

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: P402032

Luminaire Tested: **LA1MR012D010 EA1M12509035SC1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402032  
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 EA1M12509035SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

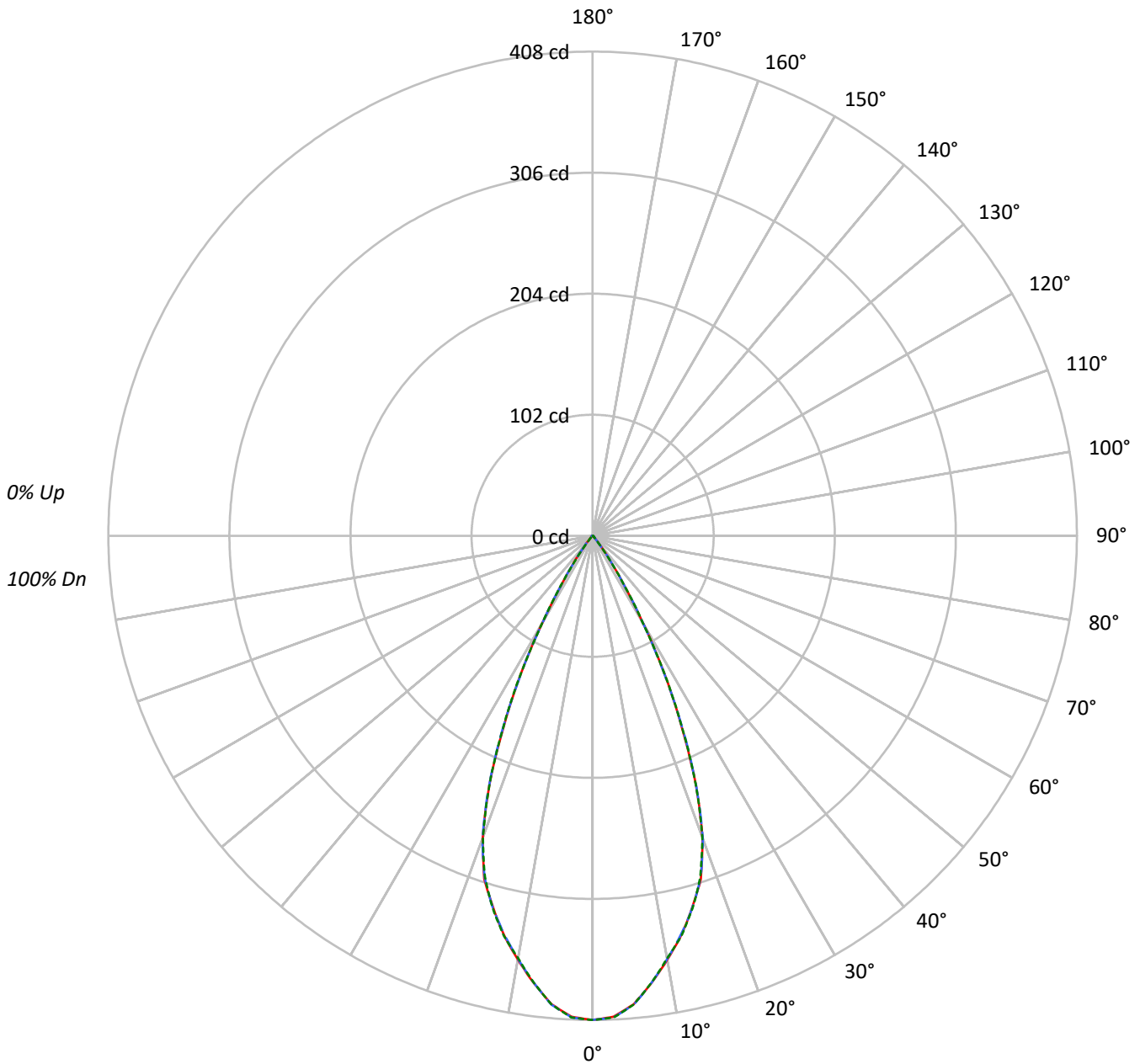
Lumens per Lamp: N/A  
Luminaire Lumens: 230.3 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	63				63															
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°	32640	32640	32640
5°	31817	31857	31841
10°	29464	29415	29366
15°	26851	26884	26925
20°	23037	23105	23012
25°	15615	15809	15783
30°	7732	7787	7760
35°	2588	2598	2442
40°	595	574	491
45°	226	260	215
50°	187	199	174
55°	167	167	153
60°	128	144	128
65°	95	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°	36.7	15.9
10°-20°	90.0	39.1
20°-30°	80.2	34.8
30°-40°	20.0	8.7
40°-50°	1.9	0.8
50°-60°	1.1	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°	206.9	89.8
0°-40°	227.0	98.5
0°-60°	229.9	99.8
0°-90°	230.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	230.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	396	398	397	396	396	37
15°	324	326	325	324	325	90
25°	177	179	179	180	179	80
35°	26	27	27	26	25	20
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°	408.0	408.0	408.0	408.0	408.0
2.5°	405.7	407.5	406.2	406.3	406.4
5°	396.2	397.6	396.7	396.4	396.5
7.5°	380.2	381.4	380.0	380.5	379.9
10°	362.7	364.0	362.1	362.1	361.5
12.5°	344.9	346.2	344.1	343.8	345.3
15°	324.2	325.9	324.6	324.0	325.1
17.5°	303.4	303.1	302.4	302.0	301.6
20°	270.6	271.9	271.4	269.1	270.3
22.5°	227.5	227.5	228.3	228.7	227.7
25°	176.9	178.8	179.1	180.3	178.8
27.5°	131.1	131.4	129.4	129.6	131.0
30°	83.7	84.9	84.3	84.9	84.0
32.5°	48.3	49.3	48.9	49.4	49.4
35°	26.5	27.4	26.6	26.2	25.0
37.5°	13.1	13.1	13.4	12.4	11.8
40°	5.7	5.8	5.5	5.2	4.7
42.5°	2.9	2.9	3.0	2.6	2.5
45°	2.0	2.0	2.3	2.0	1.9
47.5°	1.7	1.7	1.9	1.7	1.6
50°	1.5	1.5	1.6	1.4	1.4
52.5°	1.4	1.4	1.4	1.3	1.2
55°	1.2	1.2	1.2	1.1	1.1
57.5°	1.0	1.1	1.1	1.0	0.9
60°	0.8	0.8	0.9	0.8	0.8
62.5°	0.7	0.7	0.7	0.7	0.6
65°	0.5	0.5	0.5	0.5	0.4
67.5°	0.1	0.2	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)