

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: P402408

Luminaire Tested: **LA1MRT52D010TR509027SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402408  
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: LA1MRT52D010TR509027SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

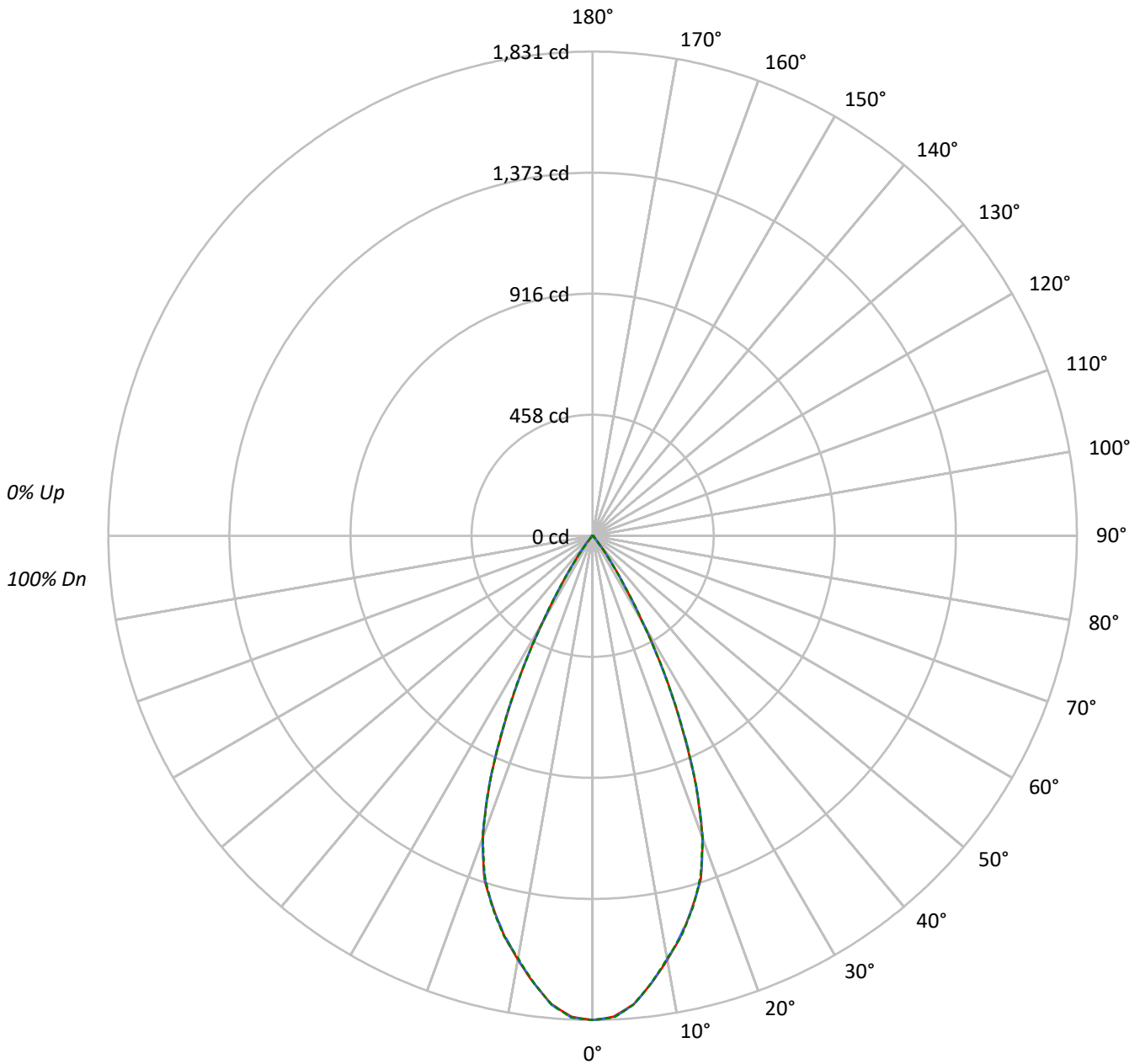
Lumens per Lamp: N/A  
Luminaire Lumens: 1033.6 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P402408

CATALOG NUMBER: LA1MRT52D010TR509027SC1MW

### 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°	146504	146504	146504
5°	142799	142984	142904
10°	132217	132030	131810
15°	120514	120655	120829
20°	103378	103693	103293
25°	70078	70943	70819
30°	34715	34937	34807
35°	11592	11661	10967
40°	2653	2579	2224
45°	1030	1143	962
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°	164.8	15.9
10°-20°	404.1	39.1
20°-30°	359.8	34.8
30°-40°	89.8	8.7
40°-50°	8.6	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°	928.7	89.9
0°-40°	1018.5	98.5
0°-60°	1031.8	99.8
0°-90°	1033.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1778	1785	1780	1779	1780	165
15°	1455	1463	1457	1454	1459	404
25°	794	803	804	809	802	359
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°	1831.3	1831.3	1831.3	1831.3	1831.3
2.5°	1820.8	1828.9	1823.1	1823.5	1823.8
5°	1778.2	1784.6	1780.5	1779.2	1779.5
7.5°	1706.1	1711.9	1705.4	1707.8	1705.1
10°	1627.6	1633.4	1625.3	1625.3	1622.6
12.5°	1547.8	1553.9	1544.1	1543.1	1549.5
15°	1455.1	1462.6	1456.8	1454.1	1458.9
17.5°	1361.4	1360.4	1357.0	1355.4	1353.7
20°	1214.3	1220.4	1218.0	1207.9	1213.3
22.5°	1020.8	1021.2	1024.5	1026.2	1021.8
25°	793.9	802.7	803.7	809.1	802.3
27.5°	588.2	589.9	580.8	581.4	587.9
30°	375.8	380.9	378.2	380.9	376.8
32.5°	216.8	221.2	219.5	221.6	221.9
35°	118.7	123.1	119.4	117.7	112.3
37.5°	58.9	58.9	60.2	55.5	52.8
40°	25.4	26.0	24.7	23.3	21.3
42.5°	12.9	12.9	13.5	11.5	11.2
45°	9.1	9.1	10.1	8.8	8.5
47.5°	7.8	7.8	8.5	7.4	7.1
50°	6.8	6.8	7.1	6.4	6.1
52.5°	6.1	6.1	6.4	5.8	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)