

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: P402406

Luminaire Tested: **LA1MRT52D010TR509027MW1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402406
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: LA1MRT52D010TR509027MW1MW
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

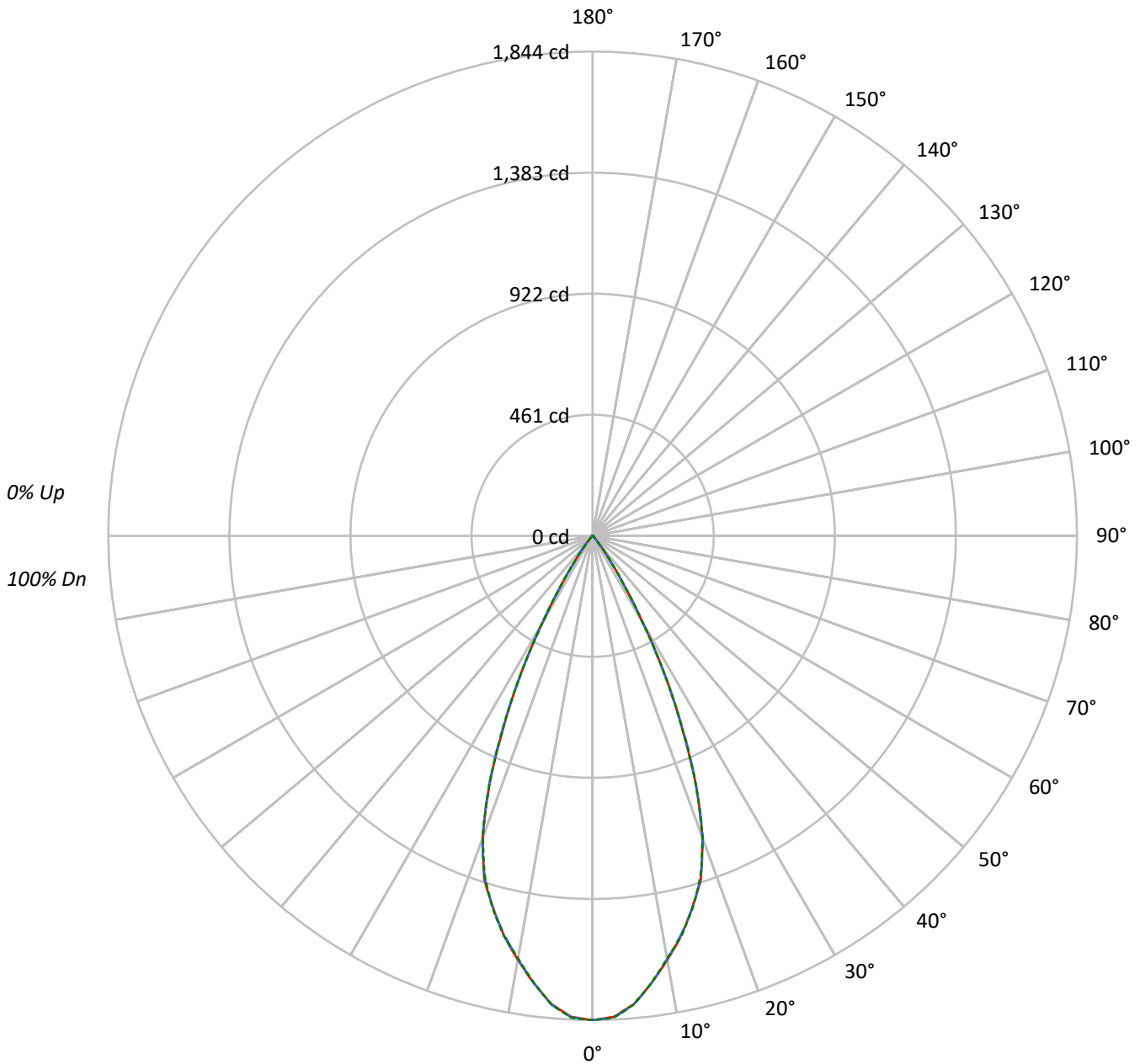
Lumens per Lamp: N/A
Luminaire Lumens: 1041.1 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P402406

CATALOG NUMBER: LA1MRT52D010TR509027MW1MW

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°	147560	147560	147560
5°	143827	144020	143940
10°	133175	132980	132761
15°	121392	121533	121699
20°	104128	104443	104042
25°	70581	71455	71331
30°	34964	35186	35057
35°	11680	11749	11046
40°	2673	2600	2245
45°	1041	1154	962
50°	846	896	759
55°	767	767	669
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°	166.0	15.9
10°-20°	407.0	39.1
20°-30°	362.4	34.8
30°-40°	90.5	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°	935.5	89.8
0°-40°	1025.9	98.5
0°-60°	1039.3	99.8
0°-90°	1041.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1791	1798	1793	1792	1792	166
15°	1466	1473	1467	1465	1469	407
25°	800	808	810	815	808	361
35°	120	124	120	119	113	90
45°	9	9	10	9	8	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°	1844.5	1844.5	1844.5	1844.5	1844.5
2.5°	1834.0	1842.1	1836.4	1836.7	1837.0
5°	1791.0	1797.5	1793.4	1792.1	1792.4
7.5°	1718.5	1724.3	1717.8	1720.2	1717.5
10°	1639.4	1645.2	1637.0	1637.0	1634.3
12.5°	1559.0	1565.2	1555.3	1554.3	1560.7
15°	1465.7	1473.2	1467.4	1464.7	1469.4
17.5°	1371.3	1370.3	1366.9	1365.2	1363.5
20°	1223.1	1229.2	1226.8	1216.6	1222.1
22.5°	1028.2	1028.6	1032.0	1033.7	1029.2
25°	799.6	808.5	809.5	814.9	808.1
27.5°	592.5	594.2	585.0	585.7	592.1
30°	378.5	383.6	380.9	383.6	379.5
32.5°	218.4	222.8	221.1	223.2	223.5
35°	119.6	124.0	120.3	118.6	113.1
37.5°	59.3	59.3	60.6	55.9	53.1
40°	25.6	26.2	24.9	23.5	21.5
42.5°	12.9	12.9	13.6	11.6	11.2
45°	9.2	9.2	10.2	8.9	8.5
47.5°	7.8	7.8	8.5	7.5	7.2
50°	6.8	6.8	7.2	6.5	6.1
52.5°	6.1	6.1	6.5	5.8	5.5
55°	5.5	5.5	5.5	5.1	4.8
57.5°	4.4	4.8	4.8	4.4	4.1
60°	3.7	3.7	4.1	3.7	3.4
62.5°	3.1	3.1	3.1	3.1	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)