

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: P402128

Luminaire Tested: **LA1MR052D010 EA1M52509035SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402128  
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: LA1MR052D010 EA1M52509035SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

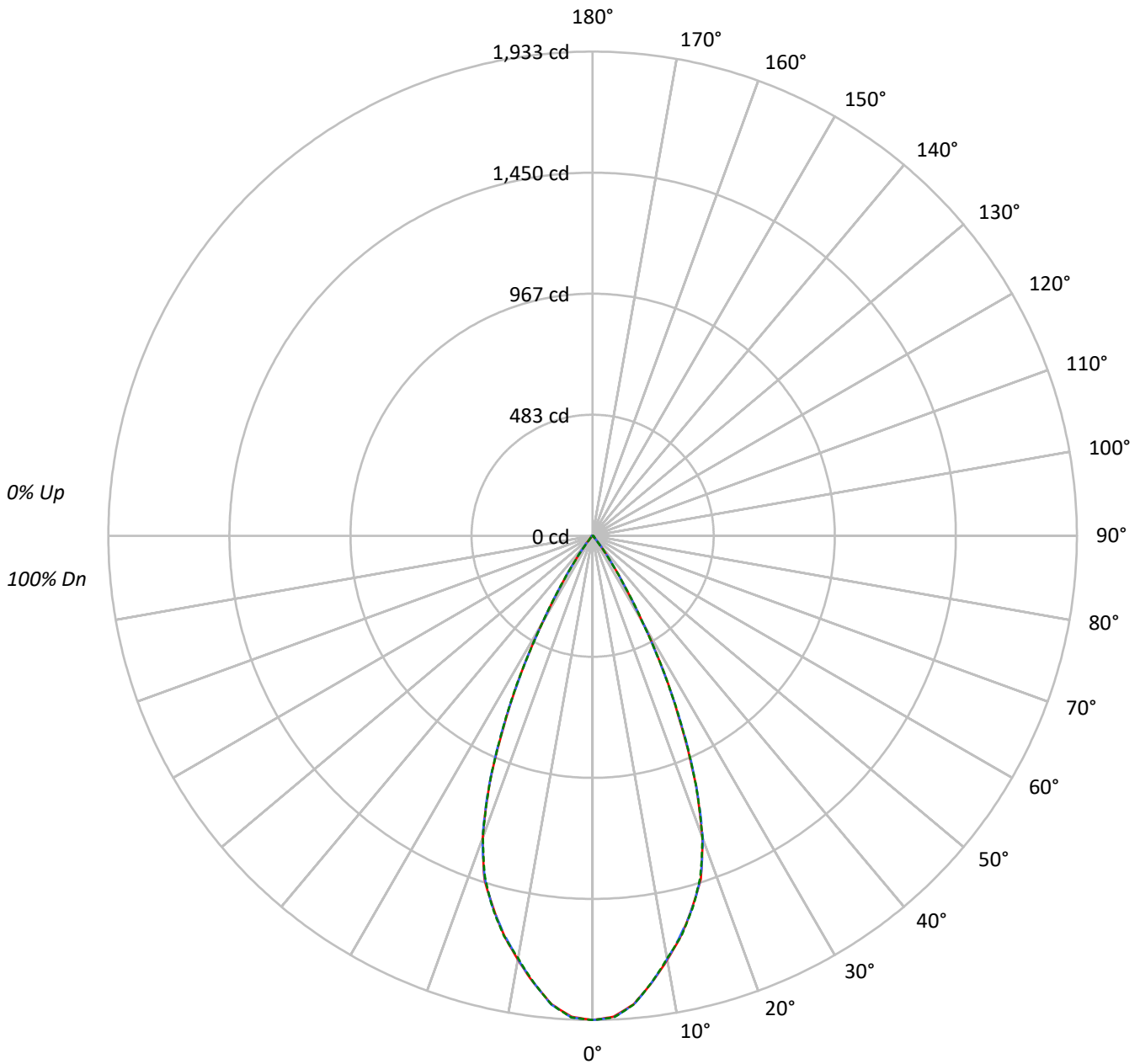
Lumens per Lamp: N/A  
Luminaire Lumens: 1091.1 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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°	154648	154648	154648
5°	150741	150942	150854
10°	139576	139373	139138
15°	127223	127372	127546
20°	109125	109465	109040
25°	73970	74888	74756
30°	36646	36876	36747
35°	12237	12305	11573
40°	2799	2726	2350
45°	1086	1211	1007
50°	884	933	797
55°	795	795	697
60°	624	688	576
65°	398	473	341
70°	0	94	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.0	15.9
10°-20°	426.6	39.1
20°-30°	379.8	34.8
30°-40°	94.8	8.7
40°-50°	9.0	0.8
50°-60°	4.9	0.5
60°-70°	2.0	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°	980.4	89.9
0°-40°	1075.2	98.5
0°-60°	1089.2	99.8
0°-90°	1091.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1933	1933	1933	1933	1933	
5°	1877	1884	1880	1878	1878	174
15°	1536	1544	1538	1535	1540	427
25°	838	847	848	854	847	378
35°	125	130	126	124	118	94
45°	10	10	11	9	9	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°	1933.1	1933.1	1933.1	1933.1	1933.1
2.5°	1922.1	1930.6	1924.6	1924.9	1925.3
5°	1877.1	1883.8	1879.6	1878.1	1878.5
7.5°	1801.0	1807.1	1800.3	1802.8	1799.9
10°	1718.2	1724.2	1715.7	1715.7	1712.8
12.5°	1633.9	1640.3	1630.0	1628.9	1635.7
15°	1536.1	1543.9	1537.9	1535.0	1540.0
17.5°	1437.2	1436.1	1432.5	1430.7	1429.0
20°	1281.8	1288.3	1285.8	1275.1	1280.8
22.5°	1077.6	1078.0	1081.5	1083.3	1078.7
25°	838.0	847.3	848.4	854.1	846.9
27.5°	620.9	622.7	613.1	613.8	620.6
30°	396.7	402.0	399.2	402.0	397.8
32.5°	228.9	233.5	231.7	233.9	234.2
35°	125.3	130.0	126.0	124.3	118.5
37.5°	62.1	62.1	63.6	58.6	55.7
40°	26.8	27.5	26.1	24.6	22.5
42.5°	13.6	13.6	14.3	12.1	11.8
45°	9.6	9.6	10.7	9.3	8.9
47.5°	8.2	8.2	8.9	7.9	7.5
50°	7.1	7.1	7.5	6.8	6.4
52.5°	6.4	6.4	6.8	6.1	5.7
55°	5.7	5.7	5.7	5.4	5.0
57.5°	4.6	5.0	5.0	4.6	4.3
60°	3.9	3.9	4.3	3.9	3.6
62.5°	3.2	3.2	3.2	3.2	2.9
65°	2.1	2.1	2.5	2.1	1.8
67.5°	0.4	0.7	1.8	0.0	0.0
70°	0.0	0.0	0.4	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)