



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.29

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 6/8/2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 6PR-L23-9DW-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] 25 C, 119.956 V, 0.190022 A, 22.7 W, 0.995864 PF, 59.9698 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	2314
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.26
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	53770	53770	53770
55	26548	26548	26548
65	17983	17983	17983
75	13374	13374	13374
85	9261	9261	9261

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CANDELA TABULATION

	<u>0</u>
0.0	1225.112
0.5	1224.064
1.0	1223.016
1.5	1221.968
2.0	1219.872
2.5	1217.776
3.0	1214.632
3.5	1212.536
4.0	1209.392
4.5	1206.248
5.0	1203.104
5.5	1199.960
6.0	1196.816
6.5	1193.672
7.0	1190.528
7.5	1186.336
8.0	1183.192
8.5	1180.048
9.0	1175.856
9.5	1171.664
10.0	1168.520
10.5	1164.328
11.0	1160.136
11.5	1156.992
12.0	1152.800
12.5	1148.608
13.0	1144.416
13.5	1140.224
14.0	1136.032
14.5	1131.840
15.0	1126.600
15.5	1122.408
16.0	1118.216
16.5	1114.024
17.0	1108.784
17.5	1104.592
18.0	1101.448
18.5	1097.256
19.0	1093.064
19.5	1088.872
20.0	1084.680
20.5	1081.536
21.0	1077.344
21.5	1073.152
22.0	1067.912
22.5	1062.672
23.0	1058.480
23.5	1052.192
24.0	1047.266
24.5	1041.712
25.0	1036.053
25.5	1030.394
26.0	1024.734
26.5	1018.866

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CANDELA TABULATION - (Cont.)

27.0	1013.102
27.5	1007.338
28.0	1001.574
28.5	995.914
29.0	990.465
29.5	984.910
30.0	978.937
30.5	972.963
31.0	966.675
31.5	960.178
32.0	953.051
32.5	945.506
33.0	937.750
33.5	929.366
34.0	920.354
34.5	910.712
35.0	900.651
35.5	889.752
36.0	878.434
36.5	866.486
37.0	853.806
37.5	840.810
38.0	827.186
38.5	812.724
39.0	797.738
39.5	782.018
40.0	765.983
40.5	749.215
41.0	732.762
41.5	715.574
42.0	698.073
42.5	679.838
43.0	661.288
43.5	642.110
44.0	622.722
44.5	602.810
45.0	582.478
45.5	561.518
46.0	539.930
46.5	518.131
47.0	496.123
47.5	474.325
48.0	452.631
48.5	431.147
49.0	410.502
49.5	390.066
50.0	370.992
50.5	352.442
51.0	335.255
51.5	319.116
52.0	304.025
52.5	289.982
53.0	276.777
53.5	264.515
54.0	253.406
54.5	242.926

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CANDELA TABULATION - (Cont.)

55.0	233.285
55.5	224.377
56.0	216.098
56.5	208.342
57.0	200.797
57.5	193.775
58.0	187.173
58.5	180.780
59.0	174.911
59.5	169.252
60.0	163.593
60.5	158.248
61.0	153.008
61.5	147.978
62.0	143.052
62.5	138.336
63.0	133.725
63.5	129.218
64.0	124.817
64.5	120.625
65.0	116.433
65.5	112.450
66.0	108.468
66.5	104.590
67.0	100.818
67.5	97.254
68.0	93.586
68.5	90.233
69.0	86.774
69.5	83.526
70.0	80.277
70.5	77.238
71.0	74.303
71.5	71.369
72.0	68.539
72.5	65.919
73.0	63.194
73.5	60.574
74.0	58.059
74.5	55.544
75.0	53.029
75.5	50.723
76.0	48.313
76.5	46.112
77.0	43.806
77.5	41.606
78.0	39.405
78.5	37.309
79.0	35.213
79.5	33.117
80.0	31.126
80.5	29.134
81.0	27.143
81.5	25.152
82.0	23.266
82.5	21.379

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CANDELA TABULATION - (Cont.)

83.0	19.493
83.5	17.711
84.0	15.825
84.5	14.148
85.0	12.366
85.5	10.690
86.0	9.013
86.5	7.441
87.0	5.974
87.5	4.716
88.0	3.668
88.5	2.725
89.0	1.991
89.5	1.362
90.0	0.838
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	431.86	N.A.	18.70
0-30	909.30	N.A.	39.30
0-40	1466.24	N.A.	63.40
0-60	2125.89	N.A.	91.90
0-80	2299.59	N.A.	99.40
0-90	2314.23	N.A.	100.00
10-90	2200.49	N.A.	95.10
20-40	1034.38	N.A.	44.70
20-50	1476.3	N.A.	63.80
40-70	776.48	N.A.	33.60
60-80	173.70	N.A.	7.50
70-80	56.88	N.A.	2.50
80-90	14.64	N.A.	0.60
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	2314.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.74
10-20	318.12
20-30	477.44
30-40	556.94
40-50	441.93
50-60	217.73
60-70	116.82
70-80	56.88
80-90	14.64
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

