



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2DR-L5-840-EM5W-DIM-UNV-OM-OF-CS-WET-CC_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13131414.06
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 08-22-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMCAT] 2DR-L5-840-EM5W-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	330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	5
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	2275	2275	2275
55	684	684	684
65	227	227	227
75	101	101	101
85	51	51	51

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CANDELA TABULATION

	<u>0</u>
0.0	744.739
0.5	744.739
1.0	744.602
1.5	744.464
2.0	744.464
2.5	743.361
3.0	741.432
3.5	739.503
4.0	737.161
4.5	734.819
5.0	732.063
5.5	728.205
6.0	723.382
6.5	716.217
7.0	707.812
7.5	699.132
8.0	689.762
8.5	679.290
9.0	667.992
9.5	656.142
10.0	643.604
10.5	630.514
11.0	617.011
11.5	603.370
12.0	589.591
12.5	575.537
13.0	561.620
13.5	547.842
14.0	534.476
14.5	521.386
15.0	508.434
15.5	495.620
16.0	482.806
16.5	469.992
17.0	457.315
17.5	444.777
18.0	432.376
18.5	420.113
19.0	407.436
19.5	394.622
20.0	381.395
20.5	368.029
21.0	354.388
21.5	340.472
22.0	326.280
22.5	311.399
23.0	296.104
23.5	280.397
24.0	264.138
24.5	247.603
25.0	230.793
25.5	213.708
26.0	196.622
26.5	179.399

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27.0	162.451
27.5	145.917
28.0	130.195
28.5	115.080
29.0	101.177
29.5	88.377
30.0	76.830
30.5	66.234
31.0	56.699
31.5	48.170
32.0	40.937
32.5	34.791
33.0	29.721
33.5	25.518
34.0	22.087
34.5	19.235
35.0	17.030
35.5	15.377
36.0	14.109
36.5	13.104
37.0	12.194
37.5	11.367
38.0	10.637
38.5	10.017
39.0	9.452
39.5	8.942
40.0	8.474
40.5	8.047
41.0	7.647
41.5	7.261
42.0	6.903
42.5	6.572
43.0	6.256
43.5	5.952
44.0	5.663
44.5	5.387
45.0	5.084
45.5	4.781
46.0	4.506
46.5	4.244
47.0	4.010
47.5	3.762
48.0	3.541
48.5	3.321
49.0	3.114
49.5	2.921
50.0	2.714
50.5	2.522
51.0	2.329
51.5	2.136
52.0	1.957
52.5	1.819
53.0	1.695
53.5	1.571
54.0	1.447
54.5	1.350

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55.0	1.240
55.5	1.144
56.0	1.061
56.5	0.965
57.0	0.882
57.5	0.827
58.0	0.772
58.5	0.716
59.0	0.661
59.5	0.620
60.0	0.579
60.5	0.551
61.0	0.510
61.5	0.482
62.0	0.455
62.5	0.427
63.0	0.400
63.5	0.372
64.0	0.344
64.5	0.331
65.0	0.303
65.5	0.289
66.0	0.276
66.5	0.262
67.0	0.234
67.5	0.220
68.0	0.207
68.5	0.193
69.0	0.193
69.5	0.179
70.0	0.165
70.5	0.152
71.0	0.138
71.5	0.138
72.0	0.124
72.5	0.124
73.0	0.110
73.5	0.096
74.0	0.096
74.5	0.083
75.0	0.083
75.5	0.083
76.0	0.069
76.5	0.069
77.0	0.069
77.5	0.055
78.0	0.055
78.5	0.055
79.0	0.041
79.5	0.041
80.0	0.041
80.5	0.041
81.0	0.028
81.5	0.028
82.0	0.028
82.5	0.028

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83.0	0.028
83.5	0.014
84.0	0.014
84.5	0.014
85.0	0.014
85.5	0.014
86.0	0.014
86.5	0.014
87.0	0.014
87.5	0.014
88.0	0.014
88.5	0.014
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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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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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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Zone	Lumens	%Lamp	%Fixt
0-20	207.74	N.A.	62.90
0-30	309.19	N.A.	93.70
0-40	324.40	N.A.	98.30
0-60	329.59	N.A.	99.90
0-80	330.01	N.A.	100.00
0-90	330.03	N.A.	100.00
10-90	262.94	N.A.	79.70
20-40	116.66	N.A.	35.30
20-50	120.65	N.A.	36.60
40-70	5.52	N.A.	1.70
60-80	0.42	N.A.	0.10
70-80	0.09	N.A.	0.00
80-90	0.02	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	330.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.09
10-20	140.65
20-30	101.45
30-40	15.21
40-50	3.99
50-60	1.21
60-70	0.32
70-80	0.09
80-90	0.02
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

