

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-P28-835-DIM-POE-OM-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12316380.04

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 6/4/2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 4DR-P29-835-DIM-PoE-OM-OF-CS

[LUMINAIRE] Black formed aluminum housing, specular reflector, no lens

[MORE] enclosure

[LAMP] One white LED

[BALLAST] Philips XI025C070V054DSM5

[OTHER] 25.3 C, 119.967 V, 0.166154 A, 19.8249 W, 0.994578 PF, 59.9698

[MORE] Hz

[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	2719
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.38 ft (Diameter)
Luminous Width (90-270)	0.38 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	6751	6751	6751
55	1960	1960	1960
65	688	688	688
75	307	307	307
85	152	152	152

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CANDELA TABULATION

	<u>0</u>
0.0	5501.833
0.5	5505.908
1.0	5522.205
1.5	5537.145
2.0	5571.099
2.5	5592.829
3.0	5596.903
3.5	5598.261
4.0	5567.024
4.5	5524.922
5.0	5444.791
5.5	5342.931
6.0	5228.847
6.5	5101.181
7.0	4962.651
7.5	4818.688
8.0	4670.650
8.5	4523.971
9.0	4380.008
9.5	4240.119
10.0	4107.021
10.5	3982.072
11.0	3865.272
11.5	3755.263
12.0	3650.686
12.5	3552.900
13.0	3460.546
13.5	3372.267
14.0	3288.062
14.5	3210.648
15.0	3140.024
15.5	3077.550
16.0	3025.940
16.5	2979.764
17.0	2936.303
17.5	2898.275
18.0	2864.322
18.5	2835.801
19.0	2815.428
19.5	2797.773
20.0	2782.833
20.5	2765.177
21.0	2747.521
21.5	2728.507
22.0	2708.135
22.5	2682.330
23.0	2651.093
23.5	2613.065
24.0	2565.530
24.5	2503.056
25.0	2431.074
25.5	2355.018
26.0	2280.320
26.5	2197.474

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CANDELA TABULATION - (Cont.)

27.0	2110.553
27.5	2011.408
28.0	1898.683
28.5	1775.092
29.0	1646.068
29.5	1514.328
30.0	1374.440
30.5	1229.526
31.0	1077.822
31.5	926.660
32.0	781.339
32.5	645.389
33.0	527.095
33.5	426.185
34.0	341.165
34.5	270.542
35.0	213.228
35.5	170.039
36.0	142.333
36.5	127.801
37.0	119.109
37.5	111.503
38.0	104.849
38.5	98.737
39.0	93.169
39.5	88.143
40.0	83.390
40.5	78.908
41.0	74.698
41.5	70.895
42.0	67.228
42.5	63.833
43.0	60.437
43.5	57.449
44.0	54.461
44.5	51.609
45.0	49.029
45.5	46.448
46.0	43.868
46.5	41.423
47.0	38.843
47.5	36.398
48.0	34.089
48.5	31.916
49.0	29.743
49.5	27.570
50.0	25.397
50.5	23.360
51.0	21.594
51.5	19.965
52.0	18.335
52.5	16.977
53.0	15.619
53.5	14.532
54.0	13.446
54.5	12.359

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CANDELA TABULATION - (Cont.)

55.0	11.544
55.5	10.729
56.0	9.914
56.5	9.235
57.0	8.556
57.5	8.013
58.0	7.470
58.5	6.927
59.0	6.519
59.5	6.112
60.0	5.704
60.5	5.297
61.0	5.025
61.5	4.618
62.0	4.346
62.5	4.074
63.0	3.803
63.5	3.667
64.0	3.395
64.5	3.124
65.0	2.988
65.5	2.852
66.0	2.580
66.5	2.445
67.0	2.309
67.5	2.173
68.0	2.037
68.5	1.901
69.0	1.766
69.5	1.630
70.0	1.494
70.5	1.494
71.0	1.358
71.5	1.222
72.0	1.087
72.5	1.087
73.0	0.951
73.5	0.951
74.0	0.815
74.5	0.815
75.0	0.815
75.5	0.679
76.0	0.679
76.5	0.543
77.0	0.543
77.5	0.543
78.0	0.407
78.5	0.407
79.0	0.407
79.5	0.407
80.0	0.272
80.5	0.272
81.0	0.272
81.5	0.272
82.0	0.272
82.5	0.272

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CANDELA TABULATION - (Cont.)

83.0	0.272
83.5	0.136
84.0	0.136
84.5	0.136
85.0	0.136
85.5	0.136
86.0	0.136
86.5	0.136
87.0	0.136
87.5	0.136
88.0	0.000
88.5	0.000
89.0	0.000
89.5	0.000
90.0	0.000
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
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

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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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1371.51	N.A.	50.40
0-30	2422.41	N.A.	89.10
0-40	2665.00	N.A.	98.00
0-60	2714.95	N.A.	99.80
0-80	2718.92	N.A.	100.00
0-90	2719.09	N.A.	100.00
10-90	2247.97	N.A.	82.70
20-40	1293.49	N.A.	47.60
20-50	1332.09	N.A.	49.00
40-70	53.08	N.A.	2.00
60-80	3.98	N.A.	0.10
70-80	0.85	N.A.	0.00
80-90	0.16	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2719.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	471.11
10-20	900.40
20-30	1050.9
30-40	242.59
40-50	38.60
50-60	11.35
60-70	3.13
70-80	0.85
80-90	0.16
90-100	0.00
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