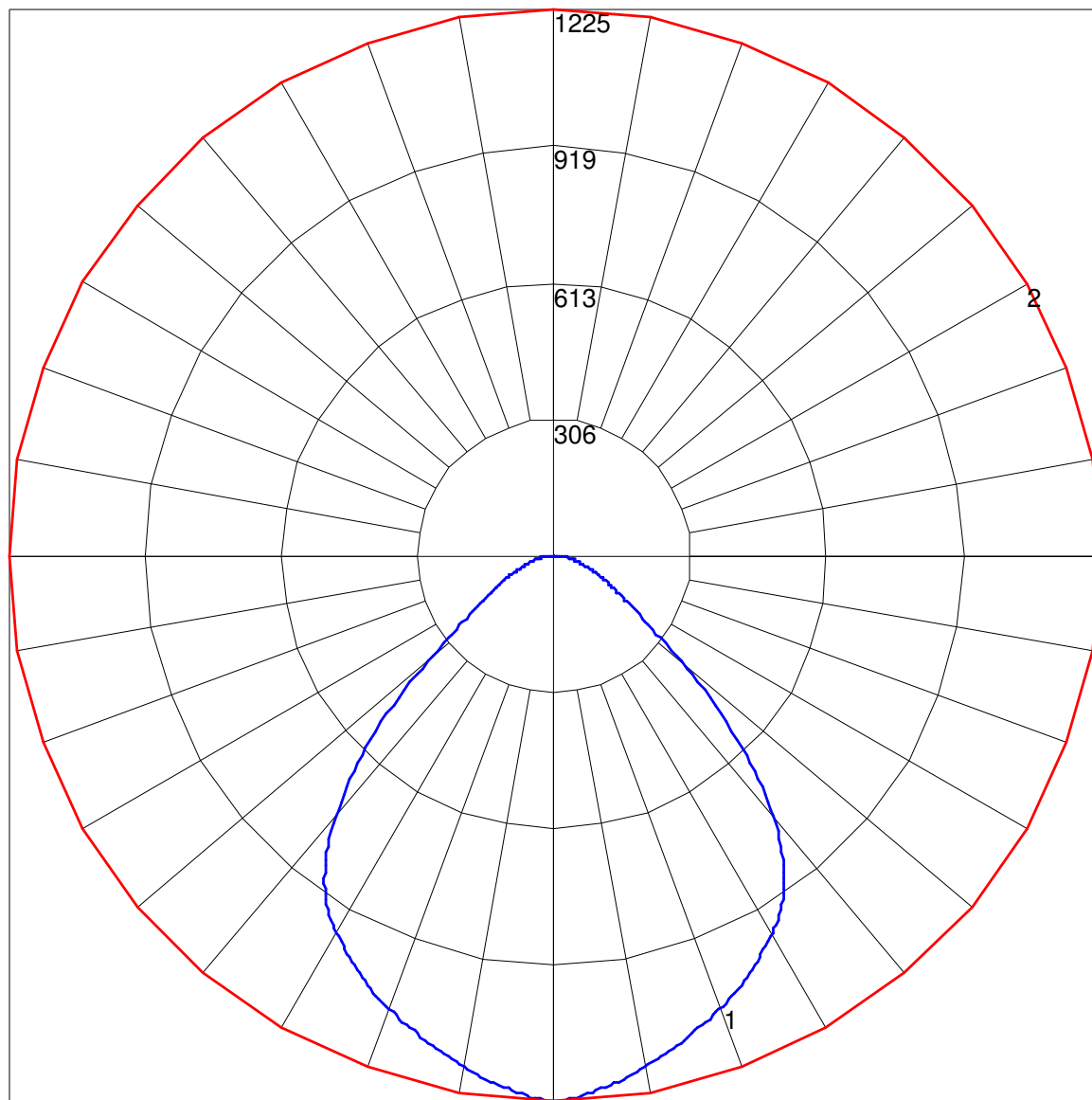
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	125	125	125	125	122	122	122	122	116	116	116	112	112	112	107	107	107	105
1	116	113	109	106	114	110	107	104	106	103	101	102	100	98	98	96	95	93
2	108	101	95	90	106	99	94	89	96	91	87	92	89	85	89	86	84	82
3	100	91	84	78	98	89	83	78	87	81	76	84	79	75	81	77	74	72
4	93	82	75	69	91	81	74	68	79	72	67	76	71	66	74	69	66	64
5	86	75	67	61	84	74	66	60	72	65	60	70	64	59	68	63	59	57
6	81	68	60	54	79	67	60	54	66	59	54	64	58	53	62	57	53	51
7	75	63	54	49	74	62	54	49	60	53	48	59	53	48	58	52	48	46
8	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	48	43	42
9	66	53	45	40	65	53	45	40	52	45	40	50	44	40	49	44	40	38
10	62	49	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35

POLAR GRAPH



Maximum Candela = 1225.112 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.)