



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-L23-9DW-DIM-UNV-LM-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.31
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 6/8/2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6PR-L23-9DW-DIM-UNV-LM-OF-WH
 [LUMINAIRE] Black formed aluminum housing, white reflector, frosted pl
 [MORE] astic optic, clear glass patterned lens enclosure
 [LAMP] One white LED
 [BALLAST] Philips XI025C070V054DSM5
 [OTHER] 25 C, 120.049 V, 0.189527 A, 22.6587 W, 0.995878 PF, 59.9703 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	2347
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.56
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	12954	12954	12954
55	8337	8337	8337
65	5762	5762	5762
75	4414	4414	4414
85	2590	2590	2590

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CANDELA TABULATION

	<u>0</u>
0.0	5398.248
0.5	5396.152
1.0	5388.816
1.5	5378.336
2.0	5363.664
2.5	5343.752
3.0	5318.600
3.5	5290.304
4.0	5258.864
4.5	5225.328
5.0	5187.600
5.5	5145.680
6.0	5100.616
6.5	5049.264
7.0	4994.768
7.5	4936.080
8.0	4871.104
8.5	4800.888
9.0	4725.432
9.5	4644.736
10.0	4559.848
10.5	4467.624
11.0	4370.160
11.5	4265.360
12.0	4157.416
12.5	4043.184
13.0	3922.664
13.5	3797.952
14.0	3668.000
14.5	3533.856
15.0	3396.568
15.5	3258.232
16.0	3116.752
16.5	2976.320
17.0	2835.888
17.5	2695.456
18.0	2558.168
18.5	2424.024
19.0	2293.024
19.5	2165.168
20.0	2041.504
20.5	1922.032
21.0	1807.800
21.5	1698.808
22.0	1592.960
22.5	1493.400
23.0	1401.176
23.5	1311.048
24.0	1227.208
24.5	1147.560
25.0	1074.200
25.5	1004.613
26.0	940.056
26.5	880.006

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CANDELA TABULATION - (Cont.)

27.0	823.833
27.5	772.062
28.0	723.330
28.5	678.580
29.0	637.184
29.5	598.618
30.0	562.881
30.5	529.450
31.0	498.534
31.5	470.028
32.0	443.409
32.5	418.781
33.0	395.725
33.5	374.346
34.0	354.434
34.5	335.884
35.0	318.802
35.5	302.872
36.0	287.990
36.5	274.157
37.0	261.371
37.5	249.529
38.0	238.525
38.5	228.359
39.0	218.718
39.5	209.810
40.0	201.426
40.5	193.670
41.0	186.230
41.5	179.418
42.0	172.920
42.5	166.737
43.0	160.973
43.5	155.418
44.0	150.074
44.5	145.148
45.0	140.327
45.5	135.821
46.0	131.419
46.5	127.227
47.0	123.140
47.5	119.158
48.0	115.385
48.5	111.717
49.0	108.154
49.5	104.695
50.0	101.446
50.5	98.198
51.0	95.054
51.5	92.014
52.0	89.080
52.5	86.250
53.0	83.526
53.5	80.801
54.0	78.181
54.5	75.666

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CANDELA TABULATION - (Cont.)

55.0	73.255
55.5	70.845
56.0	68.539
56.5	66.338
57.0	64.138
57.5	62.042
58.0	59.946
58.5	57.954
59.0	56.068
59.5	54.182
60.0	52.400
60.5	50.618
61.0	48.942
61.5	47.370
62.0	45.798
62.5	44.226
63.0	42.758
63.5	41.291
64.0	39.929
64.5	38.566
65.0	37.309
65.5	36.051
66.0	34.794
66.5	33.641
67.0	32.383
67.5	31.335
68.0	30.182
68.5	29.134
69.0	28.086
69.5	27.038
70.0	26.095
70.5	25.152
71.0	24.209
71.5	23.266
72.0	22.427
72.5	21.589
73.0	20.750
73.5	19.912
74.0	19.074
74.5	18.235
75.0	17.502
75.5	16.663
76.0	15.930
76.5	15.196
77.0	14.462
77.5	13.729
78.0	12.995
78.5	12.262
79.0	11.528
79.5	10.794
80.0	10.061
80.5	9.327
81.0	8.594
81.5	7.965
82.0	7.231
82.5	6.498

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CANDELA TABULATION - (Cont.)

83.0	5.869
83.5	5.240
84.0	4.611
84.5	3.982
85.0	3.458
85.5	2.934
86.0	2.410
86.5	1.991
87.0	1.572
87.5	1.153
88.0	0.943
88.5	0.629
89.0	0.524
89.5	0.314
90.0	0.210
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
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	1388.7	N.A.	59.20
0-30	1900.76	N.A.	81.00
0-40	2109.56	N.A.	89.90
0-60	2286.3	N.A.	97.40
0-80	2342.42	N.A.	99.80
0-90	2346.79	N.A.	100.00
10-90	1871.16	N.A.	79.70
20-40	720.86	N.A.	30.70
20-50	831.25	N.A.	35.40
40-70	214.21	N.A.	9.10
60-80	56.13	N.A.	2.40
70-80	18.65	N.A.	0.80
80-90	4.37	N.A.	0.20
90-110	0.01	N.A.	0.00
90-120	0.01	N.A.	0.00
90-130	0.01	N.A.	0.00
90-150	0.01	N.A.	0.00
90-180	0.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2346.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	475.64
10-20	913.07
20-30	512.05
30-40	208.81
40-50	110.39
50-60	66.35
60-70	37.48
70-80	18.65
80-90	4.37
90-100	0.01
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

