
62.5	2.154
63.0	2.154
63.5	1.077
64.0	1.077
64.5	1.077
65.0	1.077
65.5	1.077
66.0	1.077
66.5	1.077
67.0	1.077
67.5	1.077
68.0	1.077
68.5	1.077
69.0	1.077
69.5	1.077
70.0	1.077
70.5	1.077
71.0	1.077
71.5	1.077
72.0	1.077
72.5	1.077
73.0	1.077
73.5	1.077
74.0	0.000
74.5	0.000
75.0	0.000
75.5	0.000
76.0	0.000
76.5	0.000
77.0	0.000
77.5	0.000
78.0	0.000
78.5	0.000
79.0	0.000
79.5	0.000
80.0	0.000
80.5	0.000
81.0	0.000
81.5	0.000
82.0	0.000
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
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
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
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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	1449.3	N.A.	66.40
0-30	1972.26	N.A.	90.40
0-40	2164.42	N.A.	99.20
0-60	2179.84	N.A.	99.90
0-80	2181.67	N.A.	100.00
0-90	2181.67	N.A.	100.00
10-90	1372.17	N.A.	62.90
20-40	715.12	N.A.	32.80
20-50	726.48	N.A.	33.30
40-70	16.83	N.A.	0.80
60-80	1.83	N.A.	0.10
70-80	0.42	N.A.	0.00
80-90	0.00	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	2181.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	809.49
10-20	639.81
20-30	522.96
30-40	192.16
40-50	11.36
50-60	4.05
60-70	1.41
70-80	0.42
80-90	0.00
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

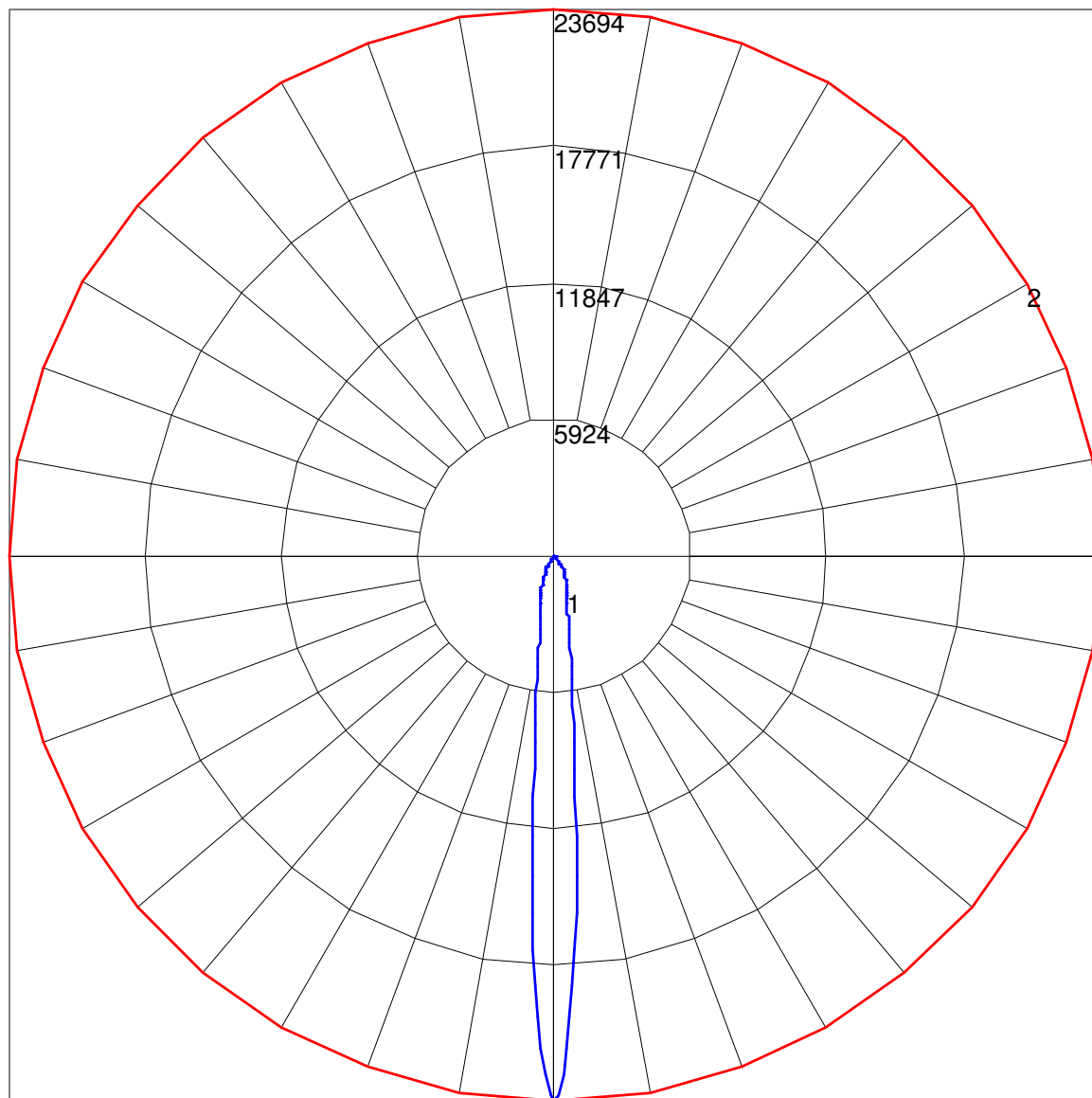
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	128	128	128	128	125	125	125	125	120	120	120	115	115	115	110	110	110	108
1	124	121	119	117	121	119	117	115	115	113	112	111	110	109	107	106	105	104
2	119	115	112	109	117	113	110	108	110	108	106	107	105	103	104	103	101	100
3	115	110	106	103	113	109	105	102	106	103	100	103	101	99	101	99	97	96
4	111	105	101	97	110	104	100	97	102	98	96	100	97	95	98	96	94	92
5	108	101	96	93	106	100	96	93	98	95	92	97	93	91	95	92	90	89
6	104	97	92	89	103	96	92	89	95	91	88	94	90	88	92	89	87	86
7	101	94	89	86	100	93	89	85	92	88	85	91	87	85	90	87	84	83
8	98	91	86	83	97	90	86	82	89	85	82	88	84	82	87	84	82	80
9	95	88	83	80	94	87	83	80	86	82	79	85	82	79	85	81	79	78
10	93	85	80	77	92	85	80	77	84	80	77	83	79	77	82	79	77	76

POLAR GRAPH



Maximum Candela = 23694 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.)