

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: P402092

Luminaire Tested: **LA1MR022D010 EA1M22509030SC1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402092  
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: LA1MR022D010 EA1M22509030SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

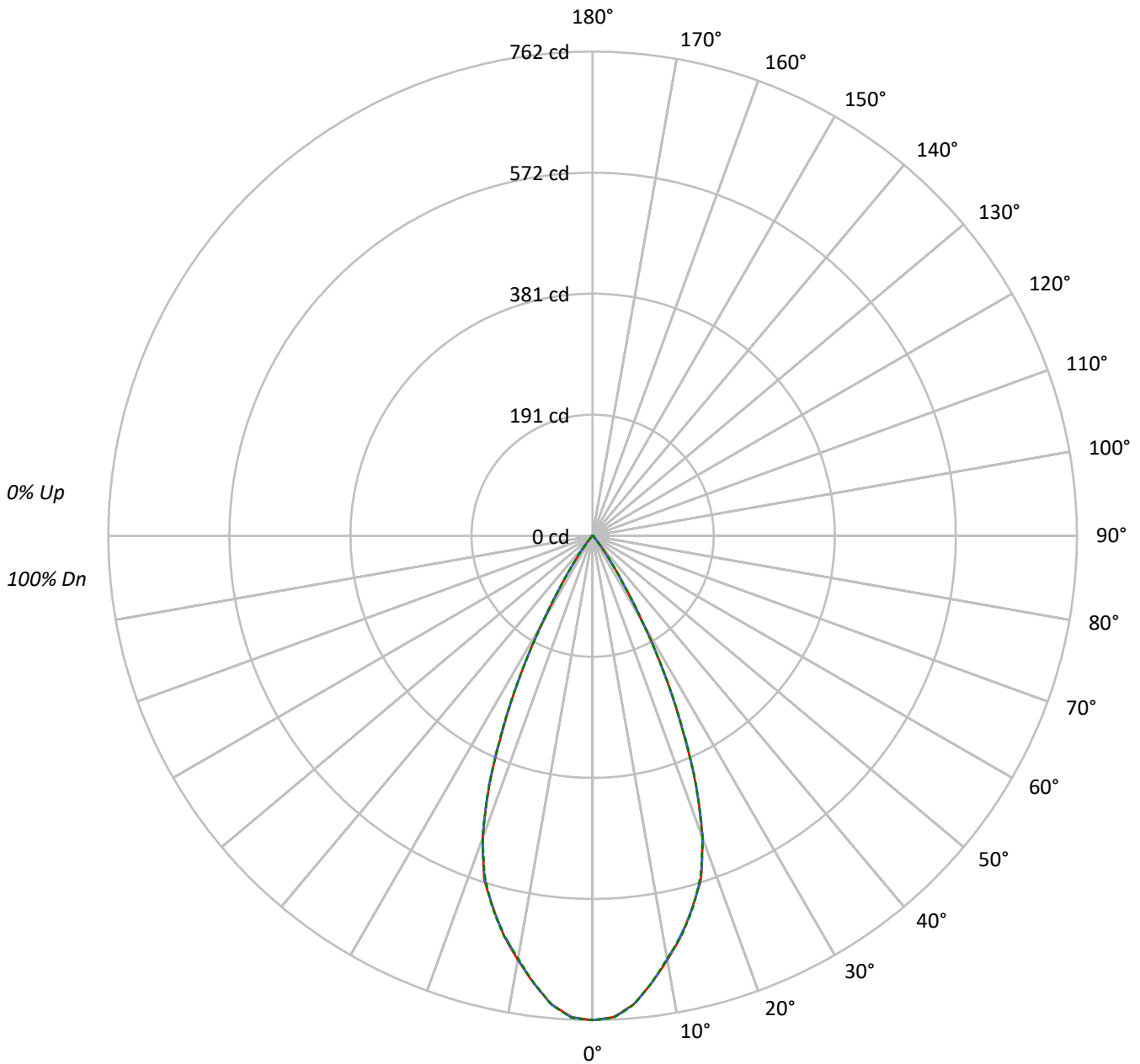
Lumens per Lamp: N/A  
Luminaire Lumens: 430.3 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.7  
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: P402092

CATALOG NUMBER: LA1MR022D010 EA1M22509030SC1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P402092

CATALOG NUMBER: LA1MR022D010 EA1M22509030SC1MW

**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°	60984	60984	60984
5°	59442	59522	59490
10°	55044	54963	54865
15°	50165	50223	50298
20°	43035	43163	43001
25°	29173	29535	29482
30°	14448	14540	14494
35°	4824	4854	4561
40°	1107	1076	929
45°	430	475	396
50°	348	373	311
55°	321	321	279
60°	240	272	224
65°	151	189	133
70°	0	23	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P402092

CATALOG NUMBER: LA1MR022D010 EA1M22509030SC1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.6	15.9
10°-20°	168.2	39.1
20°-30°	149.8	34.8
30°-40°	37.4	8.7
40°-50°	3.6	0.8
50°-60°	2.0	0.5
60°-70°	0.8	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°	386.6	89.8
0°-40°	424.0	98.5
0°-60°	429.5	99.8
0°-90°	430.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	430.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	740	743	741	741	741	69
15°	606	609	606	605	607	168
25°	330	334	335	337	334	149
35°	49	51	50	49	47	37
45°	4	4	4	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P402092

CATALOG NUMBER: LA1MR022D010 EA1M22509030SC1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	762.3	762.3	762.3	762.3	762.3
2.5°	758.0	761.3	758.9	759.1	759.2
5°	740.2	742.9	741.2	740.6	740.8
7.5°	710.2	712.6	709.9	710.9	709.8
10°	677.6	680.0	676.6	676.6	675.4
12.5°	644.3	646.9	642.8	642.4	645.0
15°	605.7	608.8	606.4	605.3	607.3
17.5°	566.7	566.3	564.9	564.2	563.5
20°	505.5	508.0	507.0	502.8	505.1
22.5°	425.0	425.1	426.5	427.2	425.4
25°	330.5	334.1	334.6	336.8	334.0
27.5°	244.9	245.6	241.8	242.0	244.7
30°	156.4	158.5	157.4	158.5	156.9
32.5°	90.3	92.1	91.4	92.2	92.4
35°	49.4	51.3	49.7	49.0	46.7
37.5°	24.5	24.5	25.1	23.1	22.0
40°	10.6	10.8	10.3	9.7	8.9
42.5°	5.4	5.4	5.6	4.8	4.6
45°	3.8	3.8	4.2	3.7	3.5
47.5°	3.2	3.2	3.5	3.1	3.0
50°	2.8	2.8	3.0	2.7	2.5
52.5°	2.5	2.5	2.7	2.4	2.3
55°	2.3	2.3	2.3	2.1	2.0
57.5°	1.8	2.0	2.0	1.8	1.7
60°	1.5	1.5	1.7	1.5	1.4
62.5°	1.3	1.3	1.3	1.3	1.1
65°	0.8	0.8	1.0	0.8	0.7
67.5°	0.1	0.3	0.7	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)