



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L10-935-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-L10-935-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	911
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	10.7
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	21169	21169	21169
55	10452	10452	10452
65	7080	7080	7080
75	5265	5265	5265
85	3647	3647	3647

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CANDELA TABULATION

	<u>0</u>
0.0	482.318
0.5	481.905
1.0	481.493
1.5	481.080
2.0	480.255
2.5	479.430
3.0	478.192
3.5	477.367
4.0	476.129
4.5	474.891
5.0	473.653
5.5	472.416
6.0	471.178
6.5	469.940
7.0	468.702
7.5	467.052
8.0	465.814
8.5	464.576
9.0	462.926
9.5	461.276
10.0	460.038
10.5	458.387
11.0	456.737
11.5	455.499
12.0	453.849
12.5	452.199
13.0	450.548
13.5	448.898
14.0	447.248
14.5	445.597
15.0	443.534
15.5	441.884
16.0	440.234
16.5	438.583
17.0	436.520
17.5	434.870
18.0	433.632
18.5	431.982
19.0	430.331
19.5	428.681
20.0	427.031
20.5	425.793
21.0	424.143
21.5	422.492
22.0	420.429
22.5	418.366
23.0	416.716
23.5	414.240
24.0	412.301
24.5	410.114
25.0	407.886
25.5	405.658
26.0	403.430
26.5	401.120

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**CANDELA TABULATION - (Cont.)**

27.0	398.851
27.5	396.582
28.0	394.312
28.5	392.084
29.0	389.939
29.5	387.752
30.0	385.400
30.5	383.049
31.0	380.573
31.5	378.015
32.0	375.209
32.5	372.239
33.0	369.186
33.5	365.885
34.0	362.337
34.5	358.541
35.0	354.580
35.5	350.289
36.0	345.833
36.5	341.129
37.0	336.137
37.5	331.021
38.0	325.657
38.5	319.964
39.0	314.064
39.5	307.875
40.0	301.562
40.5	294.961
41.0	288.483
41.5	281.716
42.0	274.826
42.5	267.647
43.0	260.344
43.5	252.794
44.0	245.161
44.5	237.322
45.0	229.318
45.5	221.066
46.0	212.566
46.5	203.984
47.0	195.320
47.5	186.738
48.0	178.198
48.5	169.740
49.0	161.612
49.5	153.566
50.0	146.057
50.5	138.754
51.0	131.988
51.5	125.634
52.0	119.692
52.5	114.164
53.0	108.965
53.5	104.138
54.0	99.764
54.5	95.638

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**CANDELA TABULATION - (Cont.)**

55.0	91.843
55.5	88.336
56.0	85.076
56.5	82.023
57.0	79.052
57.5	76.288
58.0	73.689
58.5	71.172
59.0	68.861
59.5	66.633
60.0	64.405
60.5	62.301
61.0	60.238
61.5	58.258
62.0	56.319
62.5	54.462
63.0	52.646
63.5	50.872
64.0	49.139
64.5	47.489
65.0	45.839
65.5	44.271
66.0	42.703
66.5	41.176
67.0	39.691
67.5	38.288
68.0	36.844
68.5	35.524
69.0	34.162
69.5	32.883
70.0	31.604
70.5	30.408
71.0	29.253
71.5	28.097
72.0	26.983
72.5	25.952
73.0	24.879
73.5	23.848
74.0	22.857
74.5	21.867
75.0	20.877
75.5	19.969
76.0	19.020
76.5	18.154
77.0	17.246
77.5	16.380
78.0	15.513
78.5	14.688
79.0	13.863
79.5	13.038
80.0	12.254
80.5	11.470
81.0	10.686
81.5	9.902
82.0	9.159
82.5	8.417

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CANDELA TABULATION - (Cont.)

83.0	7.674
83.5	6.973
84.0	6.230
84.5	5.570
85.0	4.869
85.5	4.208
86.0	3.548
86.5	2.929
87.0	2.352
87.5	1.857
88.0	1.444
88.5	1.073
89.0	0.784
89.5	0.536
90.0	0.330
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
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124.5	0.000
125.0	0.000
125.5	0.000
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128.5	0.000
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130.0	0.000
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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
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149.5	0.000
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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
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159.0	0.000
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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	170.02	N.A.	18.70
0-30	357.98	N.A.	39.30
0-40	577.25	N.A.	63.40
0-60	836.95	N.A.	91.90
0-80	905.33	N.A.	99.40
0-90	911.10	N.A.	100.00
10-90	866.32	N.A.	95.10
20-40	407.23	N.A.	44.70
20-50	581.21	N.A.	63.80
40-70	305.69	N.A.	33.60
60-80	68.38	N.A.	7.50
70-80	22.39	N.A.	2.50
80-90	5.76	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	911.10	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	44.78
10-20	125.24
20-30	187.96
30-40	219.26
40-50	173.98
50-60	85.72
60-70	45.99
70-80	22.39
80-90	5.76
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	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	99	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	83	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**

