

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: P402028

Luminaire Tested: **LA1MR012D010 EA1M12509030SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402028  
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 EA1M12509030SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

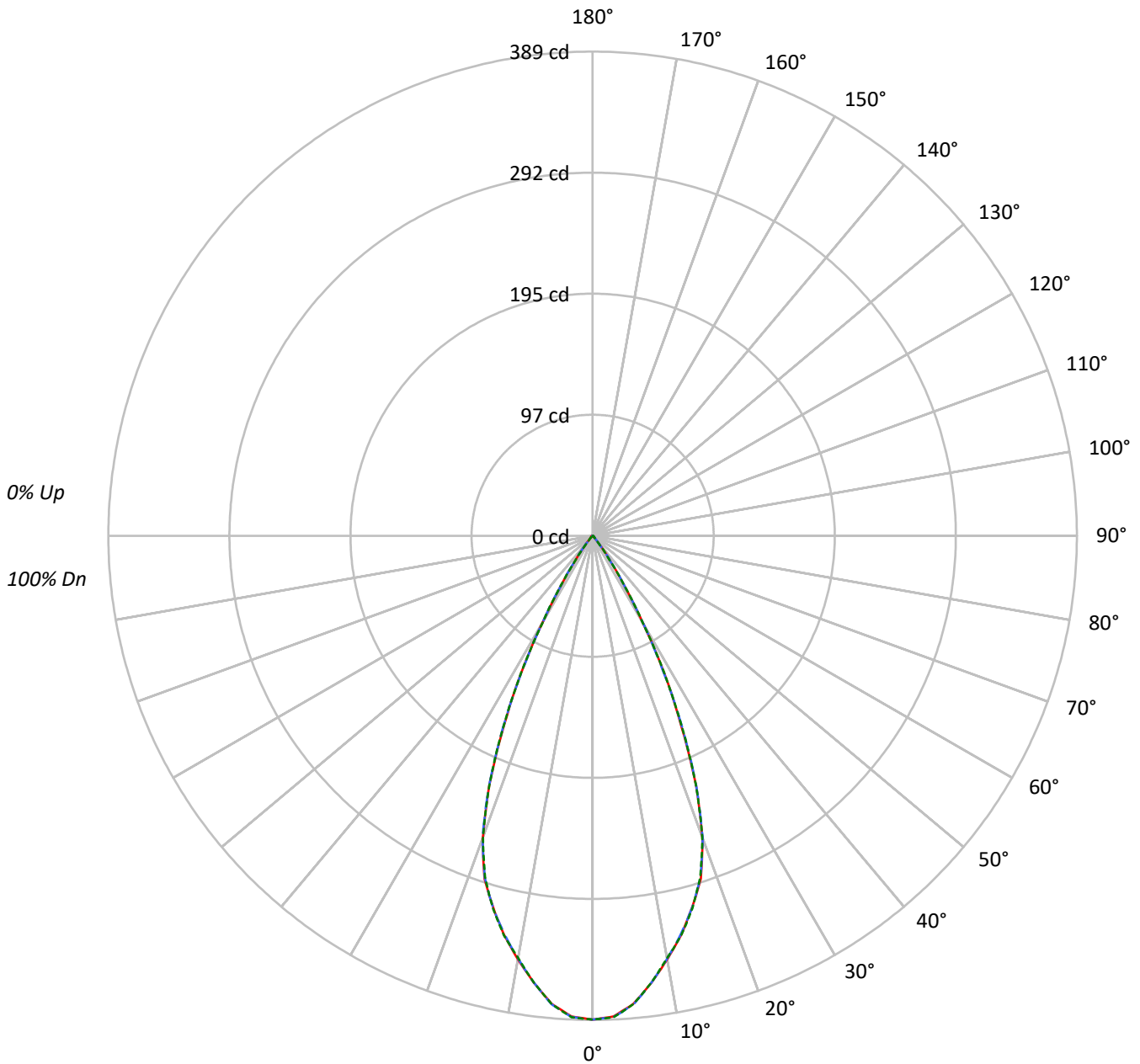
Lumens per Lamp: N/A  
Luminaire Lumens: 219.4 lumens  
Efficiency: N/A  
Efficacy: 60.9 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	31096	31096	31096
5°	30307	30347	30331
10°	28066	28026	27977
15°	25584	25609	25650
20°	21939	22007	21922
25°	14874	15059	15032
30°	7372	7418	7390
35°	2461	2471	2324
40°	564	543	470
45°	215	249	204
50°	174	187	162
55°	153	153	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°	35.0	15.9
10°-20°	85.8	39.1
20°-30°	76.4	34.8
30°-40°	19.1	8.7
40°-50°	1.8	0.8
50°-60°	1.0	0.4
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°	197.1	89.9
0°-40°	216.2	98.5
0°-60°	219.0	99.8
0°-90°	219.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	219.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	377	379	378	378	378	35
15°	309	310	309	309	310	86
25°	168	170	171	172	170	76
35°	25	26	25	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	388.7	388.7	388.7	388.7	388.7
2.5°	386.5	388.2	387.0	387.0	387.1
5°	377.4	378.8	377.9	377.6	377.7
7.5°	362.1	363.4	362.0	362.5	361.9
10°	345.5	346.7	345.0	345.0	344.4
12.5°	328.5	329.8	327.7	327.5	328.9
15°	308.9	310.4	309.2	308.6	309.7
17.5°	289.0	288.8	288.0	287.7	287.3
20°	257.7	259.0	258.5	256.4	257.5
22.5°	216.7	216.8	217.5	217.8	216.9
25°	168.5	170.4	170.6	171.7	170.3
27.5°	124.9	125.2	123.3	123.4	124.8
30°	79.8	80.8	80.3	80.8	80.0
32.5°	46.0	47.0	46.6	47.0	47.1
35°	25.2	26.1	25.3	25.0	23.8
37.5°	12.5	12.5	12.8	11.8	11.2
40°	5.4	5.5	5.2	5.0	4.5
42.5°	2.7	2.7	2.9	2.4	2.4
45°	1.9	1.9	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	1.1
55°	1.1	1.1	1.1	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°	0.6	0.6	0.6	0.6	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)