



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2DR-L5-840-DIM-UNV-OM-OF-CS-WET-CC_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13131414.06
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 11/08/2022
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
[LUMCAT] 2DR-L5-840-DIM-UNV-OM-OF-CS-WET-CC
[LUMINAIRE] Aluminum housing and reflector, no lens enclosure
[LAMP] One white LED
[BALLAST] Philips Advance XI036C100V054DSM1
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	443
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	6.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.66
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 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	3055	3055	3055
55	919	919	919
65	305	305	305
75	136	136	136
85	65	65	65

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CANDELA TABULATION

	<u>0</u>
0.0	999.756
0.5	999.756
1.0	999.571
1.5	999.386
2.0	999.386
2.5	997.906
3.0	995.317
3.5	992.727
4.0	989.583
4.5	986.438
5.0	982.739
5.5	977.560
6.0	971.086
6.5	961.467
7.0	950.184
7.5	938.531
8.0	925.953
8.5	911.896
9.0	896.728
9.5	880.821
10.0	863.989
10.5	846.417
11.0	828.290
11.5	809.978
12.0	791.481
12.5	772.614
13.0	753.932
13.5	735.436
14.0	717.494
14.5	699.922
15.0	682.534
15.5	665.332
16.0	648.130
16.5	630.928
17.0	613.911
17.5	597.079
18.0	580.432
18.5	563.970
19.0	546.952
19.5	529.750
20.0	511.993
20.5	494.051
21.0	475.739
21.5	457.058
22.0	438.006
22.5	418.029
23.0	397.498
23.5	376.411
24.0	354.585
24.5	332.389
25.0	309.823
25.5	286.886
26.0	263.950
26.5	240.829

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CANDELA TABULATION - (Cont.)

27.0	218.078
27.5	195.882
28.0	174.777
28.5	154.486
29.0	135.823
29.5	118.639
30.0	103.139
30.5	88.914
31.0	76.115
31.5	64.665
32.0	54.954
32.5	46.705
33.0	39.898
33.5	34.256
34.0	29.650
34.5	25.822
35.0	22.862
35.5	20.643
36.0	18.941
36.5	17.591
37.0	16.370
37.5	15.260
38.0	14.280
38.5	13.447
39.0	12.689
39.5	12.004
40.0	11.376
40.5	10.802
41.0	10.266
41.5	9.748
42.0	9.267
42.5	8.823
43.0	8.398
43.5	7.991
44.0	7.602
44.5	7.232
45.0	6.825
45.5	6.418
46.0	6.048
46.5	5.697
47.0	5.383
47.5	5.050
48.0	4.754
48.5	4.458
49.0	4.180
49.5	3.921
50.0	3.644
50.5	3.385
51.0	3.126
51.5	2.867
52.0	2.627
52.5	2.442
53.0	2.275
53.5	2.109
54.0	1.942
54.5	1.813

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CANDELA TABULATION - (Cont.)

55.0	1.665
55.5	1.535
56.0	1.424
56.5	1.295
57.0	1.184
57.5	1.110
58.0	1.036
58.5	0.962
59.0	0.888
59.5	0.832
60.0	0.777
60.5	0.740
61.0	0.684
61.5	0.647
62.0	0.610
62.5	0.573
63.0	0.536
63.5	0.499
64.0	0.462
64.5	0.444
65.0	0.407
65.5	0.388
66.0	0.370
66.5	0.351
67.0	0.314
67.5	0.296
68.0	0.277
68.5	0.259
69.0	0.259
69.5	0.240
70.0	0.222
70.5	0.203
71.0	0.185
71.5	0.185
72.0	0.166
72.5	0.166
73.0	0.148
73.5	0.129
74.0	0.129
74.5	0.111
75.0	0.111
75.5	0.111
76.0	0.092
76.5	0.092
77.0	0.092
77.5	0.074
78.0	0.074
78.5	0.074
79.0	0.055
79.5	0.055
80.0	0.055
80.5	0.055
81.0	0.037
81.5	0.037
82.0	0.037
82.5	0.037

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CANDELA TABULATION - (Cont.)

