



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-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.

[ISSUEDATE] 12/17/2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 6PR-TL-L8-9DW-DIM-UNV-LW-OF-WH

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

[MORE] s patterned lens enclosure

[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	806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	14
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	18729	18729	18729
55	9247	9247	9247
65	6264	6264	6264
75	4658	4658	4658
85	3226	3226	3226

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-DIM-UNV-LW-OF-WH_.IES

CANDELA TABULATION

	<u>0</u>
0.0	426.727
0.5	426.362
1.0	425.997
1.5	425.632
2.0	424.902
2.5	424.172
3.0	423.077
3.5	422.347
4.0	421.252
4.5	420.157
5.0	419.062
5.5	417.966
6.0	416.871
6.5	415.776
7.0	414.681
7.5	413.221
8.0	412.126
8.5	411.031
9.0	409.571
9.5	408.110
10.0	407.015
10.5	405.555
11.0	404.095
11.5	403.000
12.0	401.540
12.5	400.080
13.0	398.620
13.5	397.159
14.0	395.699
14.5	394.239
15.0	392.414
15.5	390.954
16.0	389.494
16.5	388.033
17.0	386.208
17.5	384.748
18.0	383.653
18.5	382.193
19.0	380.733
19.5	379.273
20.0	377.812
20.5	376.717
21.0	375.257
21.5	373.797
22.0	371.972
22.5	370.147
23.0	368.687
23.5	366.496
24.0	364.781
24.5	362.846
25.0	360.875
25.5	358.904
26.0	356.932
26.5	354.888

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-DIM-UNV-LW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	352.880
27.5	350.873
28.0	348.865
28.5	346.894
29.0	344.996
29.5	343.061
30.0	340.980
30.5	338.900
31.0	336.709
31.5	334.446
32.0	331.964
32.5	329.336
33.0	326.634
33.5	323.714
34.0	320.575
34.5	317.216
35.0	313.712
35.5	309.916
36.0	305.973
36.5	301.812
37.0	297.395
37.5	292.869
38.0	288.123
38.5	283.086
39.0	277.866
39.5	272.390
40.0	266.805
40.5	260.964
41.0	255.233
41.5	249.247
42.0	243.151
42.5	236.799
43.0	230.338
43.5	223.658
44.0	216.905
44.5	209.969
45.0	202.887
45.5	195.586
46.0	188.067
46.5	180.474
47.0	172.808
47.5	165.215
48.0	157.659
48.5	150.176
49.0	142.985
49.5	135.866
50.0	129.223
50.5	122.762
51.0	116.775
51.5	111.154
52.0	105.897
52.5	101.006
53.0	96.406
53.5	92.135
54.0	88.266
54.5	84.615

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-DIM-UNV-LW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	81.257
55.5	78.154
56.0	75.270
56.5	72.569
57.0	69.941
57.5	67.495
58.0	65.195
58.5	62.969
59.0	60.925
59.5	58.953
60.0	56.982
60.5	55.120
61.0	53.295
61.5	51.543
62.0	49.827
62.5	48.185
63.0	46.579
63.5	45.009
64.0	43.476
64.5	42.016
65.0	40.556
65.5	39.168
66.0	37.781
66.5	36.431
67.0	35.116
67.5	33.875
68.0	32.598
68.5	31.430
69.0	30.225
69.5	29.093
70.0	27.962
70.5	26.903
71.0	25.881
71.5	24.859
72.0	23.873
72.5	22.961
73.0	22.012
73.5	21.099
74.0	20.223
74.5	19.347
75.0	18.471
75.5	17.668
76.0	16.828
76.5	16.062
77.0	15.259
77.5	14.492
78.0	13.725
78.5	12.995
79.0	12.265
79.5	11.535
80.0	10.842
80.5	10.148
81.0	9.454
81.5	8.761
82.0	8.104
82.5	7.447

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-DIM-UNV-LW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

