

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: P402034

Luminaire Tested: **LA1MR012D010 EA1M12509040MW1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402034  
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: LA1MR012D010 EA1M12509040MW1MW  
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

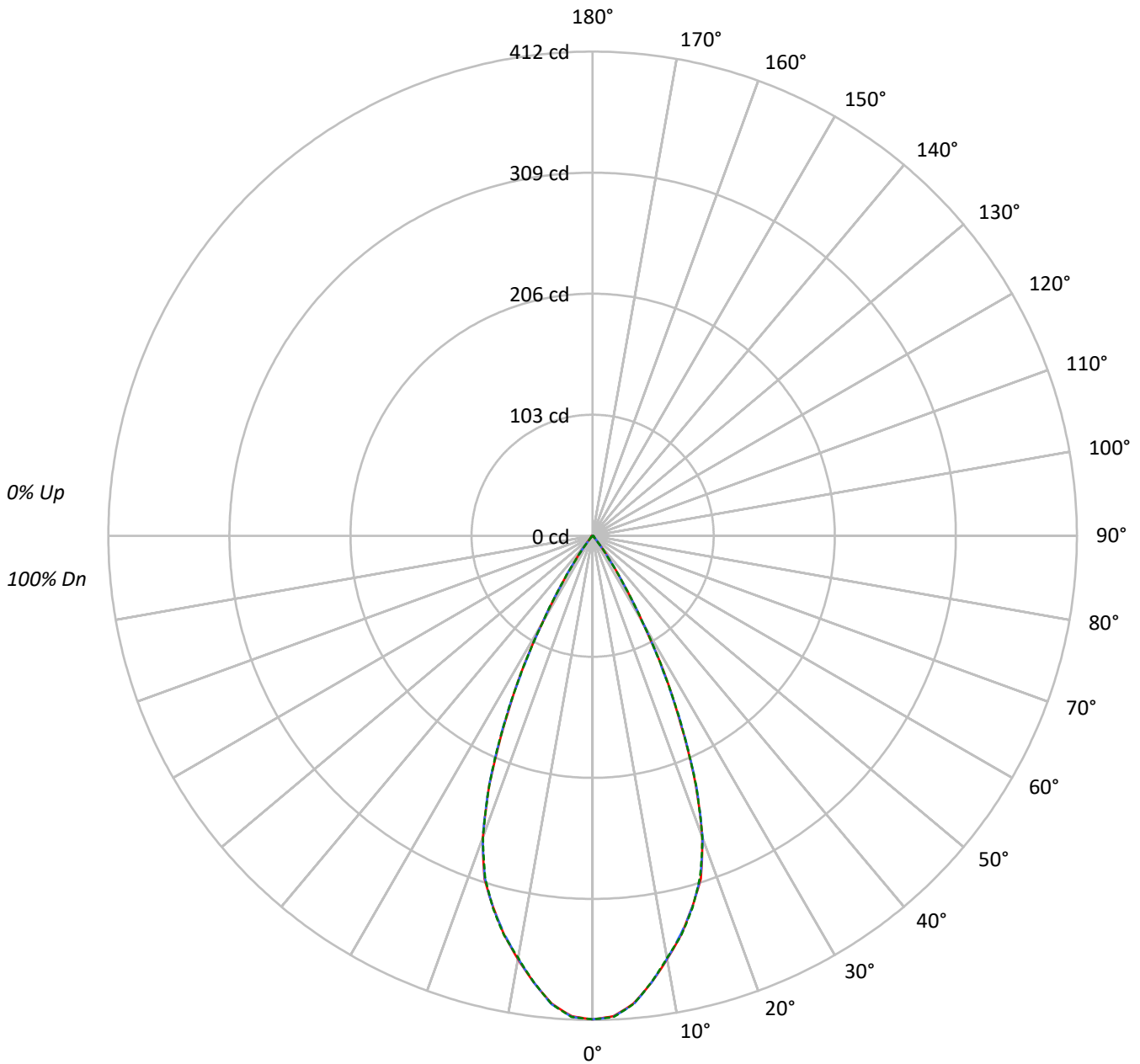
Lumens per Lamp: N/A  
Luminaire Lumens: 232.3 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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									
RC	80									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°	32920	32920	32920
5°	32090	32130	32114
10°	29715	29667	29618
15°	27083	27116	27149
20°	23233	23301	23216
25°	15747	15942	15915
30°	7806	7852	7824
35°	2608	2617	2461
40°	595	574	501
45°	238	260	215
50°	187	199	174
55°	167	167	153
60°	128	144	128
65°	95	95	76
70°	0	23	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.0	15.9
10°-20°	90.8	39.1
20°-30°	80.9	34.8
30°-40°	20.2	8.7
40°-50°	1.9	0.8
50°-60°	1.1	0.5
60°-70°	0.4	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°	208.7	89.8
0°-40°	228.9	98.5
0°-60°	231.9	99.8
0°-90°	232.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	232.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	400	401	400	400	400	37
15°	327	329	327	327	328	91
25°	178	180	181	182	180	81
35°	27	28	27	26	25	20
45°	2	2	2	2	2	2
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	411.5	411.5	411.5	411.5	411.5
2.5°	409.2	411.0	409.7	409.8	409.9
5°	399.6	401.1	400.1	399.8	399.9
7.5°	383.4	384.7	383.3	383.8	383.2
10°	365.8	367.1	365.2	365.2	364.6
12.5°	347.8	349.2	347.0	346.8	348.2
15°	327.0	328.7	327.4	326.8	327.8
17.5°	306.0	305.7	305.0	304.6	304.2
20°	272.9	274.3	273.7	271.4	272.7
22.5°	229.4	229.5	230.2	230.6	229.6
25°	178.4	180.4	180.6	181.8	180.3
27.5°	132.2	132.6	130.5	130.7	132.1
30°	84.5	85.6	85.0	85.6	84.7
32.5°	48.7	49.7	49.3	49.8	49.9
35°	26.7	27.7	26.8	26.5	25.2
37.5°	13.2	13.2	13.5	12.5	11.9
40°	5.7	5.9	5.5	5.2	4.8
42.5°	2.9	2.9	3.0	2.6	2.5
45°	2.1	2.1	2.3	2.0	1.9
47.5°	1.7	1.7	1.9	1.7	1.6
50°	1.5	1.5	1.6	1.4	1.4
52.5°	1.4	1.4	1.4	1.3	1.2
55°	1.2	1.2	1.2	1.1	1.1
57.5°	1.0	1.1	1.1	1.0	0.9
60°	0.8	0.8	0.9	0.8	0.8
62.5°	0.7	0.7	0.7	0.7	0.6
65°	0.5	0.5	0.5	0.5	0.4
67.5°	0.1	0.2	0.4	0.0	0.0
70°	0.0	0.0	0.1	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)