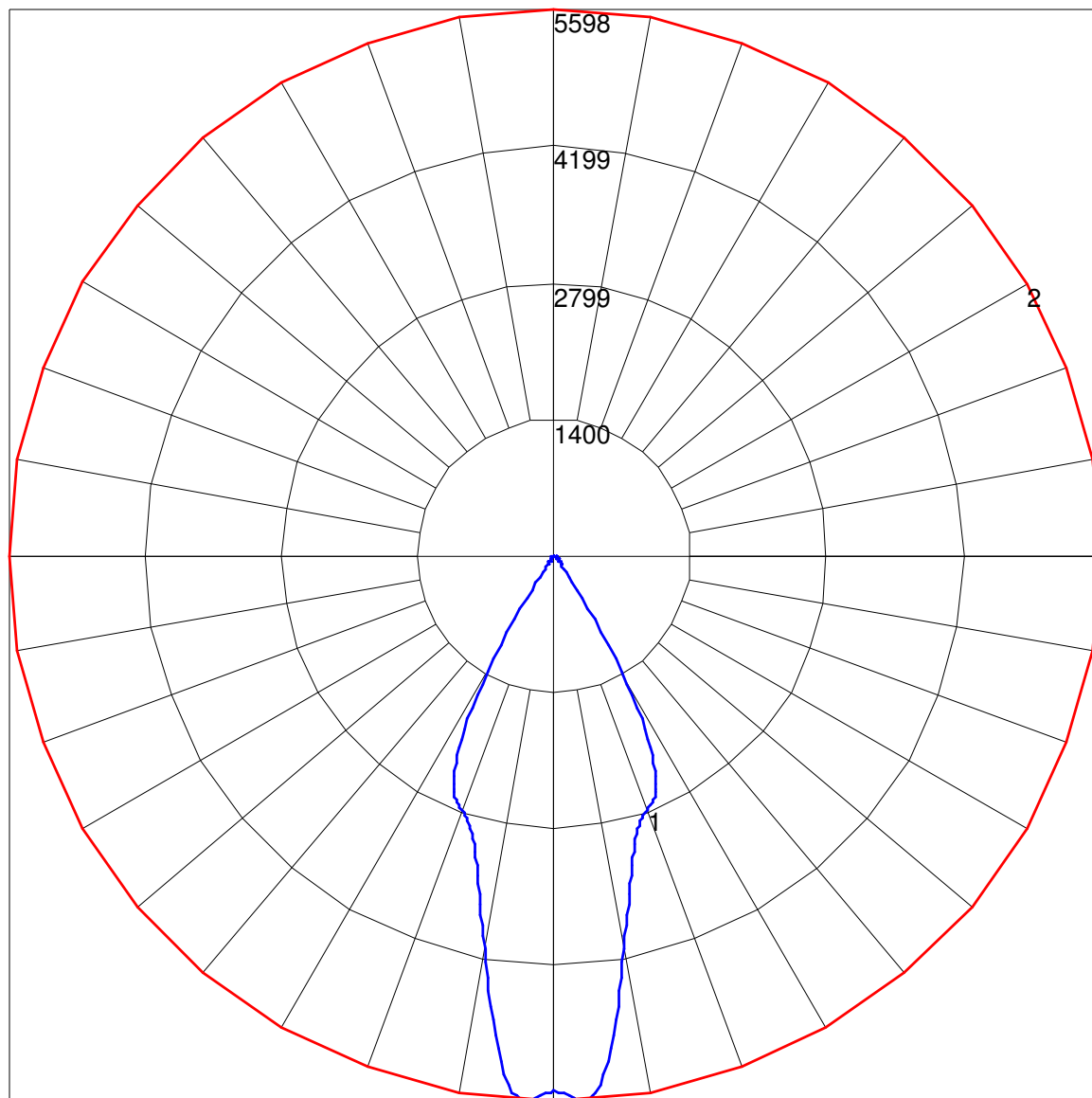
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	162	162	162	162	158	158	158	158	151	151	151	144	144	144	139	139	139	136
1	155	152	149	146	152	149	146	144	143	141	139	138	137	135	134	132	131	129
2	149	143	138	134	146	140	136	132	136	133	130	132	129	127	129	126	124	122
3	142	135	129	124	140	133	127	123	129	125	121	126	122	119	123	120	118	116
4	136	127	121	116	134	126	120	115	123	118	114	121	116	113	118	114	111	110
5	131	121	114	109	129	120	113	108	117	112	107	115	110	107	113	109	106	104
6	125	115	108	103	124	114	107	102	112	106	102	110	105	101	108	104	100	99
7	120	109	102	97	119	108	102	97	107	101	96	105	100	96	104	99	96	94
8	115	104	97	92	114	103	97	92	102	96	92	101	95	91	100	95	91	89
9	111	100	93	88	110	99	92	88	98	92	87	97	91	87	95	90	87	85
10	107	95	88	84	105	95	88	84	94	88	83	93	87	83	92	87	83	81

POLAR GRAPH



Maximum Candela = 5598.261 Located At Horizontal Angle = 0, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)