



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L80-835-DIM-RW-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.12
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 6/5/2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L80-835-DIM-RW-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	5657
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	79.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 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	76388	76388	76388
55	63704	63704	63704
65	44943	44943	44943
75	27531	27531	27531
85	21712	21712	21712

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CANDELA TABULATION

	<u>0</u>
0.0	4184.996
0.5	4181.081
1.0	4177.166
1.5	4173.251
2.0	4165.422
2.5	4153.677
3.0	4141.932
3.5	4126.273
4.0	4110.614
4.5	4098.869
5.0	4083.209
5.5	4067.550
6.0	4051.890
6.5	4036.231
7.0	4020.572
7.5	4004.912
8.0	3985.338
8.5	3969.678
9.0	3954.019
9.5	3934.444
10.0	3918.785
10.5	3899.602
11.0	3880.811
11.5	3862.019
12.0	3843.228
12.5	3824.828
13.0	3806.037
13.5	3786.462
14.0	3767.279
14.5	3748.488
15.0	3730.871
15.5	3712.863
16.0	3695.246
16.5	3678.020
17.0	3661.969
17.5	3645.918
18.0	3630.259
18.5	3615.382
19.0	3600.506
19.5	3585.238
20.0	3569.578
20.5	3552.745
21.0	3533.562
21.5	3511.638
22.0	3486.975
22.5	3459.571
23.0	3429.818
23.5	3396.150
24.0	3359.350
24.5	3319.027
25.0	3274.397
25.5	3226.244
26.0	3172.611
26.5	3113.888

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CANDELA TABULATION - (Cont.)

27.0	3051.250
27.5	2983.131
28.0	2910.706
28.5	2832.017
29.0	2749.022
29.5	2658.980
30.0	2563.457
30.5	2462.453
31.0	2357.535
31.5	2250.267
32.0	2141.042
32.5	2032.601
33.0	1925.333
33.5	1821.589
34.0	1722.151
34.5	1628.586
35.0	1543.242
35.5	1464.944
36.0	1396.043
36.5	1334.971
37.0	1281.337
37.5	1235.533
38.0	1195.210
38.5	1159.585
39.0	1128.657
39.5	1101.253
40.0	1076.198
40.5	1053.492
41.0	1032.351
41.5	1013.168
42.0	995.551
42.5	978.718
43.0	962.667
43.5	947.399
44.0	932.914
44.5	919.211
45.0	905.118
45.5	891.807
46.0	878.105
46.5	864.795
47.0	851.093
47.5	837.391
48.0	823.297
48.5	809.204
49.0	795.893
49.5	782.191
50.0	767.706
50.5	752.830
51.0	737.562
51.5	722.294
52.0	707.026
52.5	691.366
53.0	676.098
53.5	661.222
54.0	644.779
54.5	628.337

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CANDELA TABULATION - (Cont.)

55.0	612.286
55.5	595.843
56.0	579.792
56.5	563.741
57.0	547.690
57.5	531.639
58.0	516.371
58.5	500.712
59.0	485.444
59.5	470.567
60.0	455.691
60.5	440.814
61.0	426.329
61.5	412.236
62.0	398.142
62.5	384.440
63.0	370.738
63.5	357.036
64.0	344.117
64.5	330.807
65.0	318.279
65.5	305.360
66.0	293.224
66.5	281.088
67.0	269.343
67.5	257.598
68.0	246.245
68.5	234.892
69.0	224.322
69.5	213.360
70.0	203.182
70.5	193.003
71.0	183.216
71.5	173.820
72.0	164.425
72.5	155.812
73.0	147.591
73.5	140.152
74.0	132.714
74.5	126.059
75.0	119.404
75.5	113.531
76.0	107.659
76.5	102.570
77.0	97.872
77.5	93.174
78.0	88.476
78.5	83.778
79.0	79.472
79.5	75.166
80.0	70.859
80.5	66.553
81.0	62.246
81.5	58.332
82.0	54.025
82.5	50.110

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CANDELA TABULATION - (Cont.)

83.0	46.195
83.5	42.672
84.0	38.757
84.5	35.234
85.0	31.710
85.5	28.187
86.0	24.664
86.5	21.140
87.0	18.008
87.5	14.485
88.0	11.745
88.5	9.396
89.0	7.438
89.5	5.481
90.0	3.915
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
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121.0	0.000
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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

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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
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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	1438.05	N.A.	25.40
0-30	2907.18	N.A.	51.40
0-40	3923.63	N.A.	69.40
0-60	5170.98	N.A.	91.40
0-80	5621.28	N.A.	99.40
0-90	5657.39	N.A.	100.00
10-90	5272.95	N.A.	93.20
20-40	2485.58	N.A.	43.90
20-50	3186.87	N.A.	56.30
40-70	1565.16	N.A.	27.70
60-80	450.30	N.A.	8.00
70-80	132.49	N.A.	2.30
80-90	36.11	N.A.	0.60
90-110	0.11	N.A.	0.00
90-120	0.11	N.A.	0.00
90-130	0.11	N.A.	0.00
90-150	0.11	N.A.	0.00
90-180	0.11	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5657.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	384.44
10-20	1053.61
20-30	1469.13
30-40	1016.45
40-50	701.29
50-60	546.06
60-70	317.81
70-80	132.49
80-90	36.11
90-100	0.11
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

