

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P402130

Luminaire Tested: **LA1MR052D010 EA1M52509040MW1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1912-604-8)  
Test Lab: INNOVATION CENTER (G3)  
Issue Date: 6/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LA1MR052D010 EA1M52509040MW1MW  
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

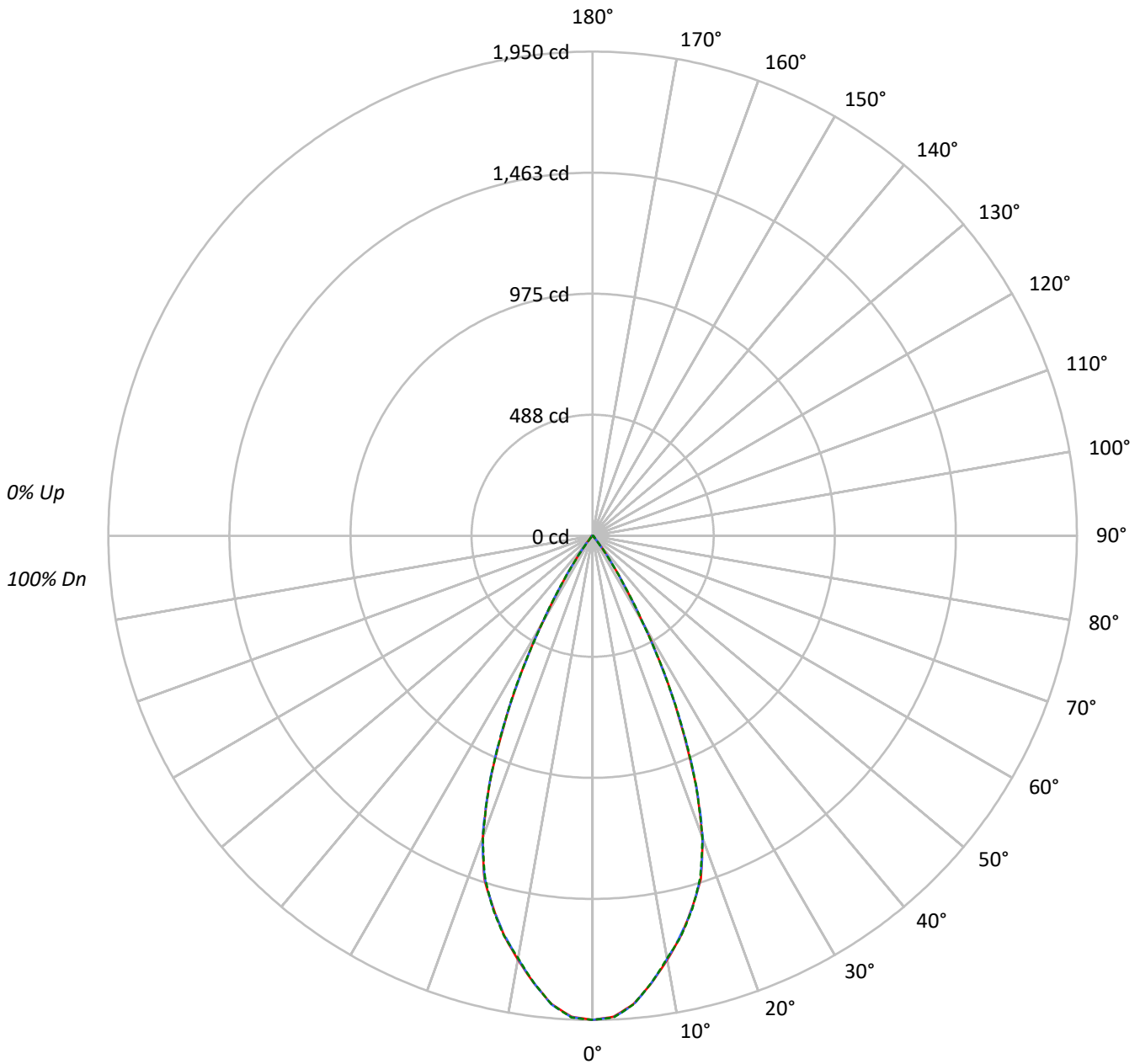
Lumens per Lamp: N/A  
Luminaire Lumens: 1100.5 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95				
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90				90				
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85				85				
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81				81				
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77				77				
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73				73				
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70				70				
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67				67				
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64				64				
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61				61				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	155976	155976	155976
5°	152034	152235	152147
10°	140770	140567	140332
15°	128308	128457	128639
20°	110061	110402	109976
25°	74606	75533	75400
30°	36960	37191	37061
35°	12344	12413	11680
40°	2820	2747	2371
45°	1097	1222	1018
50°	896	946	809
55°	809	809	697
60°	640	688	576
65°	416	473	341
70°	0	94	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	15.9
10°-20°	430.3	39.1
20°-30°	383.0	34.8
30°-40°	95.6	8.7
40°-50°	9.1	0.8
50°-60°	5.0	0.5
60°-70°	2.0	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	988.8	89.8
0°-40°	1084.4	98.5
0°-60°	1098.5	99.8
0°-90°	1100.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1893	1900	1896	1894	1895	175
15°	1549	1557	1551	1548	1553	430
25°	845	855	856	861	854	382
35°	126	131	127	125	120	95
45°	10	10	11	9	9	9
55°	6	6	6	5	5	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1949.7	1949.7	1949.7	1949.7	1949.7
2.5°	1938.5	1947.2	1941.1	1941.4	1941.8
5°	1893.2	1900.0	1895.7	1894.2	1894.6
7.5°	1816.5	1822.6	1815.7	1818.3	1815.4
10°	1732.9	1739.0	1730.4	1730.4	1727.5
12.5°	1647.9	1654.4	1644.0	1642.9	1649.7
15°	1549.2	1557.2	1551.0	1548.2	1553.2
17.5°	1449.5	1448.4	1444.8	1443.0	1441.2
20°	1292.8	1299.3	1296.8	1286.0	1291.8
22.5°	1086.8	1087.2	1090.8	1092.6	1087.9
25°	845.2	854.6	855.7	861.4	854.2
27.5°	626.3	628.1	618.3	619.0	625.9
30°	400.1	405.5	402.6	405.5	401.2
32.5°	230.8	235.5	233.7	235.9	236.2
35°	126.4	131.1	127.1	125.3	119.6
37.5°	62.7	62.7	64.1	59.1	56.2
40°	27.0	27.7	26.3	24.8	22.7
42.5°	13.7	13.7	14.4	12.2	11.9
45°	9.7	9.7	10.8	9.4	9.0
47.5°	8.3	8.3	9.0	7.9	7.6
50°	7.2	7.2	7.6	6.8	6.5
52.5°	6.5	6.5	6.8	6.1	5.8
55°	5.8	5.8	5.8	5.4	5.0
57.5°	4.7	5.0	5.0	4.7	4.3
60°	4.0	4.0	4.3	4.0	3.6
62.5°	3.2	3.2	3.2	3.2	2.9
65°	2.2	2.2	2.5	2.2	1.8
67.5°	0.4	0.7	1.8	0.0	0.0
70°	0.0	0.0	0.4	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)