

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: P402338

Luminaire Tested: **LA1MRT102D010TR509040MW1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402338  
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: LA1MRT102D010TR509040MW1MW  
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

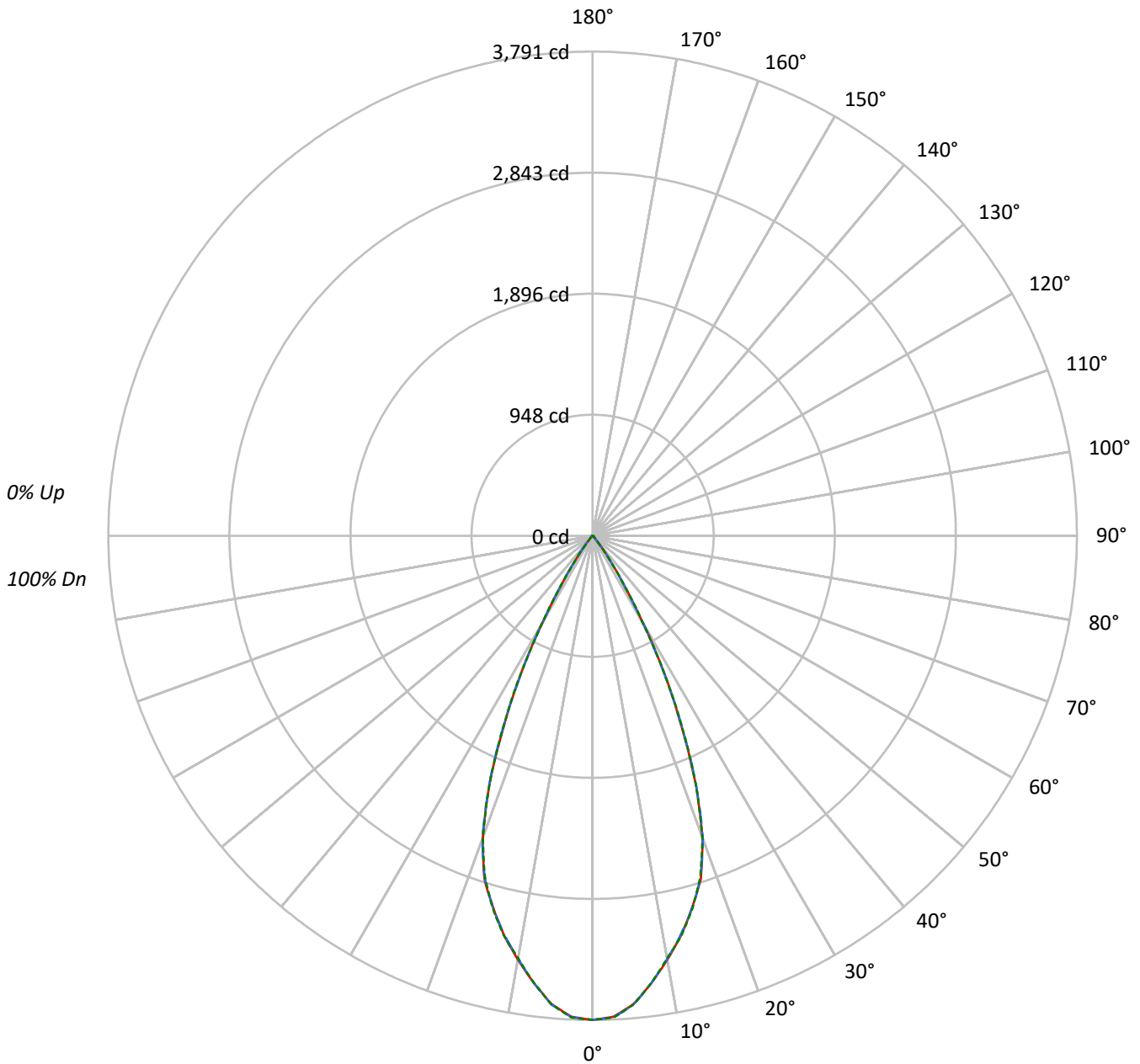
Lumens per Lamp: N/A  
Luminaire Lumens: 2139.6 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.5  
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°	303248	303248	303248
5°	295580	295974	295805
10°	273686	273288	272833
15°	249460	249750	250098
20°	213985	214640	213806
25°	145045	146837	146590
30°	71859	72312	72053
35°	24005	24142	22697
40°	5483	5336	4605
45°	2138	2376	1980
50°	1742	1830	1568
55°	1562	1562	1367
60°	1232	1344	1120
65°	795	928	663
70°	0	164	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.2	15.9
10°-20°	836.5	39.1
20°-30°	744.7	34.8
30°-40°	185.9	8.7
40°-50°	17.7	0.8
50°-60°	9.7	0.5
60°-70°	3.9	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°	1922.4	89.8
0°-40°	2108.3	98.5
0°-60°	2135.7	99.8
0°-90°	2139.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2139.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3791	3791	3791	3791	3791	
5°	3681	3694	3686	3683	3684	341
15°	3012	3027	3016	3010	3020	837
25°	1643	1661	1664	1675	1661	742
35°	246	255	247	244	232	185
45°	19	19	21	18	18	18
55°	11	11	11	10	10	10
65°	4	4	5	4	4	4
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°	3790.6	3790.6	3790.6	3790.6	3790.6
2.5°	3768.9	3785.7	3773.8	3774.5	3775.2
5°	3680.7	3694.0	3685.6	3682.8	3683.5
7.5°	3531.5	3543.4	3530.1	3535.0	3529.4
10°	3369.1	3381.0	3364.2	3364.2	3358.6
12.5°	3203.9	3216.5	3196.2	3194.1	3207.4
15°	3012.0	3027.4	3015.5	3009.9	3019.7
17.5°	2818.1	2816.0	2809.0	2805.5	2802.0
20°	2513.5	2526.1	2521.2	2500.2	2511.4
22.5°	2113.0	2113.7	2120.7	2124.2	2115.1
25°	1643.2	1661.4	1663.5	1674.7	1660.7
27.5°	1217.6	1221.1	1202.1	1203.5	1216.9
30°	777.9	788.4	782.8	788.4	780.0
32.5°	448.8	457.9	454.4	458.6	459.3
35°	245.8	254.9	247.2	243.7	232.4
37.5°	121.8	121.8	124.6	114.8	109.2
40°	52.5	53.9	51.1	48.3	44.1
42.5°	26.6	26.6	28.0	23.8	23.1
45°	18.9	18.9	21.0	18.2	17.5
47.5°	16.1	16.1	17.5	15.4	14.7
50°	14.0	14.0	14.7	13.3	12.6
52.5°	12.6	12.6	13.3	11.9	11.2
55°	11.2	11.2	11.2	10.5	9.8
57.5°	9.1	9.8	9.8	9.1	8.4
60°	7.7	7.7	8.4	7.7	7.0
62.5°	6.3	6.3	6.3	6.3	5.6
65°	4.2	4.2	4.9	4.2	3.5
67.5°	0.7	1.4	3.5	0.0	0.0
70°	0.0	0.0	0.7	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)