83.0	6.790
83.5	6.169
84.0	5.512
84.5	4.928
85.0	4.307
85.5	3.723
86.0	3.139
86.5	2.592
87.0	2.081
87.5	1.643
88.0	1.278
88.5	0.949
89.0	0.694
89.5	0.475
90.0	0.292
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-DIM-UNV-LW-OF-WH_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-DIM-UNV-LW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	150.42	N.A.	18.70
0-30	316.72	N.A.	39.30
0-40	510.71	N.A.	63.40
0-60	740.48	N.A.	91.90
0-80	800.99	N.A.	99.40
0-90	806.09	N.A.	100.00
10-90	766.47	N.A.	95.10
20-40	360.29	N.A.	44.70
20-50	514.22	N.A.	63.80
40-70	270.46	N.A.	33.60
60-80	60.50	N.A.	7.50
70-80	19.81	N.A.	2.50
80-90	5.10	N.A.	0.60
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	806.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.62
10-20	110.81
20-30	166.30
30-40	193.99
40-50	153.93
50-60	75.84
60-70	40.69
70-80	19.81
80-90	5.10
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-DIM-UNV-LW-OF-WH_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	41	41	41	41	41	41	41	41	39	39	39	37	37	37	36	36	36	35
1	39	37	36	35	38	37	36	35	35	34	34	34	33	33	33	32	32	31
2	36	34	32	30	35	33	31	30	32	30	29	31	29	28	30	29	28	27
3	33	30	28	26	33	30	28	26	29	27	25	28	26	25	27	26	25	24
4	31	27	25	23	30	27	25	23	26	24	22	25	24	22	25	23	22	21
5	29	25	22	20	28	25	22	20	24	22	20	23	21	20	23	21	20	19
6	27	23	20	18	26	22	20	18	22	20	18	21	19	18	21	19	18	17
7	25	21	18	16	24	21	18	16	20	18	16	20	18	16	19	17	16	15
8	23	19	17	15	23	19	16	15	18	16	15	18	16	14	18	16	14	14
9	22	18	15	13	21	18	15	13	17	15	13	17	15	13	16	15	13	13
10	21	16	14	12	20	16	14	12	16	14	12	16	14	12	15	13	12	12

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L8-9DW-DIM-UNV-LW-OF-WH_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	20.2	21.6	20.6	21.9	22.2	20.2	21.6	20.6	21.9	22.2
	3H	21.3	22.5	21.7	22.8	23.2	21.3	22.5	21.7	22.8	23.2
	4H	21.7	22.8	22.1	23.2	23.5	21.7	22.8	22.1	23.2	23.5
	6H	21.9	23.0	22.3	23.4	23.8	21.9	23.0	22.3	23.4	23.8
	8H	22.0	23.0	22.4	23.4	23.8	22.0	23.0	22.4	23.4	23.8
	12H	22.1	23.0	22.5	23.4	23.8	22.1	23.0	22.5	23.4	23.8

