

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: P401984

Luminaire Tested: **LA1MR102D010 EA1M102509035SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P401984  
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: LA1MR102D010 EA1M102509035SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

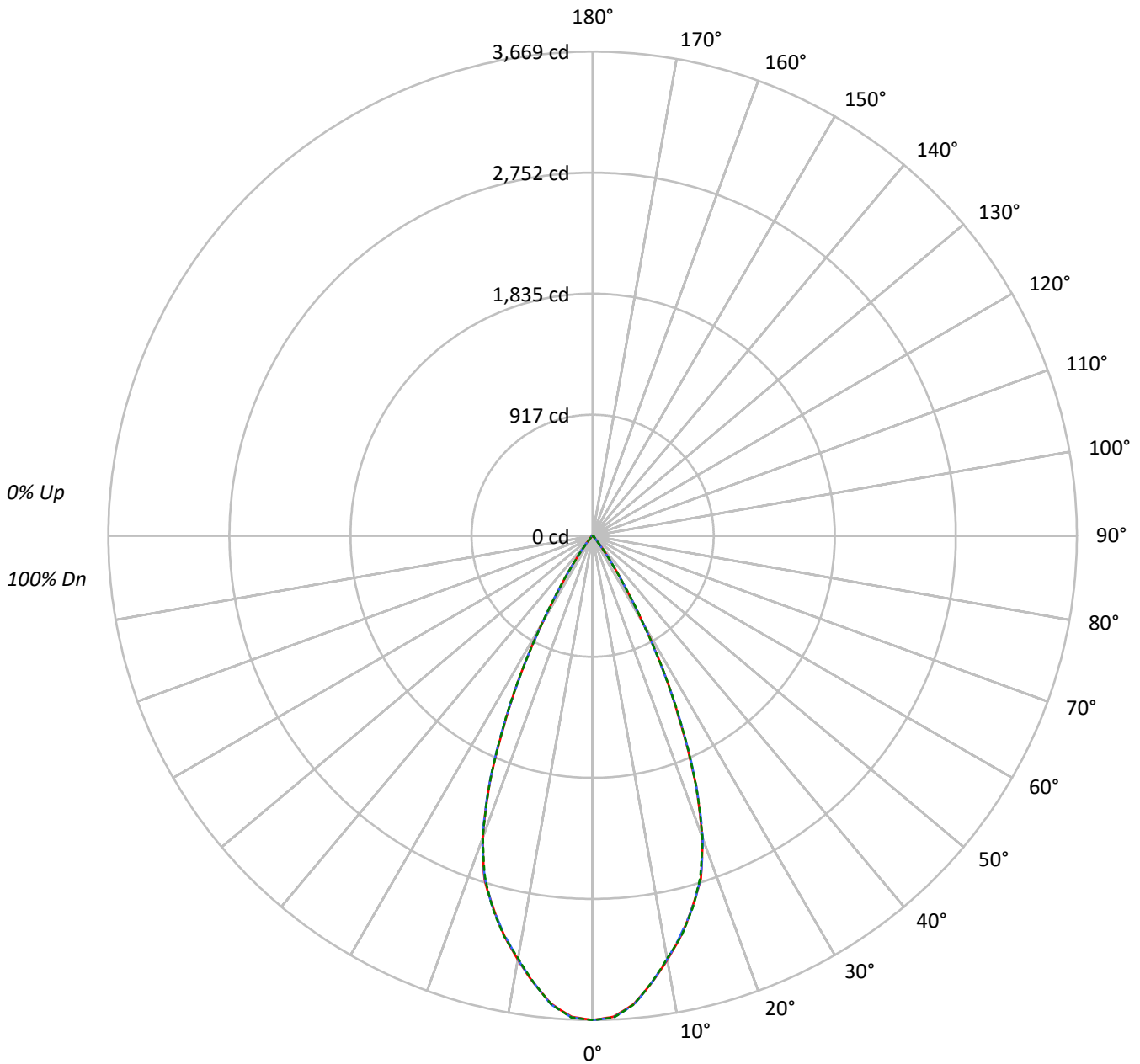
Lumens per Lamp: N/A  
Luminaire Lumens: 2071.1 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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					20					
RC	80					70					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°	293536	293536	293536
5°	286112	286490	286329
10°	264920	264539	264092
15°	241476	241749	242089
20°	207131	207770	206961
25°	140402	142141	141903
30°	69550	69993	69744
35°	23234	23361	21974
40°	5305	5169	4459
45°	2070	2297	1912
50°	1693	1767	1518
55°	1506	1506	1325
60°	1200	1296	1088
65°	776	890	644
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°	330.3	15.9
10°-20°	809.7	39.1
20°-30°	720.8	34.8
30°-40°	179.9	8.7
40°-50°	17.1	0.8
50°-60°	9.4	0.5
60°-70°	3.8	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°	1860.8	89.8
0°-40°	2040.8	98.5
0°-60°	2067.3	99.8
0°-90°	2071.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2071.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3669	3669	3669	3669	3669	
5°	3563	3576	3568	3565	3566	330
15°	2916	2930	2919	2914	2923	810
25°	1591	1608	1610	1621	1608	718
35°	238	247	239	236	225	179
45°	18	18	20	18	17	17
55°	11	11	11	10	10	9
65°	4	4	5	4	3	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°	3669.2	3669.2	3669.2	3669.2	3669.2
2.5°	3648.2	3664.4	3652.9	3653.6	3654.3
5°	3562.8	3575.7	3567.5	3564.8	3565.5
7.5°	3418.4	3429.9	3417.1	3421.8	3416.4
10°	3261.2	3272.7	3256.5	3256.5	3251.0
12.5°	3101.3	3113.5	3093.8	3091.8	3104.6
15°	2915.6	2930.5	2918.9	2913.5	2923.0
17.5°	2727.8	2725.8	2719.0	2715.6	2712.2
20°	2433.0	2445.2	2440.5	2420.1	2431.0
22.5°	2045.4	2046.0	2052.8	2056.2	2047.4
25°	1590.6	1608.2	1610.3	1621.1	1607.6
27.5°	1178.6	1181.9	1163.6	1165.0	1177.9
30°	752.9	763.1	757.7	763.1	755.0
32.5°	434.4	443.2	439.8	443.9	444.6
35°	237.9	246.7	239.2	235.8	225.0
37.5°	117.9	117.9	120.6	111.1	105.7
40°	50.8	52.2	49.5	46.8	42.7
42.5°	25.8	25.8	27.1	23.0	22.4
45°	18.3	18.3	20.3	17.6	16.9
47.5°	15.6	15.6	16.9	14.9	14.2
50°	13.6	13.6	14.2	12.9	12.2
52.5°	12.2	12.2	12.9	11.5	10.8
55°	10.8	10.8	10.8	10.2	9.5
57.5°	8.8	9.5	9.5	8.8	8.1
60°	7.5	7.5	8.1	7.5	6.8
62.5°	6.1	6.1	6.1	6.1	5.4
65°	4.1	4.1	4.7	4.1	3.4
67.5°	0.7	1.4	3.4	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)