83.0	0.037
83.5	0.018
84.0	0.018
84.5	0.018
85.0	0.018
85.5	0.018
86.0	0.018
86.5	0.018
87.0	0.018
87.5	0.018
88.0	0.018
88.5	0.018
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	278.87	N.A.	62.90
0-30	415.06	N.A.	93.70
0-40	435.48	N.A.	98.30
0-60	442.45	N.A.	99.90
0-80	443.02	N.A.	100.00
0-90	443.04	N.A.	100.00
10-90	352.98	N.A.	79.70
20-40	156.61	N.A.	35.30
20-50	161.96	N.A.	36.60
40-70	7.41	N.A.	1.70
60-80	0.56	N.A.	0.10
70-80	0.13	N.A.	0.00
80-90	0.03	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	443.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.06
10-20	188.81
20-30	136.19
30-40	20.42
40-50	5.35
50-60	1.62
60-70	0.44
70-80	0.13
80-90	0.03
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

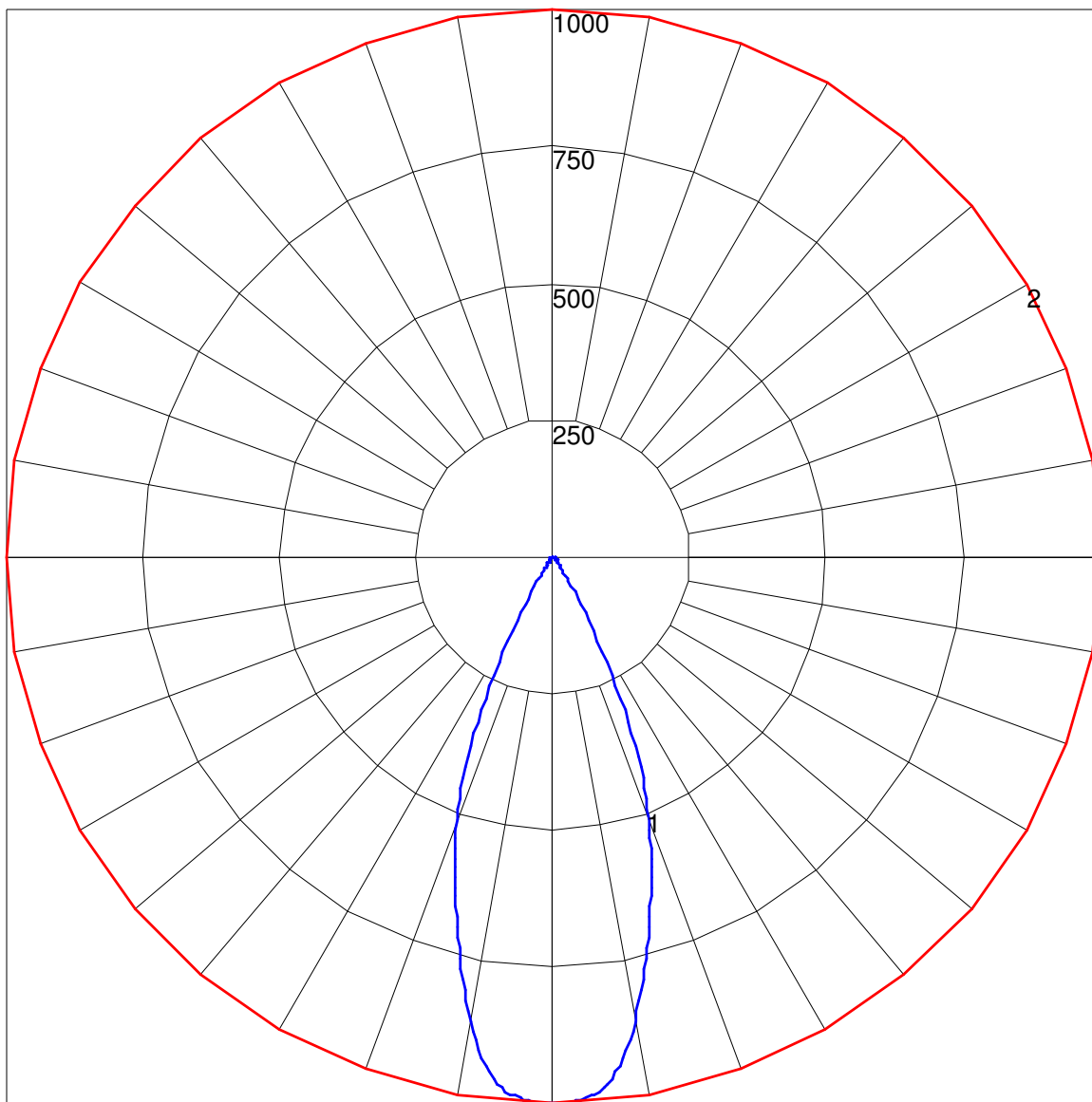
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87
4	102	96	91	88	100	95	91	87	93	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	68	74	71	68	67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65

POLAR GRAPH



Maximum Candela = 999.756 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.)