UGR Viewed Endwise

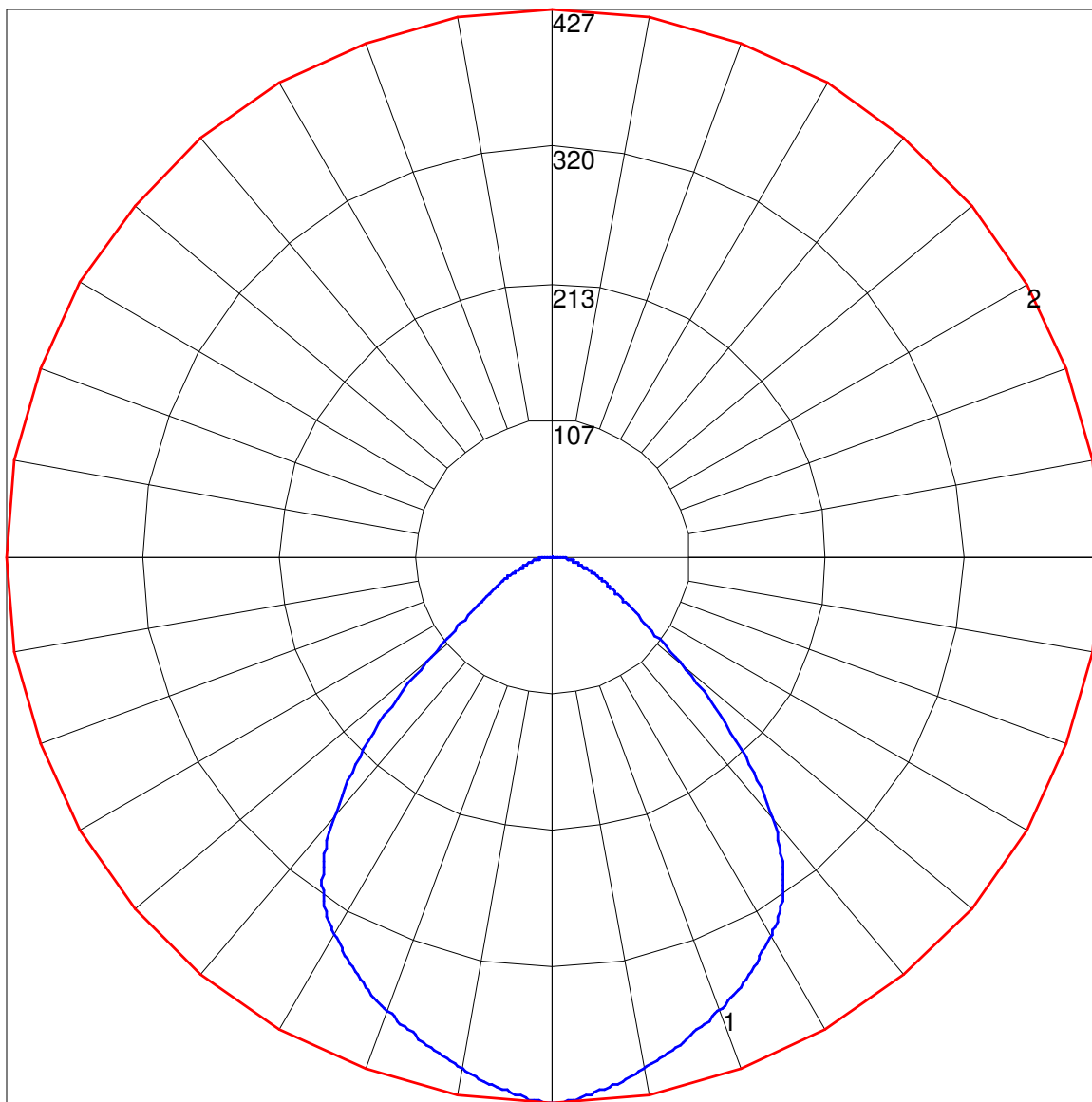
4H	2H	20.6	21.7	21.0	22.1	22.4	20.6	21.7	21.0	22.1	22.4
	3H	21.8	22.8	22.2	23.2	23.6	21.8	22.8	22.2	23.2	23.6
	4H	22.3	23.2	22.8	23.6	24.0	22.3	23.2	22.8	23.6	24.0
	6H	22.7	23.5	23.2	23.9	24.4	22.7	23.5	23.2	23.9	24.4
	8H	22.8	23.5	23.3	24.0	24.4	22.8	23.5	23.3	24.0	24.4
	12H	22.9	23.5	23.4	24.0	24.5	22.9	23.5	23.4	24.0	24.5

8H	4H	22.5	23.2	23.0	23.6	24.1	22.5	23.2	23.0	23.6	24.1
	6H	23.0	23.5	23.5	24.0	24.5	23.0	23.5	23.5	24.0	24.5
	8H	23.1	23.6	23.7	24.2	24.6	23.1	23.6	23.7	24.2	24.6
	12H	23.3	23.7	23.8	24.2	24.8	23.3	23.7	23.8	24.2	24.8

12H	4H	22.5	23.1	23.0	23.6	24.0	22.5	23.1	23.0	23.6	24.0
	6H	23.0	23.5	23.5	24.0	24.5	23.0	23.5	23.5	24.0	24.5
	8H	23.2	23.6	23.7	24.1	24.7	23.2	23.6	23.7	24.1	24.7

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 426.727 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.)