

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: P402085

Luminaire Tested: **LA1MR022D010 EA1M22509027MMS1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402085  
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: LA1MR022D010 EA1M22509027MMS1MW  
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

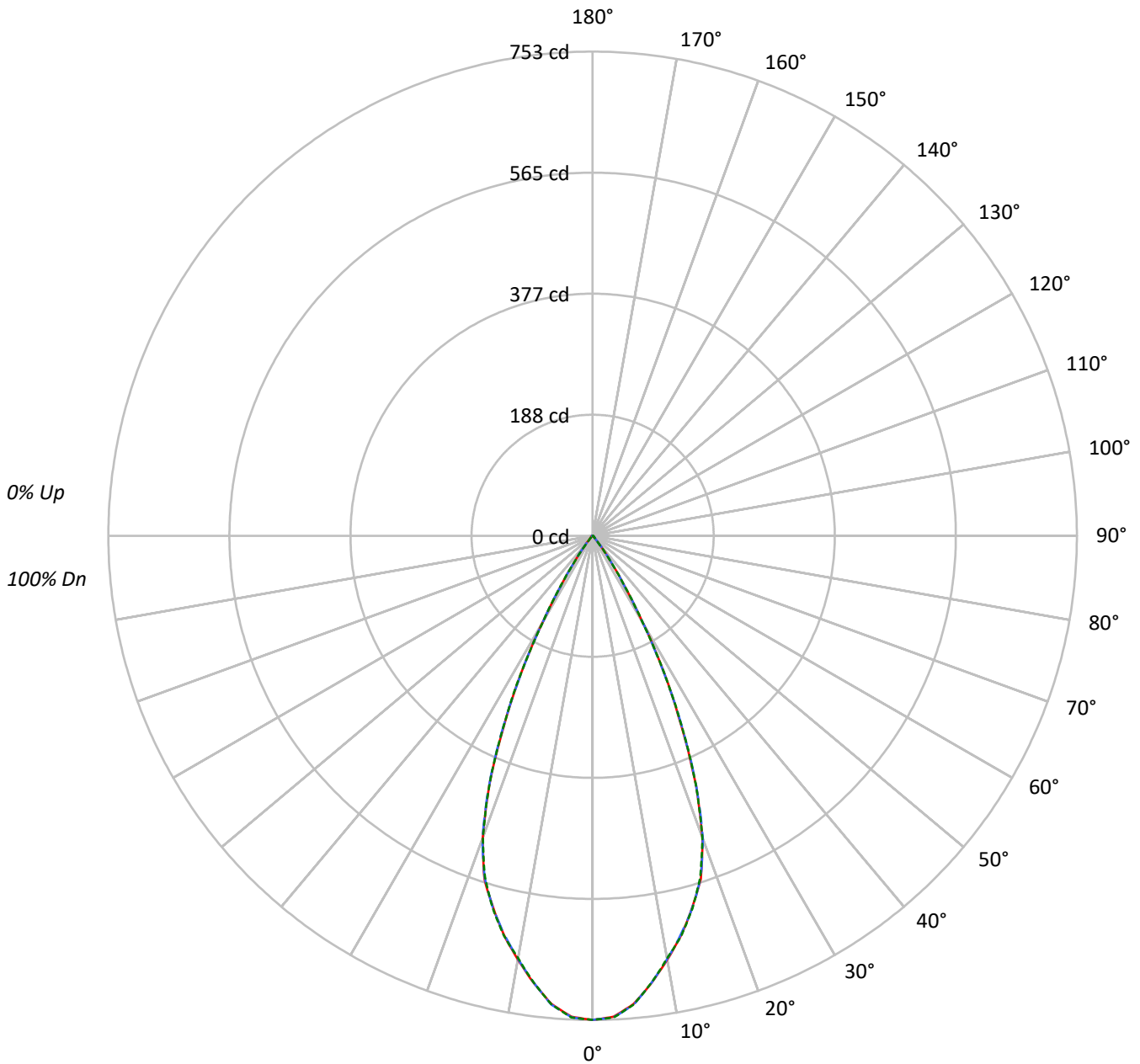
Lumens per Lamp: N/A  
Luminaire Lumens: 425.0 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.7  
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°	60232	60232	60232
5°	58711	58792	58760
10°	54362	54289	54191
15°	49552	49610	49677
20°	42507	42635	42473
25°	28811	29164	29120
30°	14272	14364	14309
35°	4766	4795	4512
40°	1086	1065	919
45°	430	475	396
50°	348	361	311
55°	307	307	265
60°	240	272	224
65°	151	189	133
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°	67.8	15.9
10°-20°	166.2	39.1
20°-30°	147.9	34.8
30°-40°	36.9	8.7
40°-50°	3.5	0.8
50°-60°	1.9	0.5
60°-70°	0.8	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°	381.9	89.8
0°-40°	418.8	98.5
0°-60°	424.2	99.8
0°-90°	425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	425.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	731	734	732	732	732	68
15°	598	601	599	598	600	166
25°	326	330	330	333	330	147
35°	49	51	49	48	46	37
45°	4	4	4	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
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°	752.9	752.9	752.9	752.9	752.9
2.5°	748.6	752.0	749.6	749.8	749.9
5°	731.1	733.8	732.1	731.5	731.7
7.5°	701.5	703.9	701.2	702.2	701.1
10°	669.2	671.6	668.3	668.3	667.1
12.5°	636.4	638.9	634.9	634.5	637.1
15°	598.3	601.4	599.0	597.9	599.8
17.5°	559.8	559.4	558.0	557.3	556.6
20°	499.3	501.8	500.8	496.6	498.9
22.5°	419.7	419.9	421.3	422.0	420.1
25°	326.4	330.0	330.4	332.7	329.9
27.5°	241.9	242.5	238.8	239.1	241.7
30°	154.5	156.6	155.5	156.6	154.9
32.5°	89.1	91.0	90.3	91.1	91.2
35°	48.8	50.6	49.1	48.4	46.2
37.5°	24.2	24.2	24.8	22.8	21.7
40°	10.4	10.7	10.2	9.6	8.8
42.5°	5.3	5.3	5.6	4.7	4.6
45°	3.8	3.8	4.2	3.6	3.5
47.5°	3.2	3.2	3.5	3.1	2.9
50°	2.8	2.8	2.9	2.6	2.5
52.5°	2.5	2.5	2.6	2.4	2.2
55°	2.2	2.2	2.2	2.1	1.9
57.5°	1.8	1.9	1.9	1.8	1.7
60°	1.5	1.5	1.7	1.5	1.4
62.5°	1.3	1.3	1.3	1.3	1.1
65°	0.8	0.8	1.0	0.8	0.7
67.5°	0.1	0.3	0.7	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)