



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L60-935-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] 04/14/2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6PR-TL-L60-935-DIM-UNV-LW-OF-WH  
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glas  
 [MORE] s patterned lens enclosure  
 [LAMP] One white LED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	68.2
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	114511	114511	114511
55	56539	56539	56539
65	38298	38298	38298
75	28482	28482	28482
85	19724	19724	19724

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CANDELA TABULATION

	<u>0</u>
0.0	2609.068
0.5	2606.836
1.0	2604.604
1.5	2602.372
2.0	2597.908
2.5	2593.445
3.0	2586.749
3.5	2582.285
4.0	2575.589
4.5	2568.894
5.0	2562.198
5.5	2555.503
6.0	2548.807
6.5	2542.111
7.0	2535.416
7.5	2526.488
8.0	2519.792
8.5	2513.097
9.0	2504.169
9.5	2495.242
10.0	2488.546
10.5	2479.619
11.0	2470.691
11.5	2463.995
12.0	2455.068
12.5	2446.140
13.0	2437.213
13.5	2428.285
14.0	2419.358
14.5	2410.430
15.0	2399.271
15.5	2390.343
16.0	2381.416
16.5	2372.488
17.0	2361.329
17.5	2352.401
18.0	2345.706
18.5	2336.778
19.0	2327.851
19.5	2318.923
20.0	2309.996
20.5	2303.300
21.0	2294.373
21.5	2285.445
22.0	2274.286
22.5	2263.126
23.0	2254.199
23.5	2240.807
24.0	2230.318
24.5	2218.489
25.0	2206.437
25.5	2194.384
26.0	2182.332
26.5	2169.834

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**CANDELA TABULATION - (Cont.)**

27.0	2157.558
27.5	2145.283
28.0	2133.008
28.5	2120.956
29.0	2109.350
29.5	2097.521
30.0	2084.799
30.5	2072.077
31.0	2058.686
31.5	2044.848
32.0	2029.672
32.5	2013.602
33.0	1997.086
33.5	1979.231
34.0	1960.037
34.5	1939.504
35.0	1918.078
35.5	1894.866
36.0	1870.762
36.5	1845.318
37.0	1818.313
37.5	1790.637
38.0	1761.623
38.5	1730.823
39.0	1698.907
39.5	1665.429
40.0	1631.281
40.5	1595.571
41.0	1560.530
41.5	1523.928
42.0	1486.655
42.5	1447.821
43.0	1408.316
43.5	1367.473
44.0	1326.183
44.5	1283.777
45.0	1240.479
45.5	1195.841
46.0	1149.865
46.5	1103.441
47.0	1056.572
47.5	1010.149
48.0	963.949
48.5	918.195
49.0	874.227
49.5	830.706
50.0	790.086
50.5	750.581
51.0	713.978
51.5	679.607
52.0	647.468
52.5	617.561
53.0	589.439
53.5	563.326
54.0	539.669
54.5	517.350

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**CANDELA TABULATION - (Cont.)**

55.0	496.816
55.5	477.845
56.0	460.214
56.5	443.698
57.0	427.628
57.5	412.675
58.0	398.614
58.5	384.999
59.0	372.501
59.5	360.449
60.0	348.396
60.5	337.014
61.0	325.854
61.5	315.141
62.0	304.652
62.5	294.608
63.0	284.788
63.5	275.191
64.0	265.817
64.5	256.889
65.0	247.962
65.5	239.481
66.0	231.000
66.5	222.742
67.0	214.707
67.5	207.118
68.0	199.307
68.5	192.165
69.0	184.800
69.5	177.881
70.0	170.962
70.5	164.490
71.0	158.240
71.5	151.991
72.0	145.965
72.5	140.385
73.0	134.582
73.5	129.003
74.0	123.646
74.5	118.290
75.0	112.933
75.5	108.023
76.0	102.890
76.5	98.203
77.0	93.293
77.5	88.606
78.0	83.919
78.5	79.455
79.0	74.991
79.5	70.527
80.0	66.287
80.5	62.046
81.0	57.806
81.5	53.565
82.0	49.548
82.5	45.530

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CANDELA TABULATION - (Cont.)

83.0	41.513
83.5	37.719
84.0	33.701
84.5	30.130
85.0	26.336
85.5	22.765
86.0	19.194
86.5	15.846
87.0	12.722
87.5	10.043
88.0	7.812
88.5	5.803
89.0	4.241
89.5	2.901
90.0	1.786
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  
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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

IES INDOOR REPORT  
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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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6PR-TL-L60-935-DIM-UNV-LW-OF-WH\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	919.72	N.A.	18.70
0-30	1936.49	N.A.	39.30
0-40	3122.58	N.A.	63.40
0-60	4527.42	N.A.	91.90
0-80	4897.34	N.A.	99.40
0-90	4928.51	N.A.	100.00
10-90	4686.29	N.A.	95.10
20-40	2202.86	N.A.	44.70
20-50	3144.01	N.A.	63.80
40-70	1653.63	N.A.	33.60
60-80	369.92	N.A.	7.50
70-80	121.13	N.A.	2.50
80-90	31.18	N.A.	0.60
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4928.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	242.22
10-20	677.49
20-30	1016.78
30-40	1186.09
40-50	941.15
50-60	463.69
60-70	248.79
70-80	121.13
80-90	31.18
90-100	0.05
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

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## 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

