

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: P402405

Luminaire Tested: **LA1MRT52D010TR509027MMS1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402405  
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: LA1MRT52D010TR509027MMS1MW  
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

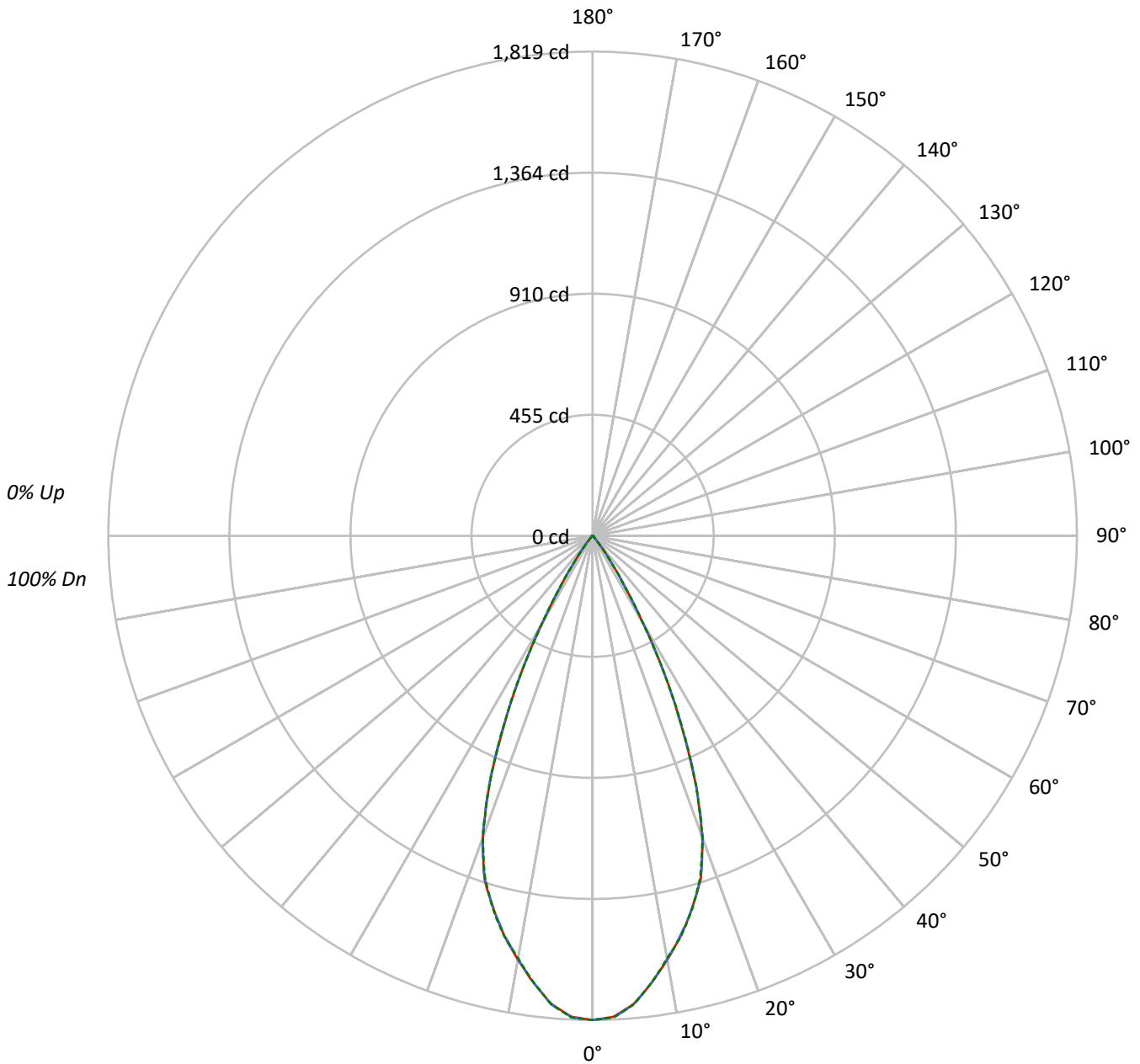
Lumens per Lamp: N/A  
Luminaire Lumens: 1026.6 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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																			
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°	145512	145512	145512
5°	141828	142020	141940
10°	131323	131136	130917
15°	119703	119843	120009
20°	102680	102995	102595
25°	69601	70457	70342
30°	34475	34696	34576
35°	11514	11583	10889
40°	2632	2559	2214
45°	1030	1143	950
50°	834	884	747
55°	753	753	656
60°	592	640	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°	163.7	15.9
10°-20°	401.4	39.1
20°-30°	357.3	34.8
30°-40°	89.2	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°	922.4	89.8
0°-40°	1011.6	98.5
0°-60°	1024.8	99.8
0°-90°	1026.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1766	1772	1768	1767	1768	164
15°	1445	1453	1447	1444	1449	402
25°	788	797	798	804	797	356
35°	118	122	119	117	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°	1818.9	1818.9	1818.9	1818.9	1818.9
2.5°	1808.4	1816.5	1810.8	1811.1	1811.5
5°	1766.1	1772.5	1768.5	1767.1	1767.5
7.5°	1694.6	1700.3	1693.9	1696.2	1693.5
10°	1616.6	1622.3	1614.3	1614.3	1611.6
12.5°	1537.3	1543.4	1533.6	1532.6	1539.0
15°	1445.3	1452.7	1447.0	1444.3	1449.0
17.5°	1352.2	1351.2	1347.8	1346.2	1344.5
20°	1206.1	1212.1	1209.8	1199.7	1205.1
22.5°	1013.9	1014.2	1017.6	1019.3	1014.9
25°	788.5	797.2	798.2	803.6	796.9
27.5°	584.2	585.9	576.8	577.5	583.9
30°	373.2	378.3	375.6	378.3	374.3
32.5°	215.3	219.7	218.0	220.0	220.4
35°	117.9	122.3	118.6	116.9	111.5
37.5°	58.5	58.5	59.8	55.1	52.4
40°	25.2	25.9	24.5	23.2	21.2
42.5°	12.8	12.8	13.4	11.4	11.1
45°	9.1	9.1	10.1	8.7	8.4
47.5°	7.7	7.7	8.4	7.4	7.1
50°	6.7	6.7	7.1	6.4	6.0
52.5°	6.0	6.0	6.4	5.7	5.4
55°	5.4	5.4	5.4	5.0	4.7
57.5°	4.4	4.7	4.7	4.4	4.0
60°	3.7	3.7	4.0	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)