



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.32

[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-LN-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, clear plas

[MORE] tic optic, clear glass patterned lens enclosure

[LAMP] One white LED

[BALLAST] Philips XI025C070V054DSM5

[OTHER] 24.8 C, 120.053 V, 0.189548 A, 22.6621 W, 0.995885 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	2369
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.44
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	10351	10351	10351
55	7824	7824	7824
65	5924	5924	5924
75	4255	4255	4255
85	2590	2590	2590

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CANDELA TABULATION

	<u>0</u>
0.0	8748.704
0.5	8740.320
1.0	8715.168
1.5	8671.152
2.0	8609.320
2.5	8529.672
3.0	8433.256
3.5	8321.120
4.0	8196.408
4.5	8059.120
5.0	7909.256
5.5	7745.768
6.0	7567.608
6.5	7376.872
7.0	7176.704
7.5	6966.056
8.0	6747.024
8.5	6520.656
9.0	6286.952
9.5	6048.008
10.0	5803.824
10.5	5557.544
11.0	5306.024
11.5	5055.552
12.0	4807.176
12.5	4559.848
13.0	4316.712
13.5	4074.624
14.0	3838.824
14.5	3610.360
15.0	3390.280
15.5	3177.536
16.0	2975.272
16.5	2781.392
17.0	2597.992
17.5	2422.976
18.0	2258.440
18.5	2104.384
19.0	1959.760
19.5	1824.568
20.0	1697.760
20.5	1578.288
21.0	1466.152
21.5	1363.448
22.0	1267.032
22.5	1176.904
23.0	1090.968
23.5	1012.368
24.0	938.694
24.5	870.783
25.0	807.903
25.5	749.425
26.0	695.662
26.5	646.197

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CANDELA TABULATION - (Cont.)

27.0	600.399
27.5	558.165
28.0	519.389
28.5	484.071
29.0	451.898
29.5	422.449
30.0	395.096
30.5	370.154
31.0	347.412
31.5	326.662
32.0	307.588
32.5	290.296
33.0	274.262
33.5	259.590
34.0	246.175
34.5	233.809
35.0	222.595
35.5	212.220
36.0	202.683
36.5	193.880
37.0	185.810
37.5	178.370
38.0	171.453
38.5	165.165
39.0	159.296
39.5	153.742
40.0	148.711
40.5	143.995
41.0	139.489
41.5	135.402
42.0	131.524
42.5	127.856
43.0	124.398
43.5	121.044
44.0	117.900
44.5	114.966
45.0	112.136
45.5	109.411
46.0	106.791
46.5	104.276
47.0	101.866
47.5	99.455
48.0	97.150
48.5	94.844
49.0	92.643
49.5	90.442
50.0	88.346
50.5	86.250
51.0	84.154
51.5	82.058
52.0	80.172
52.5	78.181
53.0	76.190
53.5	74.303
54.0	72.417
54.5	70.635

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CANDELA TABULATION - (Cont.)

55.0	68.749
55.5	66.967
56.0	65.290
56.5	63.614
57.0	61.937
57.5	60.260
58.0	58.688
58.5	57.116
59.0	55.544
59.5	54.077
60.0	52.505
60.5	51.038
61.0	49.570
61.5	48.103
62.0	46.636
62.5	45.274
63.0	43.911
63.5	42.444
64.0	41.082
64.5	39.719
65.0	38.357
65.5	36.994
66.0	35.737
66.5	34.374
67.0	33.117
67.5	31.964
68.0	30.706
68.5	29.554
69.0	28.401
69.5	27.353
70.0	26.200
70.5	25.257
71.0	24.209
71.5	23.161
72.0	22.113
72.5	21.274
73.0	20.331
73.5	19.388
74.0	18.550
74.5	17.711
75.0	16.873
75.5	16.034
76.0	15.301
76.5	14.462
77.0	13.729
77.5	12.995
78.0	12.262
78.5	11.633
79.0	10.899
79.5	10.270
80.0	9.537
80.5	8.908
81.0	8.279
81.5	7.650
82.0	7.022
82.5	6.393

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CANDELA TABULATION - (Cont.)

83.0	5.764
83.5	5.135
84.0	4.506
84.5	3.878
85.0	3.458
85.5	2.830
86.0	2.306
86.5	1.886
87.0	1.467
87.5	1.258
88.0	1.048
88.5	0.838
89.0	0.629
89.5	0.524
90.0	0.419
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	1619.33	N.A.	68.40
0-30	2011.76	N.A.	84.90
0-40	2158.62	N.A.	91.10
0-60	2308.3	N.A.	97.40
0-80	2364.66	N.A.	99.80
0-90	2368.94	N.A.	100.00
10-90	1682.57	N.A.	71.00
20-40	539.29	N.A.	22.80
20-50	627.08	N.A.	26.50
40-70	187.90	N.A.	7.90
60-80	56.36	N.A.	2.40
70-80	18.14	N.A.	0.80
80-90	4.28	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	2368.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	686.37
10-20	932.95
20-30	392.43
30-40	146.86
40-50	87.79
50-60	61.89
60-70	38.22
70-80	18.14
80-90	4.28
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