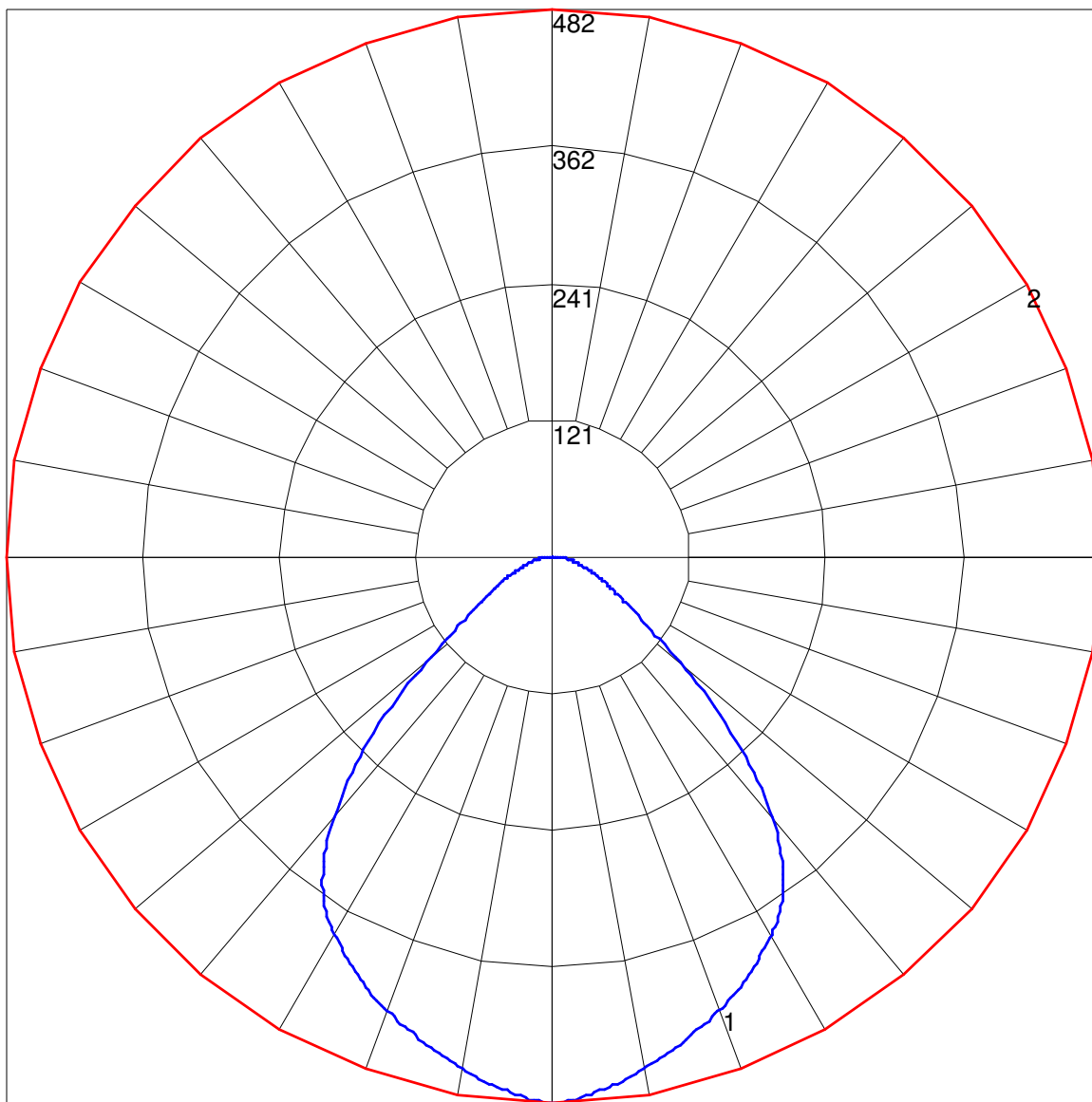
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.0	18.4	17.3	18.7	19.0	17.0	18.4	17.3	18.7	19.0
	3H	18.1	19.3	18.5	19.6	20.0	18.1	19.3	18.5	19.6	20.0
	4H	18.5	19.6	18.9	20.0	20.3	18.5	19.6	18.9	20.0	20.3
	6H	18.7	19.8	19.1	20.2	20.6	18.7	19.8	19.1	20.2	20.6
	8H	18.8	19.8	19.2	20.2	20.6	18.8	19.8	19.2	20.2	20.6
	12H	18.9	19.8	19.3	20.2	20.6	18.9	19.8	19.3	20.2	20.6
4H	2H	17.4	18.5	17.8	18.8	19.2	17.4	18.5	17.8	18.8	19.2
	3H	18.6	19.6	19.0	20.0	20.4	18.6	19.6	19.0	20.0	20.4
	4H	19.1	20.0	19.6	20.4	20.8	19.1	20.0	19.6	20.4	20.8
	6H	19.5	20.2	20.0	20.7	21.2	19.5	20.2	20.0	20.7	21.2
	8H	19.6	20.3	20.1	20.8	21.2	19.6	20.3	20.1	20.8	21.2
	12H	19.7	20.3	20.2	20.8	21.3	19.7	20.3	20.2	20.8	21.3
8H	4H	19.3	20.0	19.8	20.4	20.9	19.3	20.0	19.8	20.4	20.9
	6H	19.8	20.3	20.3	20.8	21.3	19.8	20.3	20.3	20.8	21.3
	8H	19.9	20.4	20.5	21.0	21.4	19.9	20.4	20.5	21.0	21.4
	12H	20.1	20.5	20.6	21.0	21.6	20.1	20.5	20.6	21.0	21.6
12H	4H	19.3	19.9	19.8	20.4	20.8	19.3	19.9	19.8	20.4	20.8
	6H	19.8	20.3	20.3	20.8	21.3	19.8	20.3	20.3	20.8	21.3
	8H	20.0	20.4	20.5	20.9	21.5	20.0	20.4	20.5	20.9	21.5

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 482.318 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.)