

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: P402024

Luminaire Tested: **LA1MR012D010 EA1M12509027SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402024  
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: LA1MR012D010 EA1M12509027SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

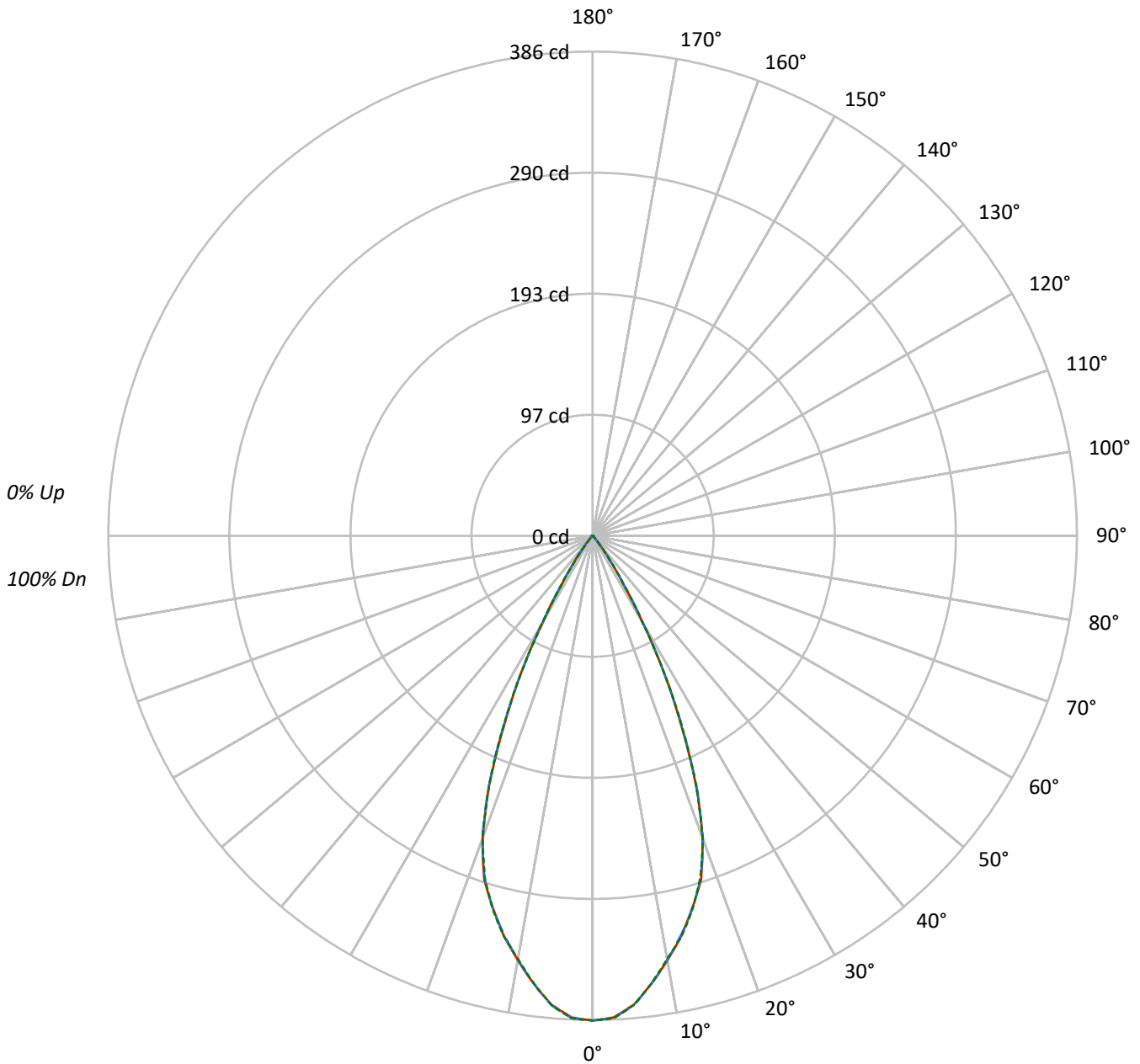
Lumens per Lamp: N/A  
Luminaire Lumens: 218.2 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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°	30920	30920	30920
5°	30139	30179	30163
10°	27912	27871	27823
15°	25435	25468	25501
20°	21820	21888	21803
25°	14794	14971	14953
30°	7325	7372	7344
35°	2451	2461	2315
40°	564	543	470
45°	215	238	204
50°	174	187	162
55°	153	153	139
60°	128	144	112
65°	76	95	76
70°	0	23	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.8	15.9
10°-20°	85.3	39.1
20°-30°	75.9	34.8
30°-40°	19.0	8.7
40°-50°	1.8	0.8
50°-60°	1.0	0.5
60°-70°	0.4	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°	196.0	89.9
0°-40°	215.0	98.5
0°-60°	217.8	99.8
0°-90°	218.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	218.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	375	377	376	376	376	35
15°	307	309	308	307	308	85
25°	168	169	170	171	169	76
35°	25	26	25	25	24	19
45°	2	2	2	2	2	2
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	386.5	386.5	386.5	386.5	386.5
2.5°	384.3	386.0	384.8	384.9	385.0
5°	375.3	376.7	375.8	375.5	375.6
7.5°	360.1	361.3	360.0	360.5	359.9
10°	343.6	344.8	343.1	343.1	342.5
12.5°	326.7	328.0	325.9	325.7	327.1
15°	307.1	308.7	307.5	306.9	307.9
17.5°	287.4	287.2	286.4	286.1	285.7
20°	256.3	257.6	257.1	255.0	256.1
22.5°	215.5	215.5	216.3	216.6	215.7
25°	167.6	169.4	169.6	170.8	169.4
27.5°	124.2	124.5	122.6	122.7	124.1
30°	79.3	80.4	79.8	80.4	79.5
32.5°	45.8	46.7	46.3	46.8	46.8
35°	25.1	26.0	25.2	24.8	23.7
37.5°	12.4	12.4	12.7	11.7	11.1
40°	5.4	5.5	5.2	4.9	4.5
42.5°	2.7	2.7	2.9	2.4	2.4
45°	1.9	1.9	2.1	1.9	1.8
47.5°	1.6	1.6	1.8	1.6	1.5
50°	1.4	1.4	1.5	1.4	1.3
52.5°	1.3	1.3	1.4	1.2	1.1
55°	1.1	1.1	1.1	1.1	1.0
57.5°	0.9	1.0	1.0	0.9	0.9
60°	0.8	0.8	0.9	0.8	0.7
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.4	0.4	0.5	0.4	0.4
67.5°	0.1	0.1	0.4	0.0	0.0
70°	0.0	0.0	0.1	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)