



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L70-935-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-L70-935-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	5759
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	78.2
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	133798	133798	133798
55	66062	66062	66062
65	44749	44749	44749
75	33279	33279	33279
85	23046	23046	23046

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L70-935-DIM-UNV-LW-OF-WH_.IES

CANDELA TABULATION

	<u>0</u>
0.0	3048.505
0.5	3045.898
1.0	3043.290
1.5	3040.682
2.0	3035.466
2.5	3030.251
3.0	3022.427
3.5	3017.212
4.0	3009.389
4.5	3001.565
5.0	2993.742
5.5	2985.918
6.0	2978.095
6.5	2970.272
7.0	2962.448
7.5	2952.017
8.0	2944.194
8.5	2936.370
9.0	2925.939
9.5	2915.508
10.0	2907.685
10.5	2897.254
11.0	2886.822
11.5	2878.999
12.0	2868.568
12.5	2858.137
13.0	2847.706
13.5	2837.274
14.0	2826.843
14.5	2816.412
15.0	2803.373
15.5	2792.942
16.0	2782.511
16.5	2772.080
17.0	2759.041
17.5	2748.610
18.0	2740.786
18.5	2730.355
19.0	2719.924
19.5	2709.493
20.0	2699.062
20.5	2691.238
21.0	2680.807
21.5	2670.376
22.0	2657.337
22.5	2644.298
23.0	2633.867
23.5	2618.220
24.0	2605.964
24.5	2592.142
25.0	2578.060
25.5	2563.978
26.0	2549.896
26.5	2535.293

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L70-935-DIM-UNV-LW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

27.0	2520.950
27.5	2506.607
28.0	2492.264
28.5	2478.182
29.0	2464.621
29.5	2450.800
30.0	2435.936
30.5	2421.071
31.0	2405.425
31.5	2389.256
32.0	2371.523
32.5	2352.747
33.0	2333.450
33.5	2312.587
34.0	2290.160
34.5	2266.169
35.0	2241.134
35.5	2214.013
36.0	2185.849
36.5	2156.120
37.0	2124.566
37.5	2092.229
38.0	2058.328
38.5	2022.340
39.0	1985.049
39.5	1945.932
40.0	1906.033
40.5	1864.308
41.0	1823.366
41.5	1780.598
42.0	1737.048
42.5	1691.673
43.0	1645.515
43.5	1597.792
44.0	1549.548
44.5	1500.000
45.0	1449.409
45.5	1397.253
46.0	1343.533
46.5	1289.291
47.0	1234.527
47.5	1180.285
48.0	1126.304
48.5	1072.844
49.0	1021.471
49.5	970.619
50.0	923.157
50.5	876.999
51.0	834.232
51.5	794.072
52.0	756.520
52.5	721.575
53.0	688.717
53.5	658.206
54.0	630.563
54.5	604.485

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L70-935-DIM-UNV-LW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

55.0	580.494
55.5	558.328
56.0	537.726
56.5	518.428
57.0	499.652
57.5	482.180
58.0	465.751
58.5	449.844
59.0	435.240
59.5	421.158
60.0	407.076
60.5	393.776
61.0	380.737
61.5	368.220
62.0	355.963
62.5	344.228
63.0	332.754
63.5	321.540
64.0	310.588
64.5	300.157
65.0	289.725
65.5	279.816
66.0	269.906
66.5	260.257
67.0	250.869
67.5	242.003
68.0	232.876
68.5	224.531
69.0	215.925
69.5	207.841
70.0	199.757
70.5	192.194
71.0	184.892
71.5	177.590
72.0	170.549
72.5	164.030
73.0	157.250
73.5	150.730
74.0	144.472
74.5	138.213
75.0	131.954
75.5	126.217
76.0	120.219
76.5	114.743
77.0	109.006
77.5	103.529
78.0	98.053
78.5	92.837
79.0	87.622
79.5	82.406
80.0	77.451
80.5	72.497
81.0	67.542
81.5	62.587
82.0	57.893
82.5	53.199

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L70-935-DIM-UNV-LW-OF-WH_.IES

CANDELA TABULATION - (Cont.)

83.0	48.505
83.5	44.072
84.0	39.378
84.5	35.205
85.0	30.772
85.5	26.599
86.0	22.427
86.5	18.515
87.0	14.864
87.5	11.735
88.0	9.127
88.5	6.780
89.0	4.955
89.5	3.390
90.0	2.086
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-L70-935-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-L70-935-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-L70-935-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-L70-935-DIM-UNV-LW-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1074.62	N.A.	18.70
0-30	2262.65	N.A.	39.30
0-40	3648.51	N.A.	63.40
0-60	5289.96	N.A.	91.90
0-80	5722.18	N.A.	99.40
0-90	5758.61	N.A.	100.00
10-90	5475.59	N.A.	95.10
20-40	2573.89	N.A.	44.70
20-50	3673.55	N.A.	63.80
40-70	1932.15	N.A.	33.60
60-80	432.22	N.A.	7.50
70-80	141.53	N.A.	2.50
80-90	36.43	N.A.	0.60
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5758.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	283.02
10-20	791.60
20-30	1188.03
30-40	1385.86
40-50	1099.66
50-60	541.79
60-70	290.70
70-80	141.53
80-90	36.43
90-100	0.06
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-L70-935-DIM-UNV-LW-OF-WH_.IES

