

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: P402121

Luminaire Tested: **LA1MR052D010 EA1M52509030MMS1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402121  
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: LA1MR052D010 EA1M52509030MMS1MW  
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

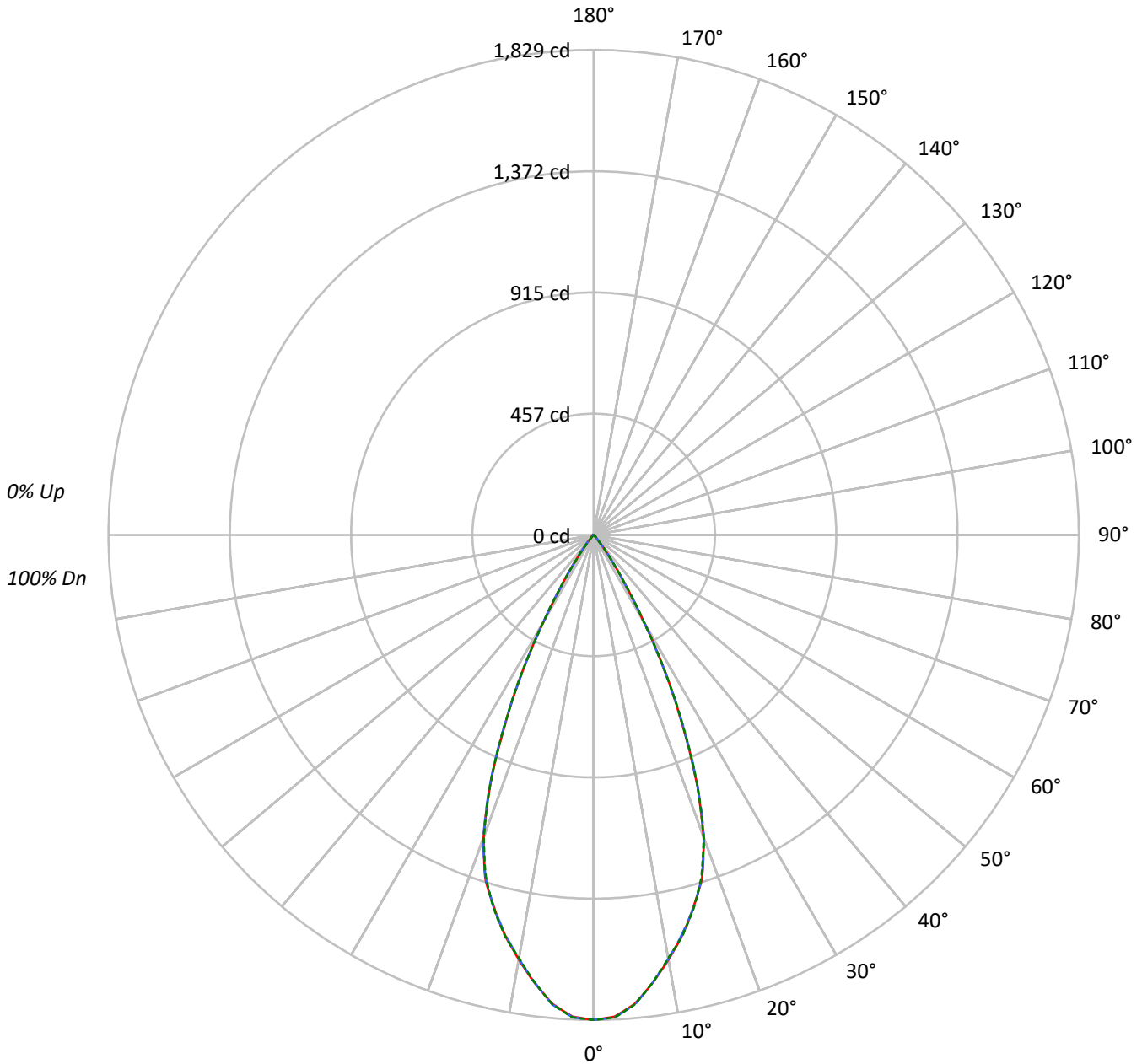
Lumens per Lamp: N/A  
Luminaire Lumens: 1032.4 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.1  
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				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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90	90	90	90
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85	85	85	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	81	81
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	77	77
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73	73	73	73
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70	70	70	70
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67	67	67	67
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64	64	64	64
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61	61	61	61

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

	0°	45°	90°
0°	146320	146320	146320
5°	142623	142807	142727
10°	132054	131867	131648
15°	120365	120506	120680
20°	103251	103566	103166
25°	69989	70854	70731
30°	34669	34890	34761
35°	11583	11651	10958
40°	2642	2579	2224
45°	1030	1143	950
50°	846	884	759
55°	753	753	656
60°	592	656	544
65°	379	454	322
70°	0	70	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.6	15.9
10°-20°	403.6	39.1
20°-30°	359.3	34.8
30°-40°	89.7	8.7
40°-50°	8.5	0.8
50°-60°	4.7	0.5
60°-70°	1.9	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°	927.6	89.9
0°-40°	1017.3	98.5
0°-60°	1030.5	99.8
0°-90°	1032.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1829	1829	1829	1829	1829	
5°	1776	1782	1778	1777	1777	164
15°	1453	1461	1455	1452	1457	404
25°	793	802	803	808	801	358
35°	119	123	119	118	112	89
45°	9	9	10	9	8	9
55°	5	5	5	5	5	5
65°	2	2	2	2	2	2
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°	1829.0	1829.0	1829.0	1829.0	1829.0
2.5°	1818.5	1826.6	1820.9	1821.2	1821.6
5°	1776.0	1782.4	1778.3	1777.0	1777.3
7.5°	1704.0	1709.8	1703.3	1705.7	1703.0
10°	1625.6	1631.4	1623.3	1623.3	1620.6
12.5°	1545.9	1552.0	1542.2	1541.2	1547.6
15°	1453.3	1460.8	1455.0	1452.3	1457.1
17.5°	1359.8	1358.8	1355.4	1353.7	1352.0
20°	1212.8	1218.9	1216.5	1206.4	1211.8
22.5°	1019.6	1019.9	1023.3	1025.0	1020.6
25°	792.9	801.7	802.7	808.1	801.3
27.5°	587.5	589.2	580.1	580.7	587.1
30°	375.3	380.4	377.7	380.4	376.3
32.5°	216.5	220.9	219.3	221.3	221.6
35°	118.6	123.0	119.3	117.6	112.2
37.5°	58.8	58.8	60.1	55.4	52.7
40°	25.3	26.0	24.7	23.3	21.3
42.5°	12.8	12.8	13.5	11.5	11.1
45°	9.1	9.1	10.1	8.8	8.4
47.5°	7.8	7.8	8.4	7.4	7.1
50°	6.8	6.8	7.1	6.4	6.1
52.5°	6.1	6.1	6.4	5.7	5.4
55°	5.4	5.4	5.4	5.1	4.7
57.5°	4.4	4.7	4.7	4.4	4.1
60°	3.7	3.7	4.1	3.7	3.4
62.5°	3.0	3.0	3.0	3.0	2.7
65°	2.0	2.0	2.4	2.0	1.7
67.5°	0.3	0.7	1.7	0.0	0.0
70°	0.0	0.0	0.3	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)