

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: P402035

Luminaire Tested: **LA1MR012D010 EA1M12509040SB1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402035  
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 EA1M12509040SB1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

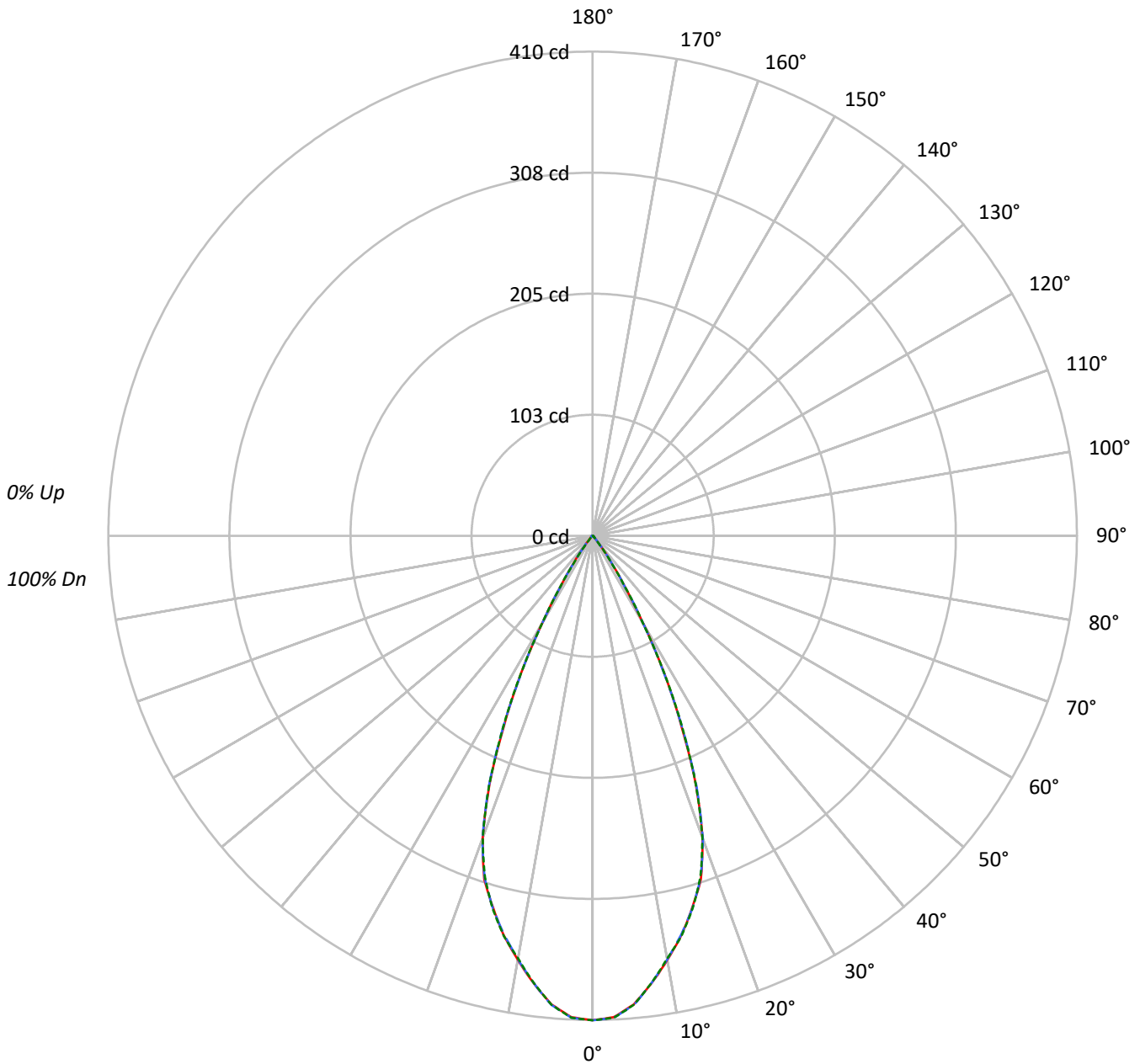
Lumens per Lamp: N/A  
Luminaire Lumens: 231.6 lumens  
Efficiency: N/A  
Efficacy: 64.3 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P402035

CATALOG NUMBER: LA1MR012D010 EA1M12509040SB1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P402035

CATALOG NUMBER: LA1MR012D010 EA1M12509040SB1MW

**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	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°	32824	32824	32824
5°	31994	32034	32018
10°	29626	29577	29529
15°	27000	27033	27075
20°	23165	23233	23139
25°	15703	15897	15871
30°	7778	7824	7797
35°	2598	2617	2461
40°	595	574	501
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



TEST NUMBER: P402035

CATALOG NUMBER: LA1MR012D010 EA1M12509040SB1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.9	15.9
10°-20°	90.5	39.1
20°-30°	80.6	34.8
30°-40°	20.1	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°	208.1	89.8
0°-40°	228.2	98.5
0°-60°	231.2	99.8
0°-90°	231.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	231.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	398	400	399	399	399	37
15°	326	328	326	326	327	91
25°	178	180	180	181	180	80
35°	27	28	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	



TEST NUMBER: P402035

CATALOG NUMBER: LA1MR012D010 EA1M12509040SB1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	410.3	410.3	410.3	410.3	410.3
2.5°	408.0	409.8	408.5	408.6	408.6
5°	398.4	399.8	398.9	398.6	398.7
7.5°	382.3	383.5	382.1	382.6	382.0
10°	364.7	366.0	364.1	364.1	363.5
12.5°	346.8	348.2	346.0	345.7	347.2
15°	326.0	327.7	326.4	325.8	326.9
17.5°	305.0	304.8	304.0	303.7	303.3
20°	272.1	273.4	272.9	270.6	271.8
22.5°	228.7	228.8	229.6	229.9	228.9
25°	177.9	179.8	180.1	181.3	179.8
27.5°	131.8	132.2	130.1	130.3	131.7
30°	84.2	85.3	84.7	85.3	84.4
32.5°	48.6	49.6	49.2	49.6	49.7
35°	26.6	27.6	26.8	26.4	25.2
37.5°	13.2	13.2	13.5	12.4	11.8
40°	5.7	5.8	5.5	5.2	4.8
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



Report Generated By E9808895 / USPTCWHP6082093







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







(END OF REPORT)