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

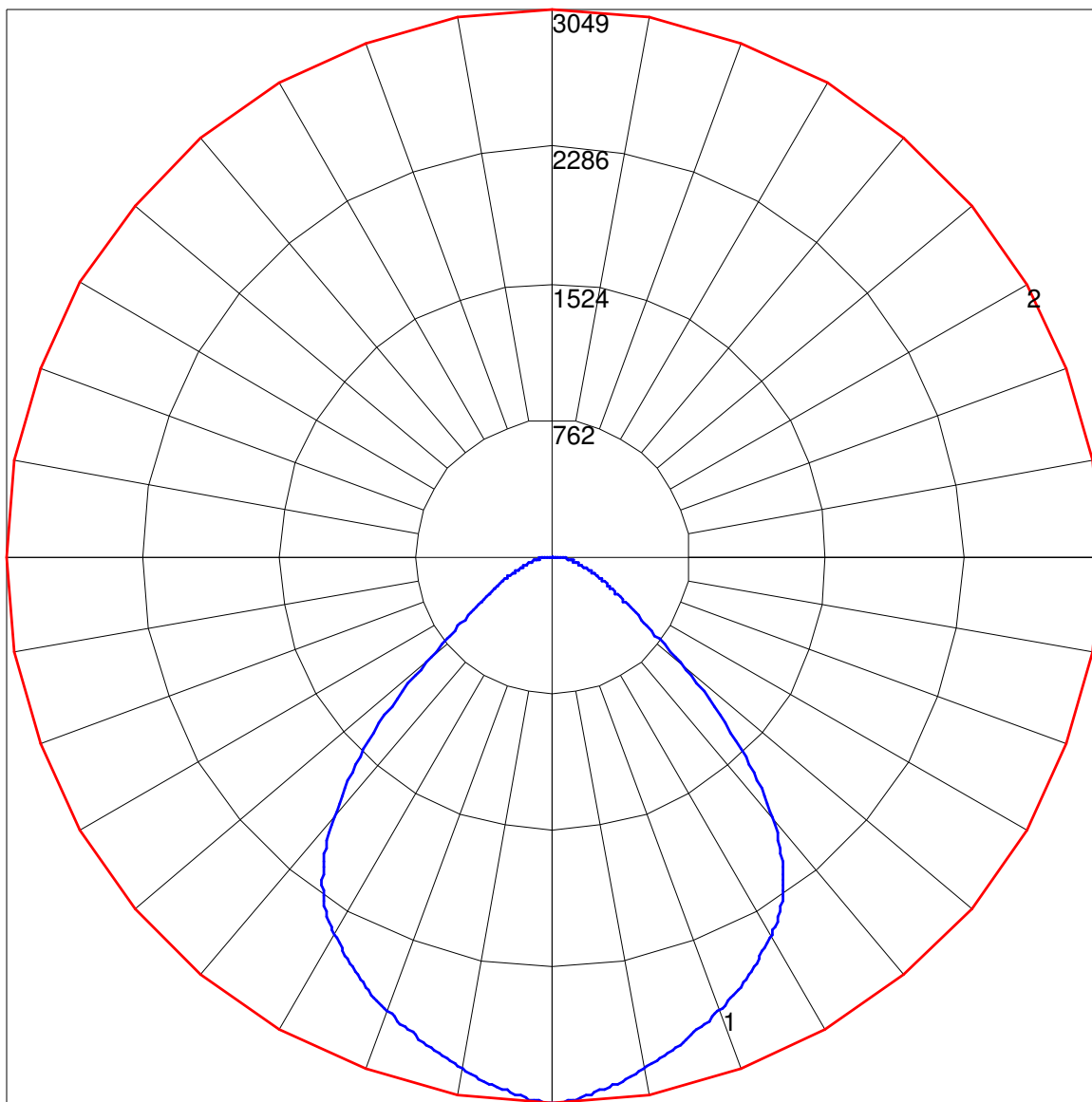
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L70-935-DIM-UNV-LW-OF-WH_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	23.4	24.8	23.8	25.1	25.4	23.4	24.8	23.8	25.1	25.4
	3H	24.5	25.7	24.9	26.0	26.4	24.5	25.7	24.9	26.0	26.4
	4H	24.9	26.0	25.3	26.4	26.7	24.9	26.0	25.3	26.4	26.7
	6H	25.1	26.2	25.5	26.6	27.0	25.1	26.2	25.5	26.6	27.0
	8H	25.2	26.2	25.6	26.6	27.0	25.2	26.2	25.6	26.6	27.0
	12H	25.3	26.2	25.7	26.6	27.0	25.3	26.2	25.7	26.6	27.0
4H	2H	23.8	24.9	24.2	25.3	25.6	23.8	24.9	24.2	25.3	25.6
	3H	25.0	26.0	25.5	26.4	26.8	25.0	26.0	25.5	26.4	26.8
	4H	25.5	26.4	26.0	26.8	27.2	25.5	26.4	26.0	26.8	27.2
	6H	25.9	26.7	26.4	27.1	27.6	25.9	26.7	26.4	27.1	27.6
	8H	26.0	26.7	26.5	27.2	27.6	26.0	26.7	26.5	27.2	27.6
	12H	26.1	26.7	26.6	27.2	27.7	26.1	26.7	26.6	27.2	27.7
8H	4H	25.7	26.4	26.2	26.8	27.3	25.7	26.4	26.2	26.8	27.3
	6H	26.2	26.7	26.7	27.2	27.7	26.2	26.7	26.7	27.2	27.7
	8H	26.3	26.8	26.9	27.4	27.8	26.3	26.8	26.9	27.4	27.8
	12H	26.5	26.9	27.0	27.4	28.0	26.5	26.9	27.0	27.4	28.0
12H	4H	25.7	26.3	26.2	26.8	27.2	25.7	26.3	26.2	26.8	27.2
	6H	26.2	26.7	26.7	27.2	27.7	26.2	26.7	26.7	27.2	27.7
	8H	26.4	26.8	26.9	27.3	27.9	26.4	26.8	26.9	27.3	27.9

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 3048.505 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.)