

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: P402089

Luminaire Tested: **LA1MR022D010 EA1M22509030MMS1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402089  
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 EA1M22509030MMS1MW  
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

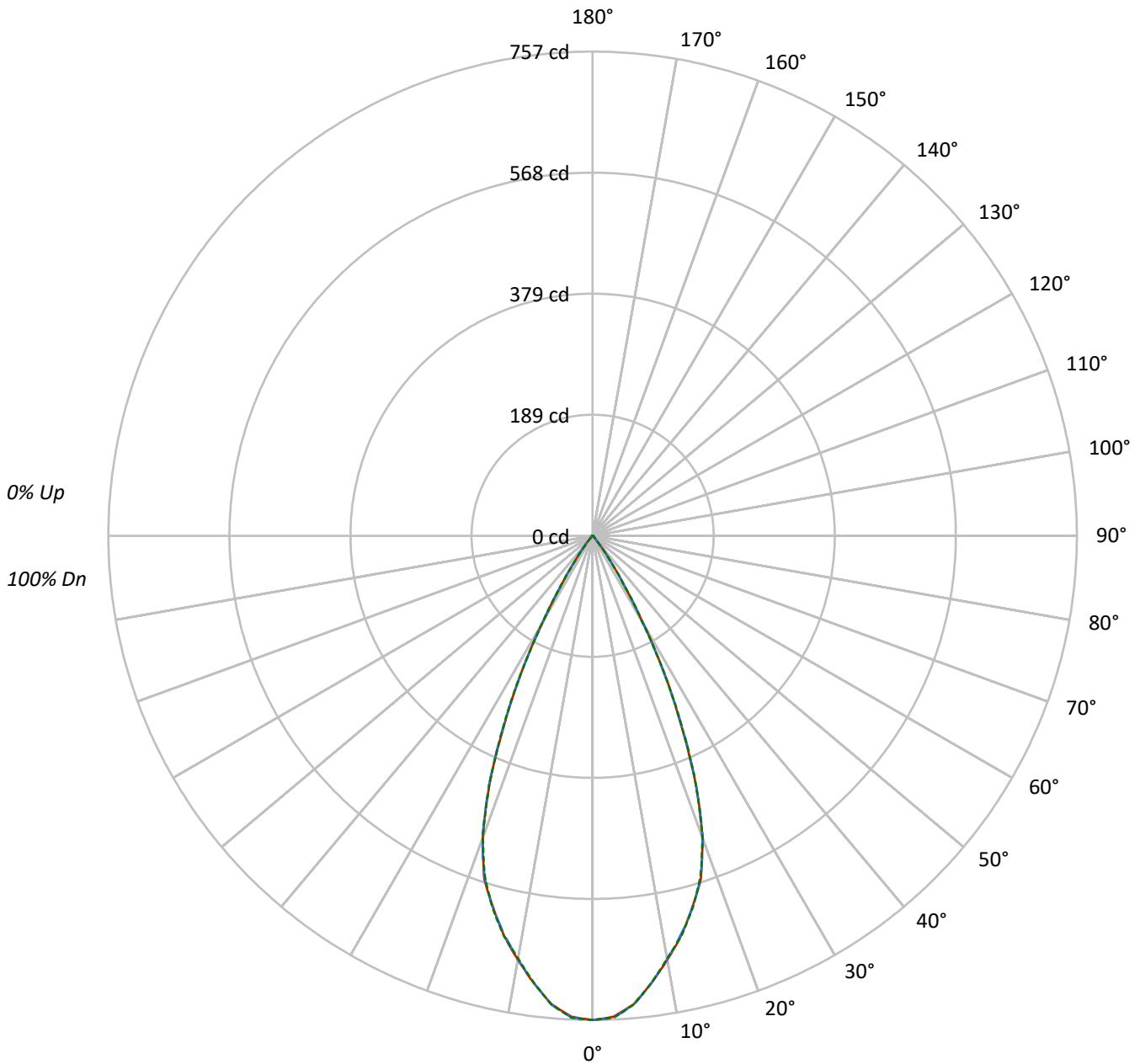
Lumens per Lamp: N/A  
Luminaire Lumens: 427.4 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P402089

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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°	60576	60576	60576
5°	59041	59121	59089
10°	54671	54589	54500
15°	49826	49884	49958
20°	42746	42874	42703
25°	28970	29332	29279
30°	14355	14448	14392
35°	4795	4824	4532
40°	1097	1065	919
45°	430	475	396
50°	348	361	311
55°	307	307	279
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°	68.2	15.9
10°-20°	167.1	39.1
20°-30°	148.8	34.8
30°-40°	37.1	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°	384.0	89.8
0°-40°	421.1	98.5
0°-60°	426.6	99.8
0°-90°	427.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	427.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	735	738	736	736	736	68
15°	602	605	602	601	603	167
25°	328	332	332	334	332	148
35°	49	51	49	49	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°	757.2	757.2	757.2	757.2	757.2
2.5°	752.8	756.2	753.8	753.9	754.1
5°	735.2	737.9	736.2	735.6	735.8
7.5°	705.4	707.8	705.1	706.1	705.0
10°	673.0	675.3	672.0	672.0	670.9
12.5°	640.0	642.5	638.4	638.0	640.7
15°	601.6	604.7	602.3	601.2	603.2
17.5°	562.9	562.5	561.1	560.4	559.7
20°	502.1	504.6	503.6	499.4	501.6
22.5°	422.1	422.2	423.6	424.3	422.5
25°	328.2	331.9	332.3	334.5	331.7
27.5°	243.2	243.9	240.1	240.4	243.1
30°	155.4	157.5	156.4	157.5	155.8
32.5°	89.6	91.5	90.8	91.6	91.7
35°	49.1	50.9	49.4	48.7	46.4
37.5°	24.3	24.3	24.9	22.9	21.8
40°	10.5	10.8	10.2	9.6	8.8
42.5°	5.3	5.3	5.6	4.8	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	2.7	2.5
52.5°	2.5	2.5	2.7	2.4	2.2
55°	2.2	2.2	2.2	2.1	2.0
57.5°	1.8	2.0	2.0	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)