

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: P402026

Luminaire Tested: **LA1MR012D010 EA1M12509030MW1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402026  
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 EA1M12509030MW1MW  
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

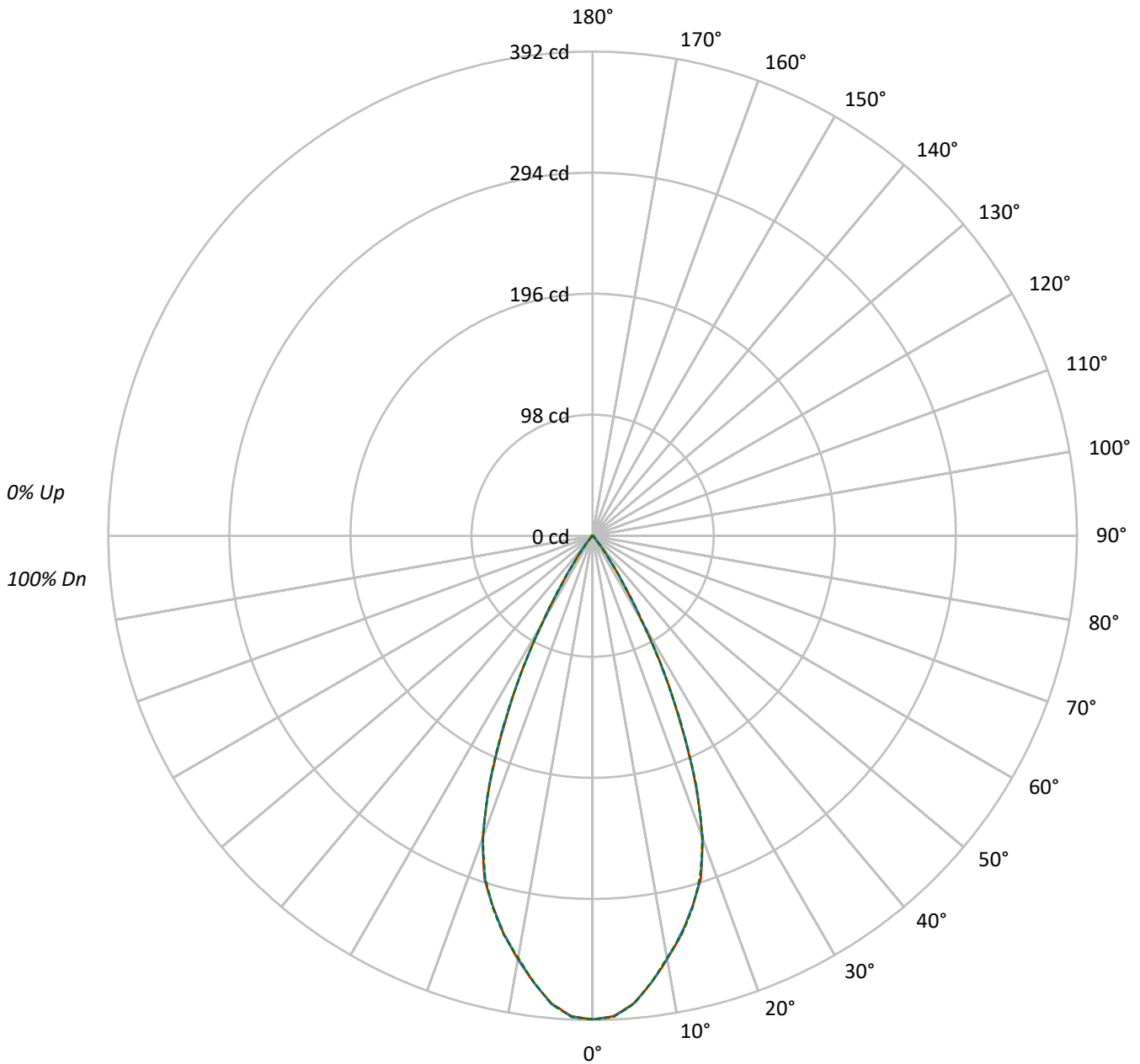
Lumens per Lamp: N/A  
Luminaire Lumens: 221.0 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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					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	63				63				
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°	31320	31320	31320
5°	30532	30572	30556
10°	28269	28229	28180
15°	25766	25799	25832
20°	22101	22169	22084
25°	14979	15165	15138
30°	7418	7464	7446
35°	2481	2490	2344
40°	564	553	480
45°	226	249	204
50°	174	187	162
55°	167	167	139
60°	128	144	112
65°	76	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°	35.2	15.9
10°-20°	86.4	39.1
20°-30°	76.9	34.8
30°-40°	19.2	8.7
40°-50°	1.8	0.8
50°-60°	1.0	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°	198.6	89.8
0°-40°	217.8	98.5
0°-60°	220.6	99.8
0°-90°	221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	221.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	380	382	381	380	380	35
15°	311	313	312	311	312	86
25°	170	172	172	173	172	77
35°	25	26	26	25	24	19
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	391.5	391.5	391.5	391.5	391.5
2.5°	389.3	391.0	389.8	389.9	389.9
5°	380.2	381.5	380.7	380.4	380.5
7.5°	364.8	366.0	364.6	365.1	364.5
10°	348.0	349.2	347.5	347.5	346.9
12.5°	330.9	332.2	330.1	329.9	331.3
15°	311.1	312.7	311.5	310.9	311.9
17.5°	291.1	290.9	290.1	289.8	289.4
20°	259.6	260.9	260.4	258.2	259.4
22.5°	218.2	218.3	219.0	219.4	218.5
25°	169.7	171.6	171.8	173.0	171.5
27.5°	125.8	126.1	124.2	124.3	125.7
30°	80.3	81.4	80.8	81.4	80.6
32.5°	46.4	47.3	46.9	47.4	47.4
35°	25.4	26.3	25.5	25.2	24.0
37.5°	12.6	12.6	12.9	11.9	11.3
40°	5.4	5.6	5.3	5.0	4.6
42.5°	2.7	2.7	2.9	2.5	2.4
45°	2.0	2.0	2.2	1.9	1.8
47.5°	1.7	1.7	1.8	1.6	1.5
50°	1.4	1.4	1.5	1.4	1.3
52.5°	1.3	1.3	1.4	1.2	1.2
55°	1.2	1.2	1.2	1.1	1.0
57.5°	0.9	1.0	1.0	0.9	0.9
60°	0.8	0.8	0.9	0.8	0.7
62.5°	0.7	0.7	0.7	0.7	0.6
65°	0.4	0.4	0.5	0.4	0.4
67.5°	0.1	0.1	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)