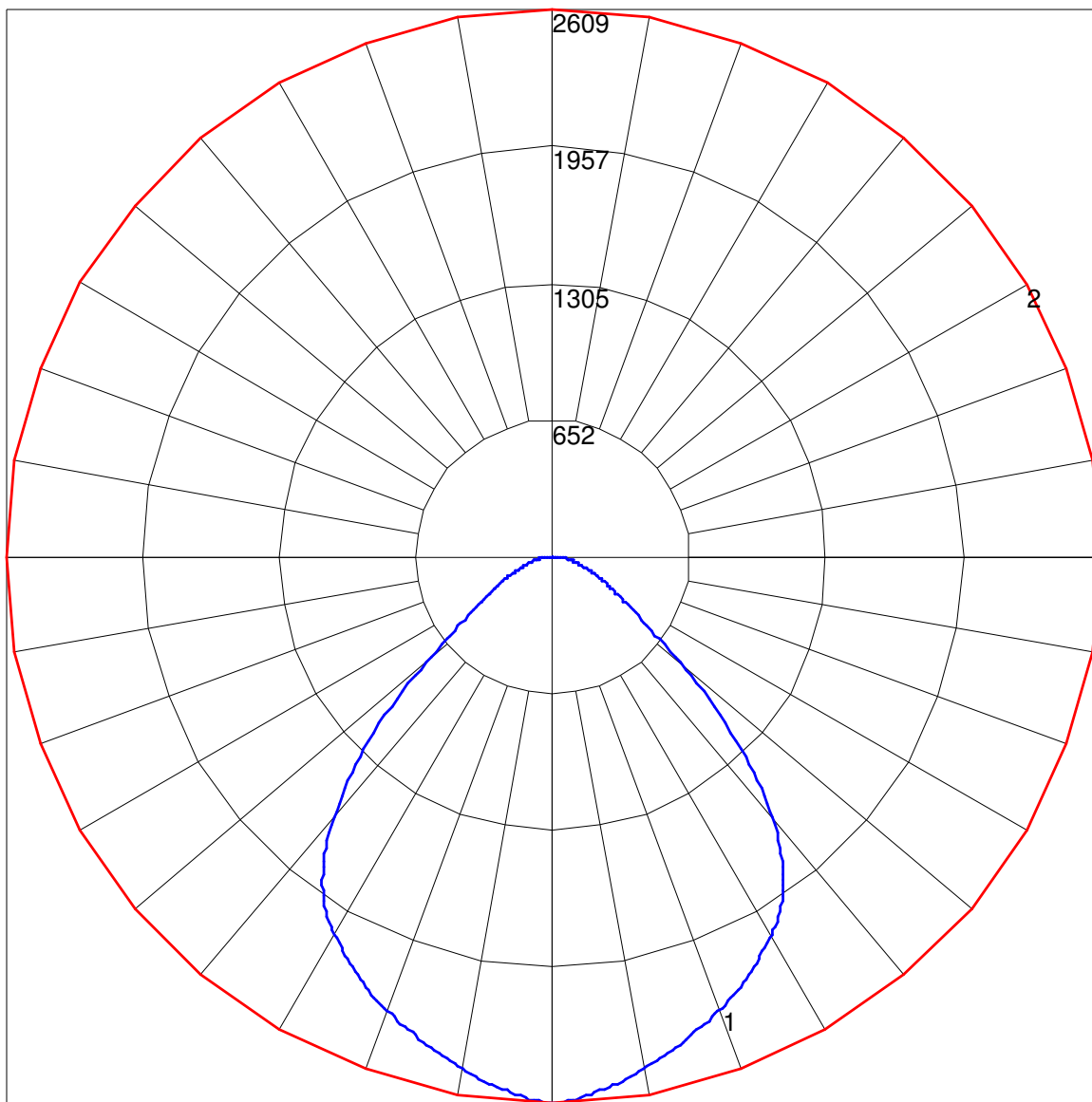
X=2H	Y=2H	22.9	24.3	23.3	24.6	24.9	22.9	24.3	23.3	24.6	24.9
	3H	24.0	25.2	24.4	25.5	25.9	24.0	25.2	24.4	25.5	25.9
	4H	24.4	25.5	24.8	25.9	26.2	24.4	25.5	24.8	25.9	26.2
	6H	24.6	25.7	25.0	26.1	26.5	24.6	25.7	25.0	26.1	26.5
	8H	24.7	25.7	25.1	26.1	26.5	24.7	25.7	25.1	26.1	26.5
	12H	24.8	25.7	25.2	26.1	26.5	24.8	25.7	25.2	26.1	26.5

### UGR Viewed Endwise

4H	2H	23.3	24.4	23.7	24.8	25.1	23.3	24.4	23.7	24.8	25.1
	3H	24.5	25.5	24.9	25.9	26.3	24.5	25.5	24.9	25.9	26.3
	4H	25.0	25.9	25.5	26.3	26.7	25.0	25.9	25.5	26.3	26.7
	6H	25.4	26.2	25.9	26.6	27.1	25.4	26.2	25.9	26.6	27.1
	8H	25.5	26.2	26.0	26.7	27.1	25.5	26.2	26.0	26.7	27.1
	12H	25.6	26.2	26.1	26.7	27.2	25.6	26.2	26.1	26.7	27.2
8H	4H	25.2	25.9	25.7	26.3	26.8	25.2	25.9	25.7	26.3	26.8
	6H	25.7	26.2	26.2	26.7	27.2	25.7	26.2	26.2	26.7	27.2
	8H	25.8	26.3	26.4	26.9	27.3	25.8	26.3	26.4	26.9	27.3
	12H	26.0	26.4	26.5	26.9	27.5	26.0	26.4	26.5	26.9	27.5
12H	4H	25.2	25.8	25.7	26.3	26.7	25.2	25.8	25.7	26.3	26.7
	6H	25.7	26.2	26.2	26.7	27.2	25.7	26.2	26.2	26.7	27.2
	8H	25.9	26.3	26.4	26.8	27.4	25.9	26.3	26.4	26.8	27.4

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 2609.068 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.)