

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: P402373

Luminaire Tested: **LA1MRT152D010TR509027MMS1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402373
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: LA1MRT152D010TR509027MMS1MW
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

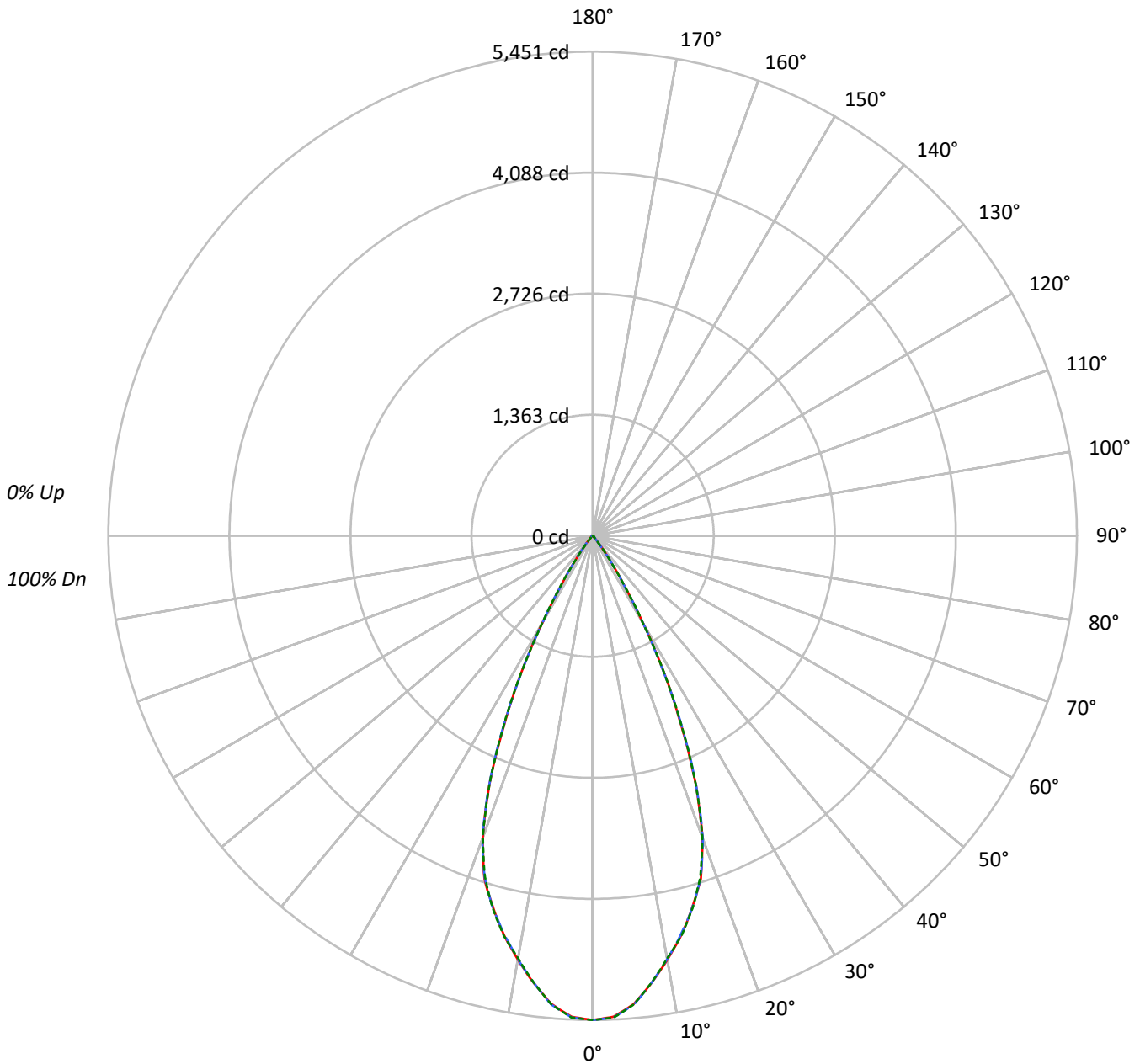
Lumens per Lamp: N/A
Luminaire Lumens: 3077.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 34.2
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: P402373

CATALOG NUMBER: LA1MRT152D010TR509027MMS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P402373

CATALOG NUMBER: LA1MRT152D010TR509027MMS1MW

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°	436112	436112	436112
5°	425081	425643	425402
10°	393595	393027	392369
15°	358760	359174	359679
20°	307743	308679	307479
25°	208600	211177	210824
30°	103341	103988	103618
35°	34514	34709	32648
40°	7885	7676	6621
45°	3077	3417	2851
50°	2502	2626	2253
55°	2246	2246	1967
60°	1776	1936	1616
65°	1136	1325	946
70°	0	234	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P402373

CATALOG NUMBER: LA1MRT152D010TR509027MMS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.7	15.9
10°-20°	1203.0	39.1
20°-30°	1071.0	34.8
30°-40°	267.3	8.7
40°-50°	25.5	0.8
50°-60°	13.9	0.5
60°-70°	5.6	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°	2764.7	89.8
0°-40°	3032.0	98.5
0°-60°	3071.4	99.8
0°-90°	3077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5451	5451	5451	5451	5451	
5°	5293	5312	5300	5296	5297	490
15°	4332	4354	4337	4329	4343	1203
25°	2363	2389	2392	2408	2388	1067
35°	353	366	355	350	334	266
45°	27	27	30	26	25	26
55°	16	16	16	15	14	14
65°	6	6	7	6	5	5
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P402373

CATALOG NUMBER: LA1MRT152D010TR509027MMS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5451.4	5451.4	5451.4	5451.4	5451.4
2.5°	5420.1	5444.3	5427.2	5428.2	5429.2
5°	5293.3	5312.4	5300.3	5296.3	5297.3
7.5°	5078.8	5095.9	5076.8	5083.8	5075.8
10°	4845.2	4862.3	4838.2	4838.2	4830.1
12.5°	4607.6	4625.7	4596.5	4593.5	4612.6
15°	4331.7	4353.8	4336.7	4328.7	4342.8
17.5°	4052.8	4049.8	4039.7	4034.6	4029.6
20°	3614.8	3632.9	3625.8	3595.6	3611.7
22.5°	3038.8	3039.8	3049.9	3054.9	3041.8
25°	2363.2	2389.4	2392.4	2408.5	2388.4
27.5°	1751.0	1756.0	1728.8	1730.9	1750.0
30°	1118.7	1133.8	1125.7	1133.8	1121.7
32.5°	645.4	658.5	653.5	659.5	660.5
35°	353.4	366.5	355.4	350.4	334.3
37.5°	175.2	175.2	179.2	165.1	157.1
40°	75.5	77.5	73.5	69.5	63.4
42.5°	38.3	38.3	40.3	34.2	33.2
45°	27.2	27.2	30.2	26.2	25.2
47.5°	23.2	23.2	25.2	22.2	21.1
50°	20.1	20.1	21.1	19.1	18.1
52.5°	18.1	18.1	19.1	17.1	16.1
55°	16.1	16.1	16.1	15.1	14.1
57.5°	13.1	14.1	14.1	13.1	12.1
60°	11.1	11.1	12.1	11.1	10.1
62.5°	9.1	9.1	9.1	9.1	8.1
65°	6.0	6.0	7.0	6.0	5.0
67.5°	1.0	2.0	5.0	0.0	0.0
70°	0.0	0.0	1.0	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)