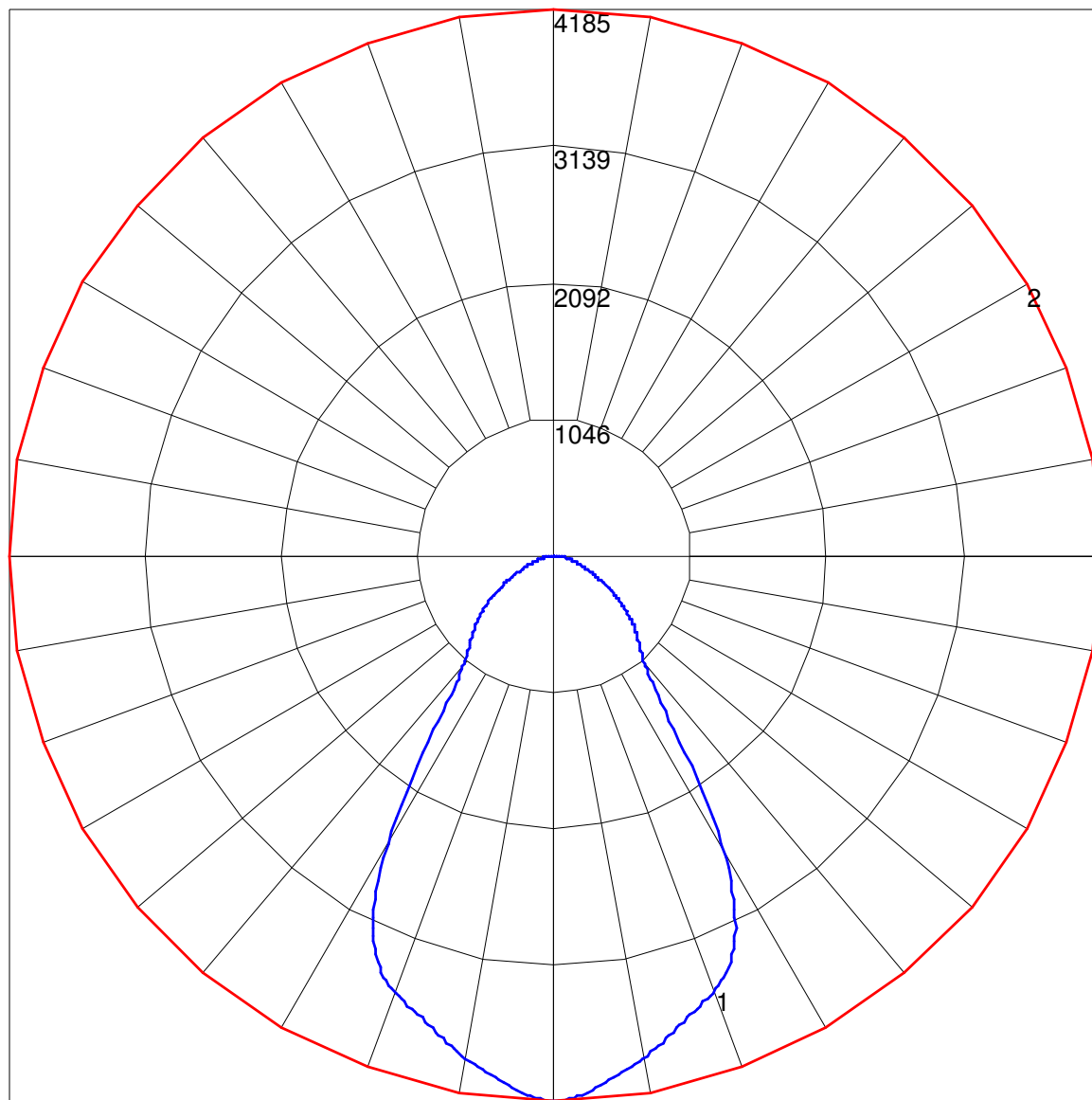
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	466	466	466	466	455	455	455	455	435	435	435	417	417	417	400	400	400	392
1	436	422	410	398	426	414	402	392	397	388	380	383	375	368	369	363	357	350
2	407	382	361	344	397	375	356	340	362	346	332	349	336	325	338	328	318	311
3	379	347	322	302	371	341	318	299	330	310	294	320	303	289	311	297	285	277
4	354	317	289	268	346	312	286	266	303	281	263	294	275	260	286	270	257	249
5	331	291	262	241	324	286	260	240	279	255	237	272	251	235	265	247	233	226
6	311	268	239	218	304	264	237	217	258	234	216	252	230	214	246	227	212	206
7	292	248	219	199	286	245	218	199	240	215	197	234	213	196	230	210	195	188
8	275	231	202	183	270	228	201	183	223	199	182	219	197	181	215	195	180	174
9	260	215	188	169	255	213	187	169	209	185	168	205	183	167	201	181	167	161
10	246	202	175	157	242	200	174	157	196	173	156	193	171	156	190	170	155	149

POLAR GRAPH



Maximum Candela = 4184.996 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.)