



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PR-TL-L60-835-DIM-LW-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.29
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 6/8/2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6PR-TL-L60-835-DIM-LW-OF-WH
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glass
 [MORE] s patterned lens enclosure
 [LAMP] One white LED
 [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	6010
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	139647	139647	139647
55	68950	68950	68950
65	46705	46705	46705
75	34734	34734	34734
85	24054	24054	24054

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CANDELA TABULATION

	<u>0</u>
0.0	3181.784
0.5	3179.063
1.0	3176.341
1.5	3173.619
2.0	3168.175
2.5	3162.732
3.0	3154.566
3.5	3149.123
4.0	3140.957
4.5	3132.792
5.0	3124.627
5.5	3116.461
6.0	3108.296
6.5	3100.130
7.0	3091.965
7.5	3081.078
8.0	3072.912
8.5	3064.747
9.0	3053.860
9.5	3042.972
10.0	3034.807
10.5	3023.920
11.0	3013.033
11.5	3004.867
12.0	2993.980
12.5	2983.093
13.0	2972.206
13.5	2961.318
14.0	2950.431
14.5	2939.544
15.0	2925.935
15.5	2915.048
16.0	2904.161
16.5	2893.273
17.0	2879.664
17.5	2868.777
18.0	2860.612
18.5	2849.725
19.0	2838.837
19.5	2827.950
20.0	2817.063
20.5	2808.898
21.0	2798.010
21.5	2787.123
22.0	2773.514
22.5	2759.905
23.0	2749.018
23.5	2732.687
24.0	2719.895
24.5	2705.469
25.0	2690.772
25.5	2676.074
26.0	2661.376
26.5	2646.134

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CANDELA TABULATION - (Cont.)

27.0	2631.164
27.5	2616.194
28.0	2601.224
28.5	2586.527
29.0	2572.373
29.5	2557.948
30.0	2542.433
30.5	2526.919
31.0	2510.588
31.5	2493.713
32.0	2475.205
32.5	2455.608
33.0	2435.467
33.5	2413.692
34.0	2390.285
34.5	2365.244
35.0	2339.115
35.5	2310.808
36.0	2281.413
36.5	2250.384
37.0	2217.451
37.5	2183.700
38.0	2148.317
38.5	2110.756
39.0	2071.834
39.5	2031.007
40.0	1989.364
40.5	1945.815
41.0	1903.083
41.5	1858.445
42.0	1812.991
42.5	1765.632
43.0	1717.456
43.5	1667.647
44.0	1617.294
44.5	1565.579
45.0	1512.776
45.5	1458.340
46.0	1402.271
46.5	1345.658
47.0	1288.500
47.5	1231.887
48.0	1175.545
48.5	1119.749
49.0	1066.129
49.5	1013.054
50.0	963.517
50.5	915.341
51.0	870.704
51.5	828.788
52.0	789.594
52.5	753.122
53.0	718.827
53.5	686.982
54.0	658.131
54.5	630.913

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CANDELA TABULATION - (Cont.)

55.0	605.873
55.5	582.737
56.0	561.235
56.5	541.094
57.0	521.497
57.5	503.261
58.0	486.113
58.5	469.511
59.0	454.268
59.5	439.571
60.0	424.873
60.5	410.992
61.0	397.383
61.5	384.318
62.0	371.526
62.5	359.278
63.0	347.302
63.5	335.598
64.0	324.166
64.5	313.279
65.0	302.392
65.5	292.049
66.0	281.706
66.5	271.636
67.0	261.837
67.5	252.583
68.0	243.057
68.5	234.347
69.0	225.365
69.5	216.927
70.0	208.490
70.5	200.597
71.0	192.976
71.5	185.355
72.0	178.006
72.5	171.201
73.0	164.125
73.5	157.320
74.0	150.788
74.5	144.255
75.0	137.723
75.5	131.735
76.0	125.475
76.5	119.759
77.0	113.771
77.5	108.055
78.0	102.340
78.5	96.896
79.0	91.452
79.5	86.009
80.0	80.837
80.5	75.666
81.0	70.495
81.5	65.323
82.0	60.424
82.5	55.525

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PR-TL-L60-835-DIM-LW-OF-WH.IES

CANDELA TABULATION - (Cont.)

83.0	50.625
83.5	45.998
84.0	41.099
84.5	36.744
85.0	32.117
85.5	27.762
86.0	23.407
86.5	19.325
87.0	15.514
87.5	12.248
88.0	9.526
88.5	7.077
89.0	5.171
89.5	3.538
90.0	2.177
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
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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
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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-L60-835-DIM-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

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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	1121.6	N.A.	18.70
0-30	2361.57	N.A.	39.30
0-40	3808.02	N.A.	63.40
0-60	5521.23	N.A.	91.90
0-80	5972.35	N.A.	99.40
0-90	6010.37	N.A.	100.00
10-90	5714.98	N.A.	95.10
20-40	2686.41	N.A.	44.70
20-50	3834.15	N.A.	63.80
40-70	2016.62	N.A.	33.60
60-80	451.12	N.A.	7.50
70-80	147.72	N.A.	2.50
80-90	38.02	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	6010.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	295.39
10-20	826.21
20-30	1239.97
30-40	1446.44
40-50	1147.74
50-60	565.47
60-70	303.41
70-80	147.72
80-90	38.02
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