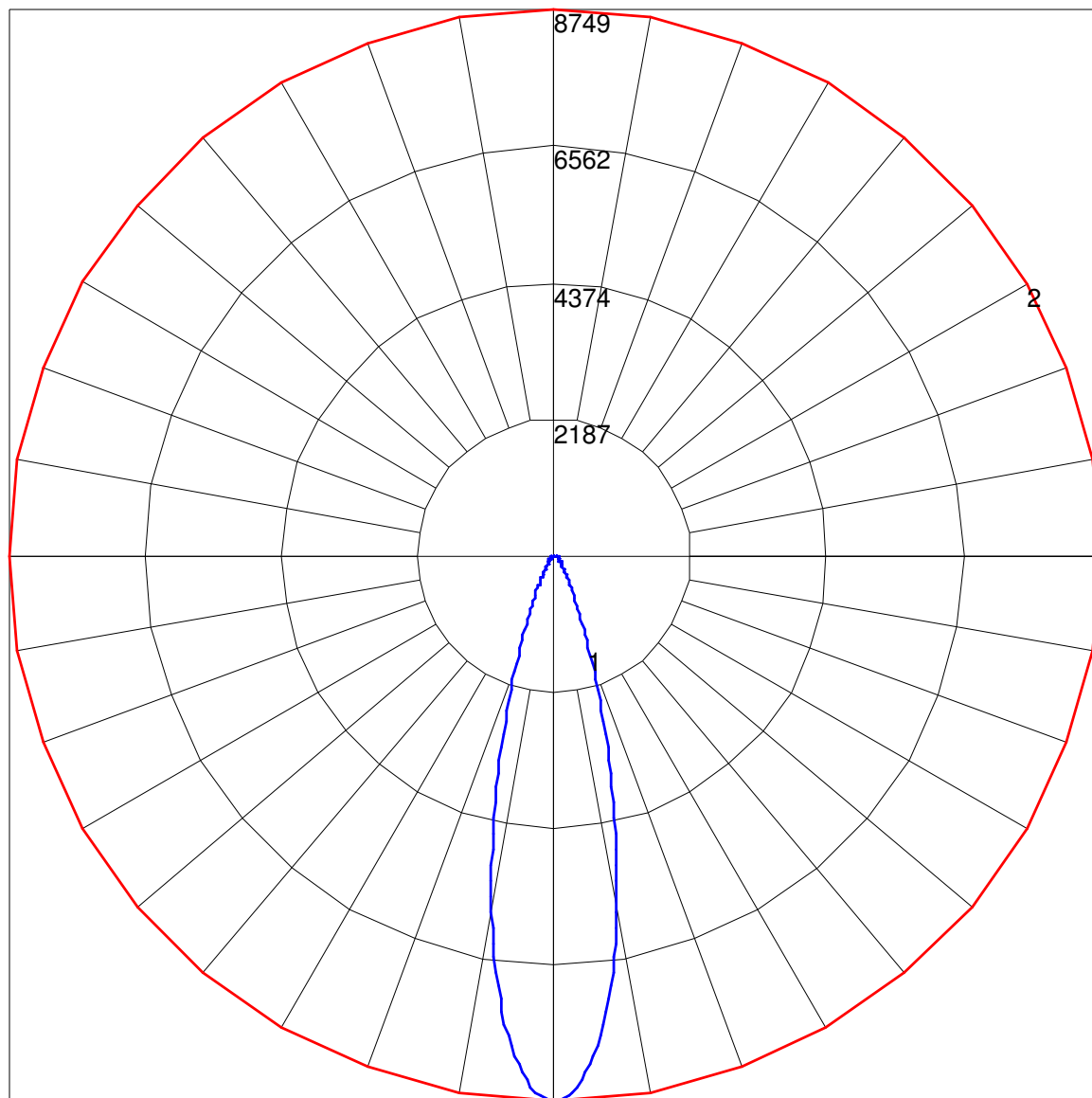
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	120	117	115	113	117	115	113	111	111	109	107	107	105	104	103	102	101	99
2	115	110	107	103	113	108	105	102	105	102	100	102	100	98	99	97	96	94
3	110	104	100	96	108	103	99	96	100	97	94	98	95	93	96	93	91	90
4	106	99	94	91	104	98	94	90	96	92	89	94	91	88	92	89	87	86
5	102	95	90	86	101	94	89	86	92	88	85	90	87	84	89	86	83	82
6	98	91	86	82	97	90	85	82	89	84	81	87	83	81	86	83	80	79
7	95	87	82	78	94	87	82	78	85	81	78	84	80	78	83	80	77	76
8	92	84	79	75	91	83	79	75	82	78	75	81	78	75	81	77	74	73
9	89	81	76	73	88	81	76	73	80	75	72	79	75	72	78	75	72	71
10	86	78	73	70	86	78	73	70	77	73	70	76	73	70	76	72	70	69

POLAR GRAPH



Maximum Candela = 8748.704 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.)