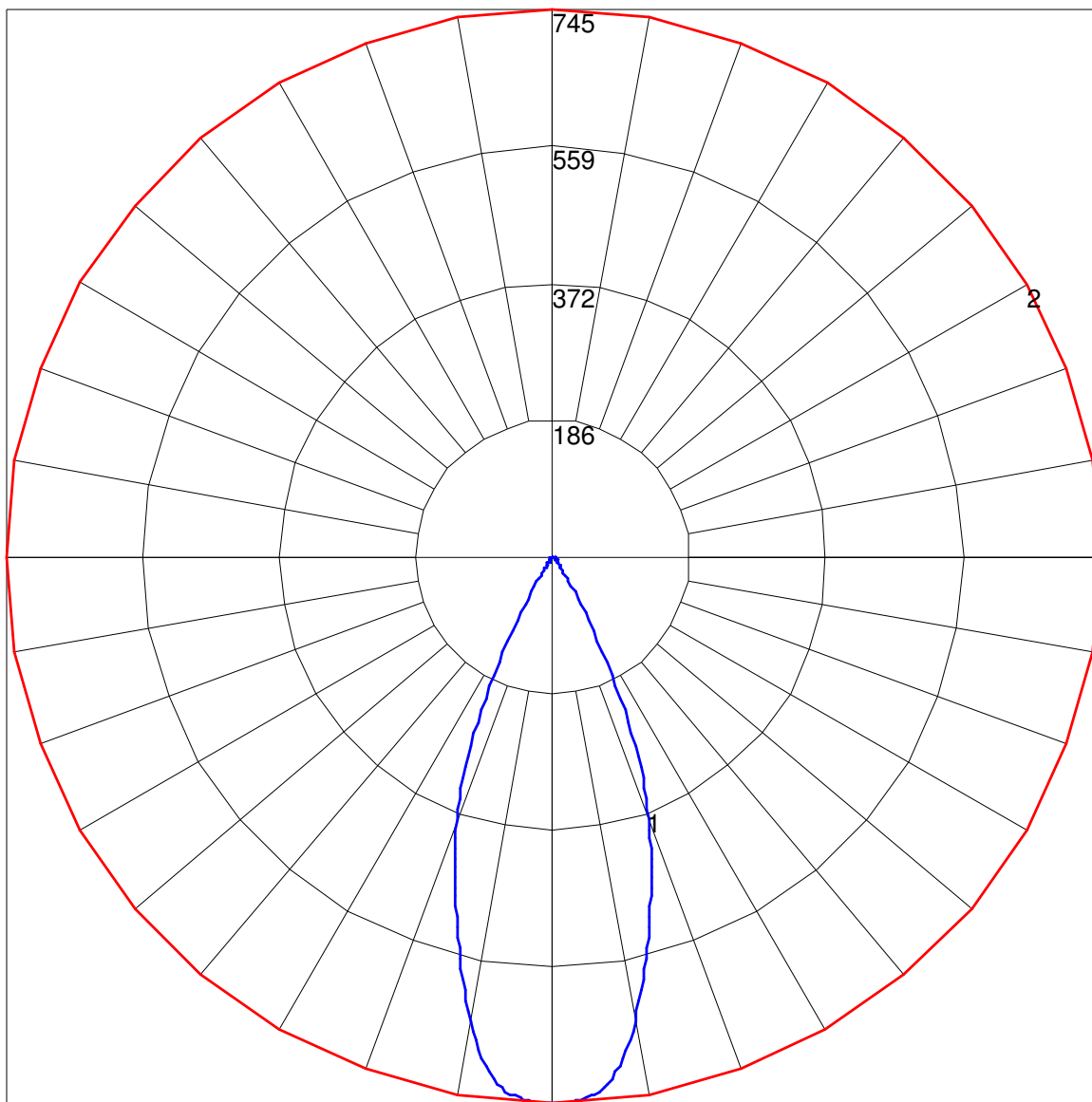
Effective Floor Cavity Reflectance 0.20

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

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POLAR GRAPH



Maximum Candela = 744.739 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.)