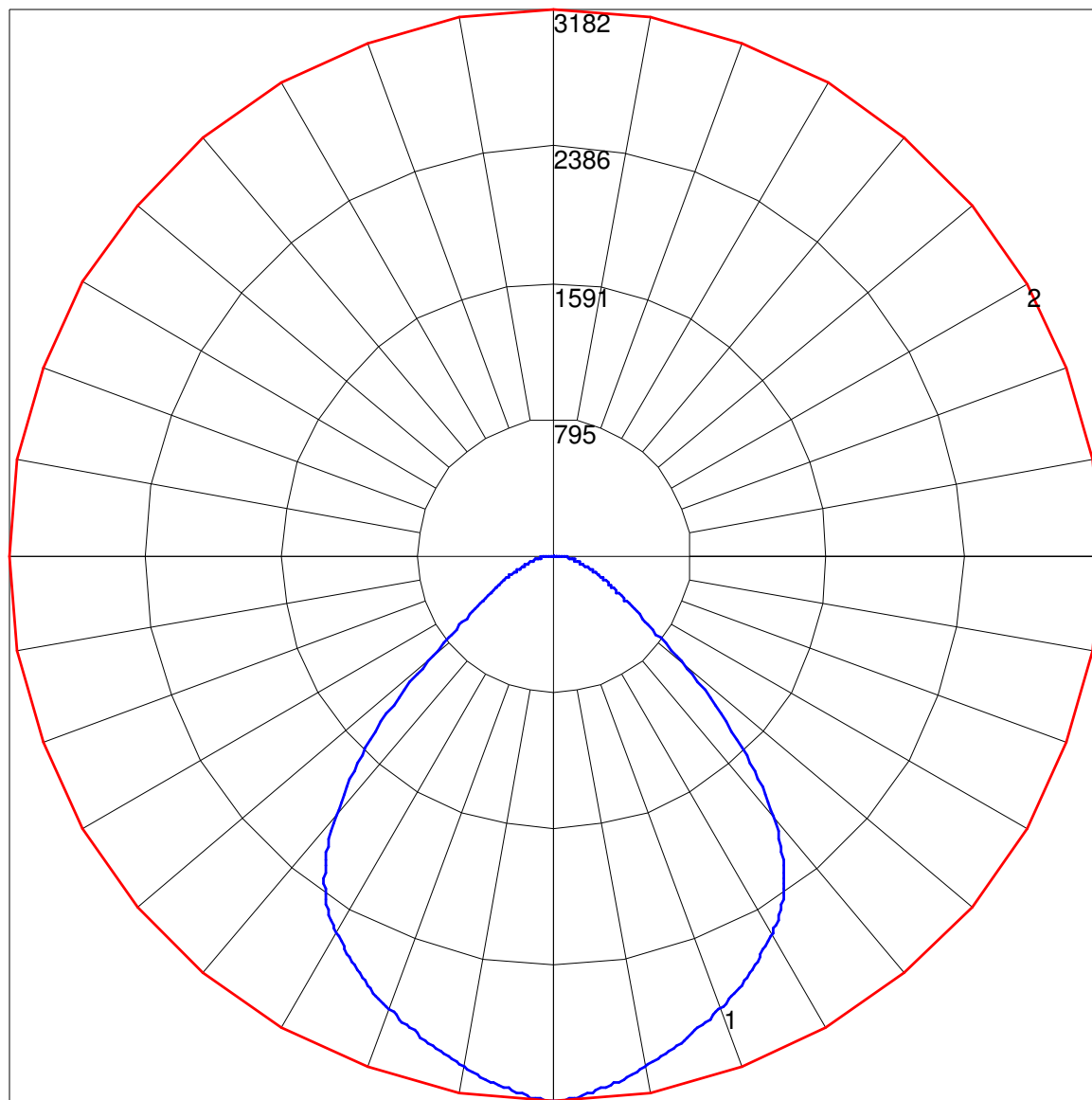
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	324	324	324	324	317	317	317	317	302	302	302	290	290	290	278	278	278	272
1	303	292	283	275	295	286	278	270	275	268	262	265	259	254	255	251	247	241
2	281	263	248	235	274	258	244	232	248	237	227	240	230	222	232	224	217	212
3	260	237	218	203	254	232	215	202	225	210	198	218	205	195	211	201	192	187
4	242	214	194	178	236	211	192	177	204	188	175	198	184	173	193	180	170	165
5	225	194	173	158	219	192	172	157	186	169	155	181	166	154	176	163	152	147
6	209	177	156	141	204	175	155	140	170	153	139	166	150	138	162	148	137	132
7	195	163	142	127	191	161	141	126	157	139	125	153	137	125	149	135	124	119
8	183	150	129	115	179	148	128	114	145	127	114	141	125	113	138	124	113	108
9	171	138	118	104	168	137	117	104	134	116	104	131	115	103	129	114	103	98
10	161	128	109	96	158	127	108	95	124	107	95	122	106	95	120	105	94	90

POLAR GRAPH



Maximum Candela = 3181.784 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.)