

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: P402522

Luminaire Tested: **LD1MRT52D010TR509030MW1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402522  
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: LD1MRT52D010TR509030MW1MW  
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

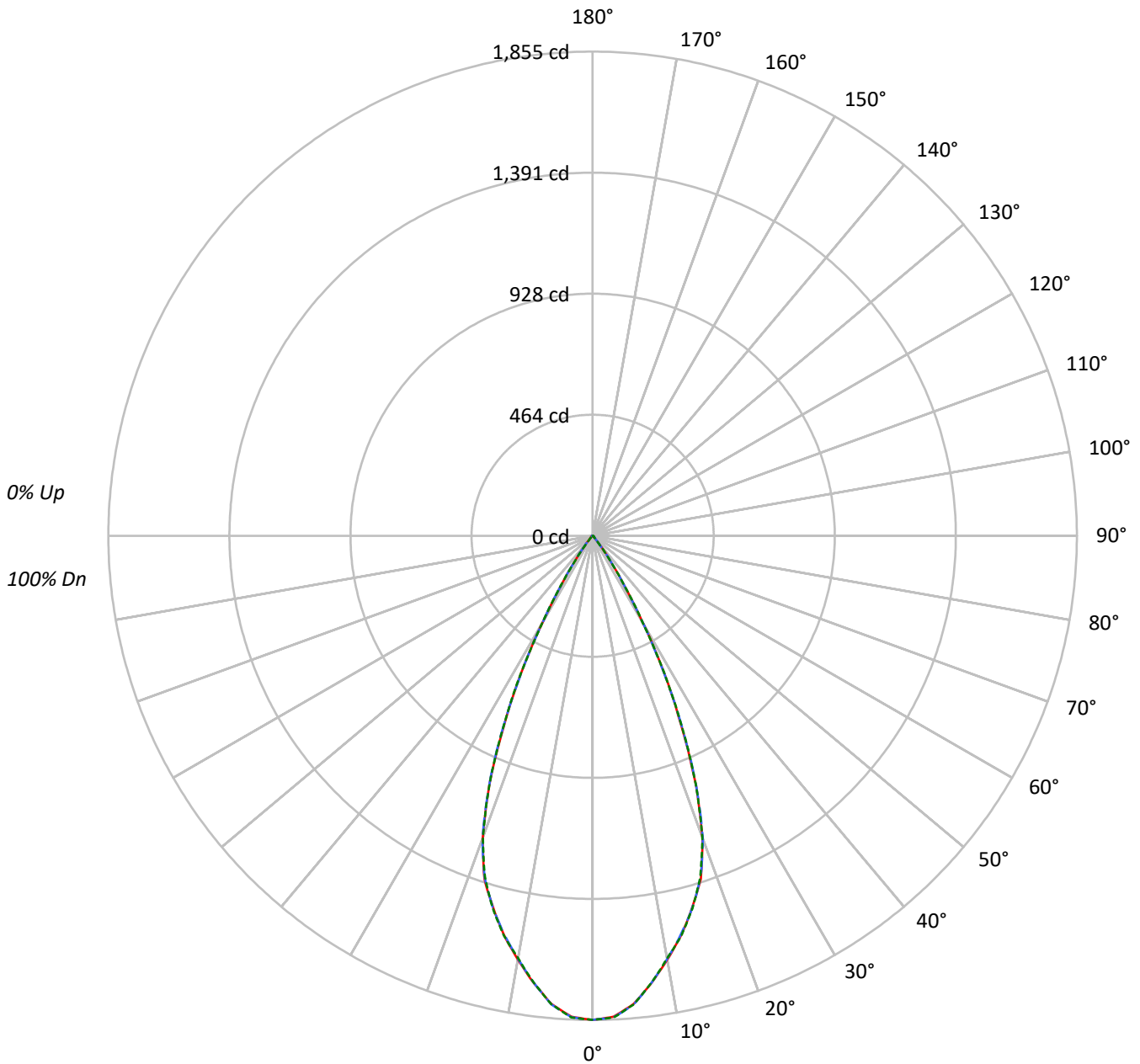
Lumens per Lamp: N/A  
Luminaire Lumens: 1047.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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									
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°	148384	148384	148384
5°	144630	144823	144743
10°	133922	133727	133508
15°	122071	122212	122378
20°	104706	105030	104621
25°	70978	71852	71728
30°	35158	35380	35260
35°	11749	11807	11104
40°	2684	2611	2256
45°	1052	1165	973
50°	859	896	772
55°	767	767	669
60°	608	656	544
65°	398	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°	167.0	15.9
10°-20°	409.3	39.1
20°-30°	364.4	34.8
30°-40°	91.0	8.7
40°-50°	8.7	0.8
50°-60°	4.8	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°	940.7	89.8
0°-40°	1031.6	98.5
0°-60°	1045.1	99.8
0°-90°	1047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1801	1808	1803	1802	1802	167
15°	1474	1481	1476	1473	1478	409
25°	804	813	814	820	813	363
35°	120	125	121	119	114	90
45°	9	9	10	9	9	9
55°	6	6	6	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°	1854.8	1854.8	1854.8	1854.8	1854.8
2.5°	1844.2	1852.4	1846.6	1847.0	1847.3
5°	1801.0	1807.6	1803.4	1802.1	1802.4
7.5°	1728.1	1733.9	1727.4	1729.8	1727.0
10°	1648.6	1654.4	1646.2	1646.2	1643.5
12.5°	1567.7	1573.9	1564.0	1562.9	1569.4
15°	1473.9	1481.4	1475.6	1472.8	1477.6
17.5°	1379.0	1377.9	1374.5	1372.8	1371.1
20°	1229.9	1236.1	1233.7	1223.4	1228.9
22.5°	1034.0	1034.3	1037.7	1039.4	1035.0
25°	804.1	813.0	814.0	819.5	812.6
27.5°	595.8	597.5	588.2	588.9	595.4
30°	380.6	385.8	383.0	385.8	381.7
32.5°	219.6	224.1	222.3	224.4	224.7
35°	120.3	124.7	120.9	119.2	113.7
37.5°	59.6	59.6	61.0	56.2	53.4
40°	25.7	26.4	25.0	23.6	21.6
42.5°	13.0	13.0	13.7	11.6	11.3
45°	9.3	9.3	10.3	8.9	8.6
47.5°	7.9	7.9	8.6	7.5	7.2
50°	6.9	6.9	7.2	6.5	6.2
52.5°	6.2	6.2	6.5	5.8	5.5
55°	5.5	5.5	5.5	5.1	4.8
57.5°	4.5	4.8	4.8	4.5	4.1
60°	3.8	3.8	4.1	3.8	3.4
62.5°	3.1	3.1	3.1	3.1	2.7
65°	2.1	2.1	2.4	2.1	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)