

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: P402036

Luminaire Tested: **LA1MR012D010 EA1M12509040SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402036  
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 EA1M12509040SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

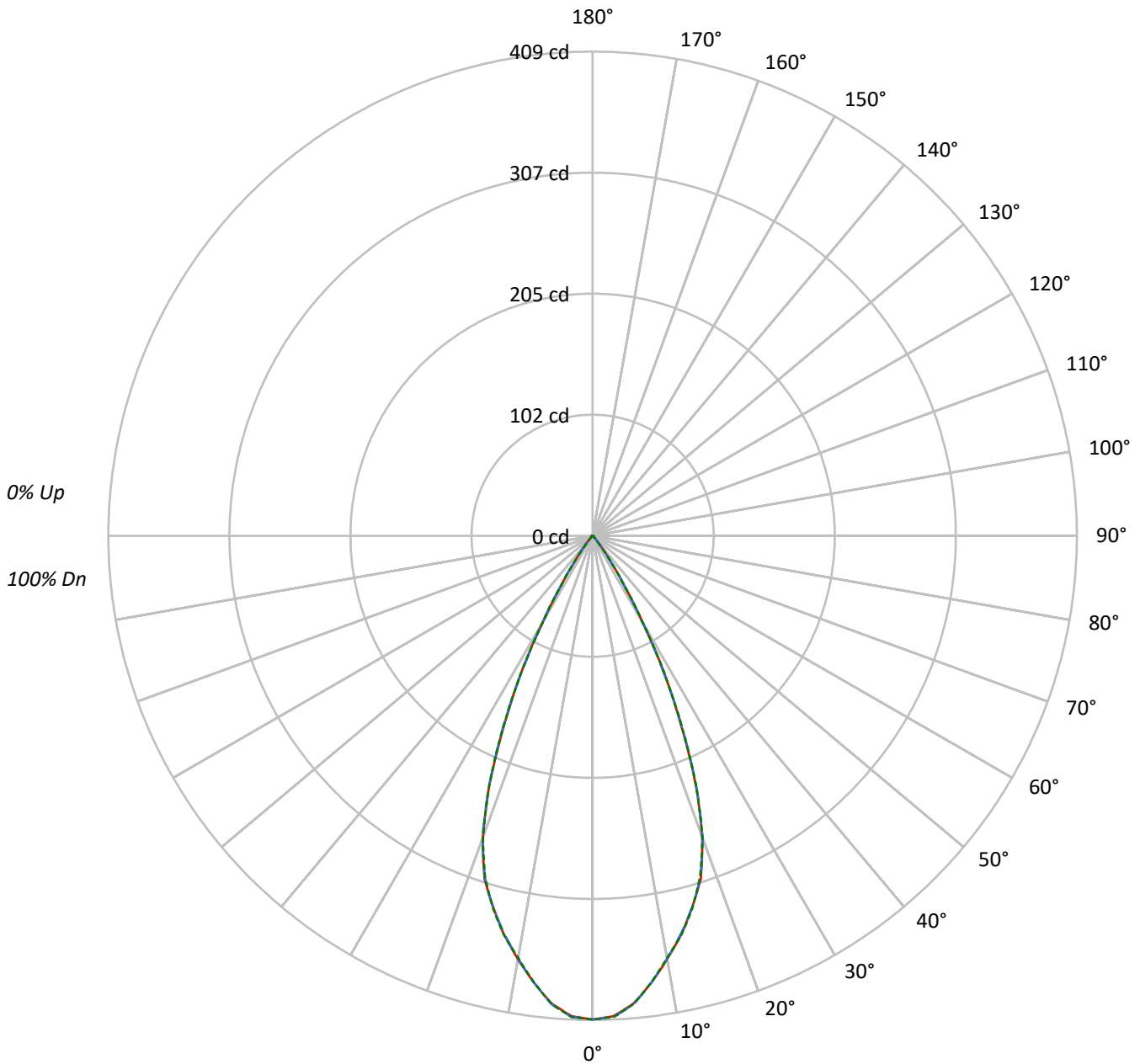
Lumens per Lamp: N/A  
Luminaire Lumens: 230.6 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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	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°	32688	32688	32688
5°	31857	31905	31881
10°	29496	29455	29407
15°	26892	26917	26959
20°	23063	23139	23046
25°	15633	15827	15800
30°	7741	7797	7769
35°	2588	2598	2451
40°	595	574	501
45°	226	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°	36.8	15.9
10°-20°	90.2	39.1
20°-30°	80.3	34.8
30°-40°	20.0	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°	207.2	89.8
0°-40°	227.3	98.5
0°-60°	230.2	99.8
0°-90°	230.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	230.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	397	398	397	397	397	37
15°	325	326	325	324	326	90
25°	177	179	179	180	179	80
35°	26	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	408.6	408.6	408.6	408.6	408.6
2.5°	406.2	408.1	406.8	406.8	406.9
5°	396.7	398.2	397.3	397.0	397.0
7.5°	380.7	381.9	380.5	381.0	380.4
10°	363.1	364.4	362.6	362.6	362.0
12.5°	345.3	346.7	344.5	344.3	345.7
15°	324.7	326.3	325.0	324.4	325.5
17.5°	303.8	303.5	302.8	302.4	302.0
20°	270.9	272.3	271.8	269.5	270.7
22.5°	227.8	227.8	228.6	229.0	228.0
25°	177.1	179.1	179.3	180.5	179.0
27.5°	131.2	131.6	129.6	129.7	131.2
30°	83.8	85.0	84.4	85.0	84.1
32.5°	48.4	49.4	49.0	49.4	49.5
35°	26.5	27.5	26.6	26.3	25.1
37.5°	13.1	13.1	13.4	12.4	11.8
40°	5.7	5.8	5.5	5.2	4.8
42.5°	2.9	2.9	3.0	2.6	2.5
45°	2.0	2.0	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)