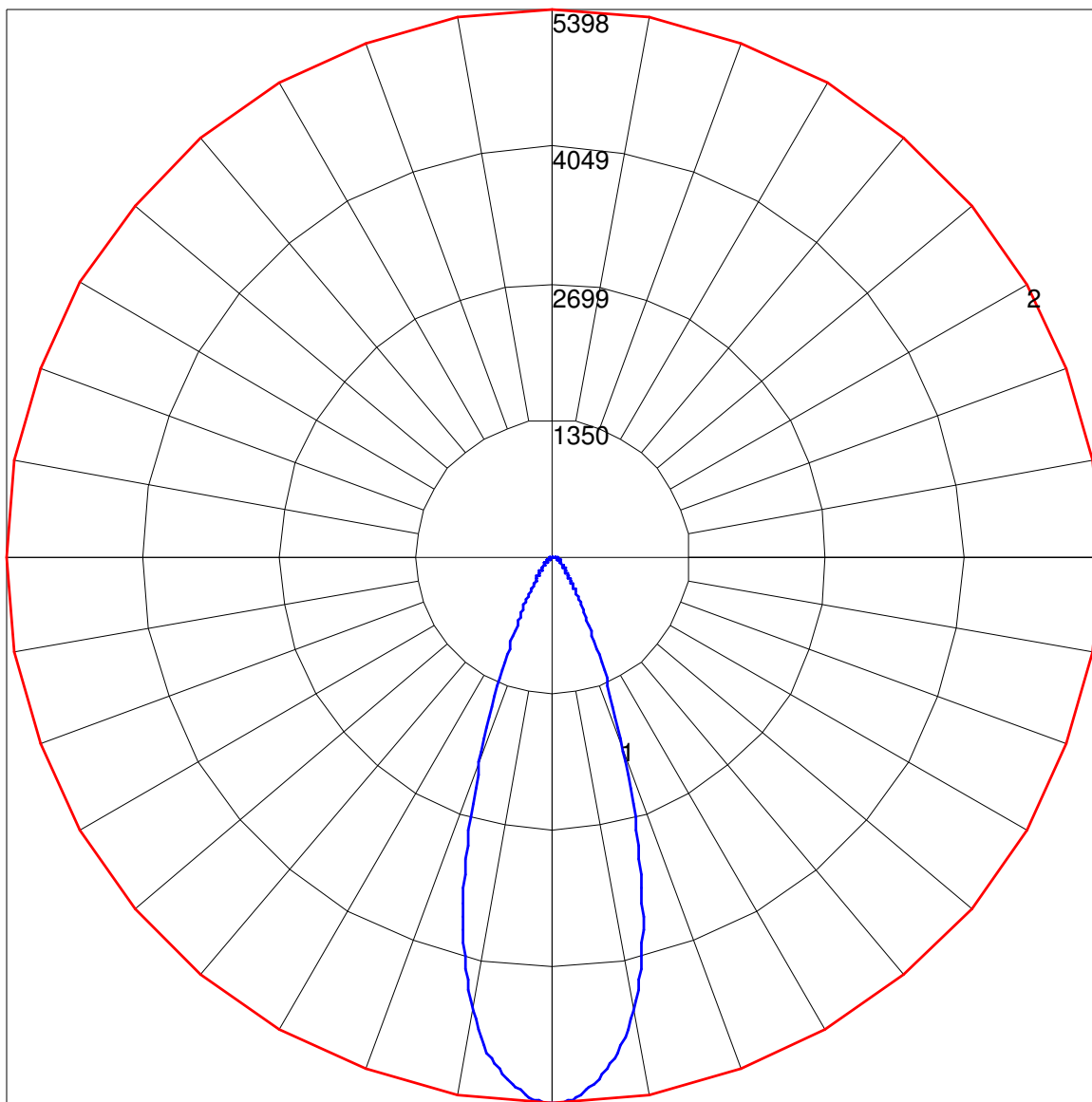
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	125	125	125	125	122	122	122	122	116	116	116	112	112	112	107	107	107	105
1	119	116	114	112	117	114	112	110	110	108	107	106	105	103	103	101	100	99
2	114	109	105	102	112	107	104	101	104	101	98	101	98	96	98	96	94	93
3	109	103	98	94	107	101	97	93	98	95	92	96	93	90	94	91	89	87
4	104	97	92	88	102	96	91	87	94	89	86	91	88	85	90	87	84	83
5	100	92	86	82	98	91	86	82	89	85	81	87	84	80	86	82	80	78
6	96	87	82	78	94	87	81	77	85	80	77	84	80	76	82	79	76	75
7	92	83	78	74	91	83	77	74	81	77	73	80	76	73	79	75	72	71
8	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68
9	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65
10	82	73	68	64	81	73	68	64	72	67	64	71	67	64	70	67	64	63

POLAR GRAPH



Maximum Candela = 5398.248 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.)