

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: P402054

Luminaire Tested: **LA1MR152D010 EA1M152509027MW1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402054  
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: LA1MR152D010 EA1M152509027MW1MW  
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

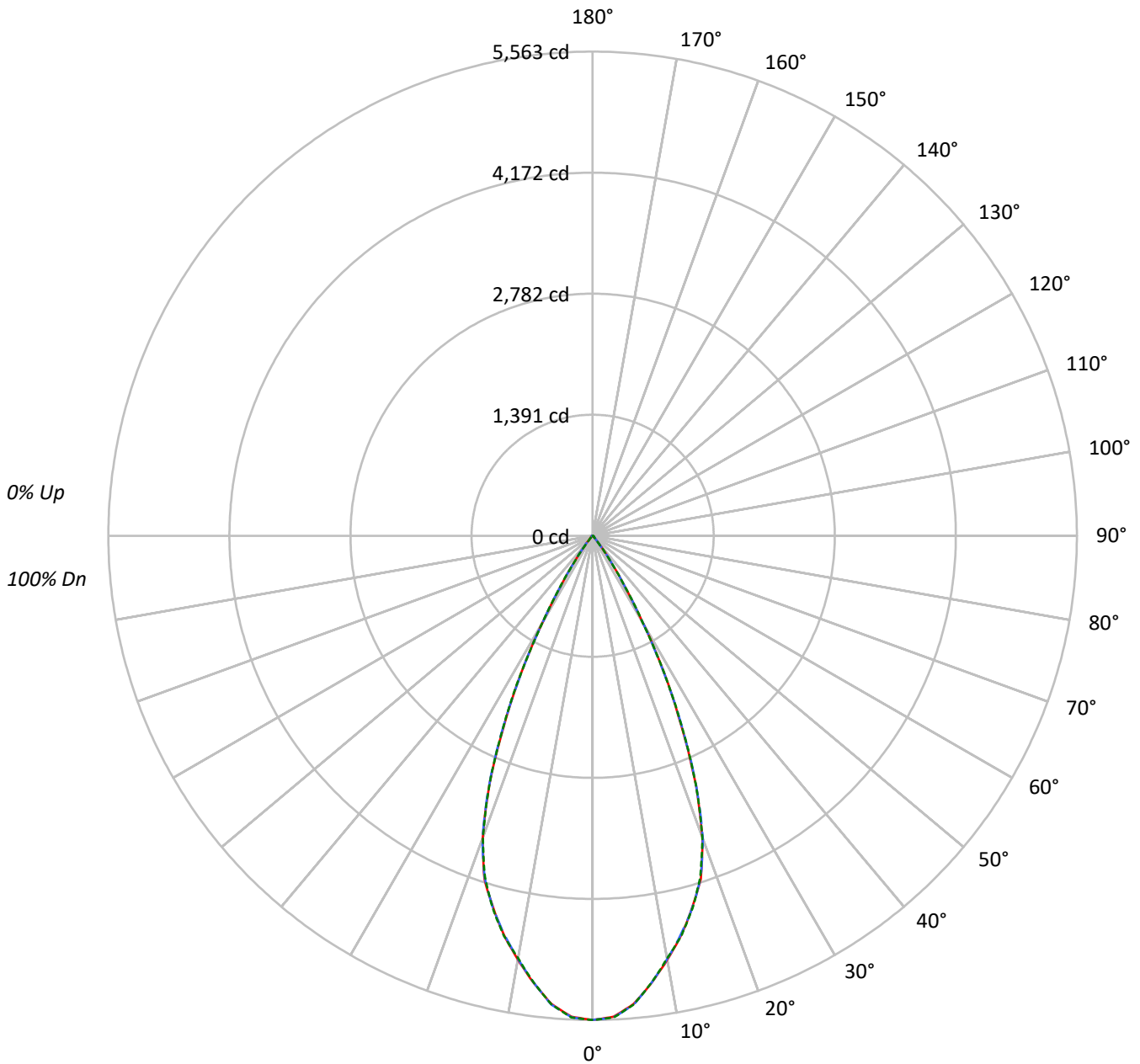
Lumens per Lamp: N/A  
Luminaire Lumens: 3140.0 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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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°	445040	445040	445040
5°	433778	434356	434115
10°	401654	401069	400403
15°	366106	366529	367042
20°	314043	315005	313779
25°	212872	215503	215141
30°	105456	106121	105743
35°	35227	35422	33312
40°	8052	7832	6757
45°	3134	3485	2908
50°	2564	2688	2302
55°	2287	2287	2008
60°	1808	1968	1648
65°	1174	1363	965
70°	0	234	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.8	15.9
10°-20°	1227.6	39.1
20°-30°	1092.9	34.8
30°-40°	272.8	8.7
40°-50°	26.0	0.8
50°-60°	14.2	0.5
60°-70°	5.7	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°	2821.3	89.8
0°-40°	3094.1	98.5
0°-60°	3134.3	99.8
0°-90°	3140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5563	5563	5563	5563	5563	
5°	5402	5421	5409	5405	5406	500
15°	4420	4443	4426	4417	4432	1228
25°	2412	2438	2441	2458	2437	1089
35°	361	374	363	358	341	271
45°	28	28	31	27	26	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5563.0	5563.0	5563.0	5563.0	5563.0
2.5°	5531.1	5555.8	5538.3	5539.3	5540.4
5°	5401.6	5421.2	5408.8	5404.7	5405.8
7.5°	5182.8	5200.3	5180.7	5187.9	5179.7
10°	4944.4	4961.9	4937.2	4937.2	4929.0
12.5°	4701.9	4720.4	4690.6	4687.5	4707.0
15°	4420.4	4443.0	4425.5	4417.3	4431.7
17.5°	4135.7	4132.7	4122.4	4117.3	4112.1
20°	3688.8	3707.3	3700.1	3669.3	3685.7
22.5°	3101.0	3102.1	3112.3	3117.5	3104.1
25°	2411.6	2438.3	2441.4	2457.8	2437.3
27.5°	1786.8	1792.0	1764.2	1766.3	1785.8
30°	1141.6	1157.0	1148.8	1157.0	1144.7
32.5°	658.6	672.0	666.9	673.0	674.1
35°	360.7	374.0	362.7	357.6	341.1
37.5°	178.8	178.8	182.9	168.5	160.3
40°	77.1	79.1	75.0	70.9	64.7
42.5°	39.0	39.0	41.1	34.9	33.9
45°	27.7	27.7	30.8	26.7	25.7
47.5°	23.6	23.6	25.7	22.6	21.6
50°	20.6	20.6	21.6	19.5	18.5
52.5°	18.5	18.5	19.5	17.5	16.4
55°	16.4	16.4	16.4	15.4	14.4
57.5°	13.4	14.4	14.4	13.4	12.3
60°	11.3	11.3	12.3	11.3	10.3
62.5°	9.2	9.2	9.2	9.2	8.2
65°	6.2	6.2	7.2	6.2	5.1
67.5°	1.0	2.1	5.1	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



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







(END OF REPORT)