

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: P402273

Luminaire Tested: **LD1MR022D010 ED1M22509040MMS1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402273  
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: LD1MR022D010 ED1M22509040MMS1MW  
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

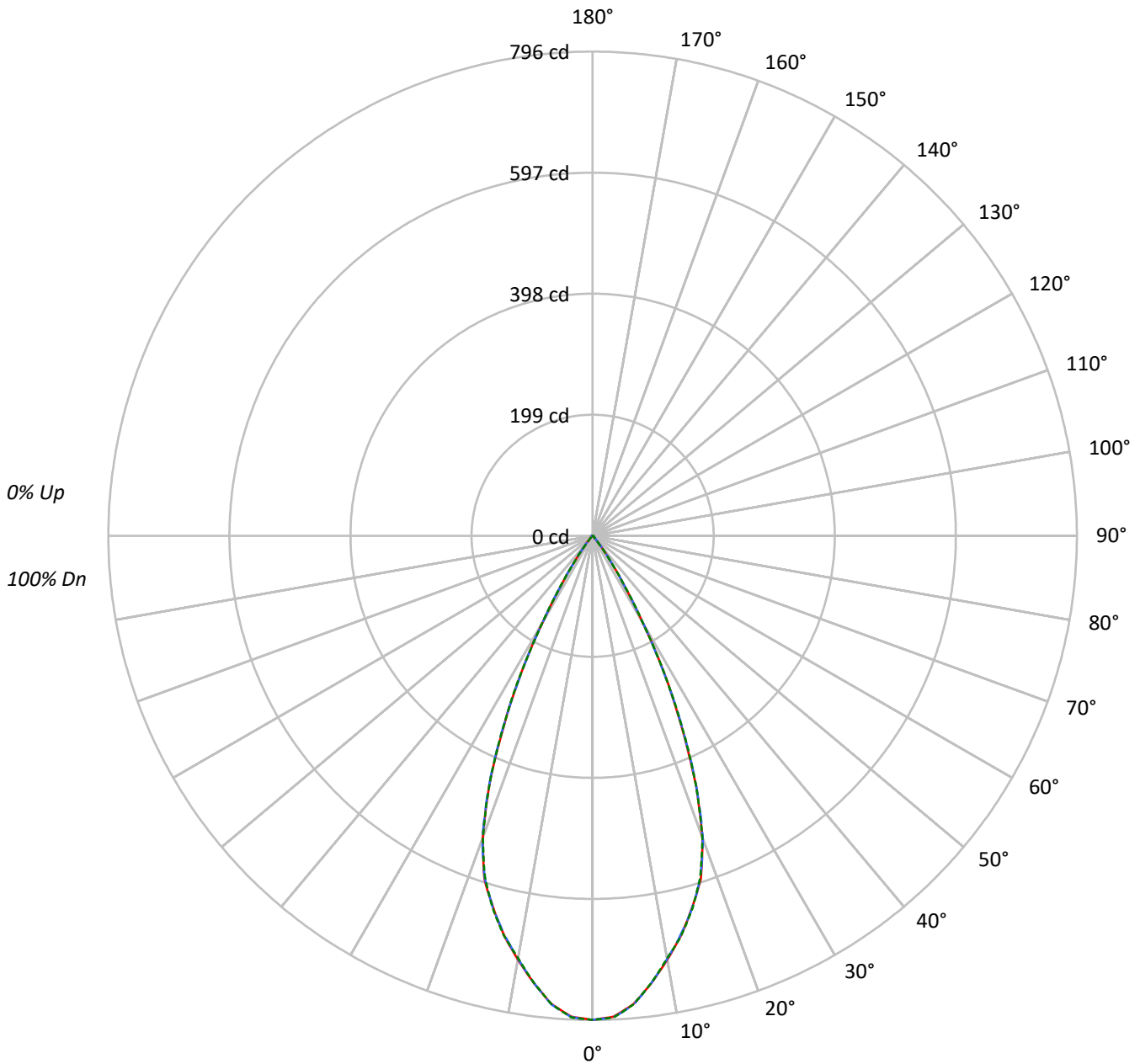
Lumens per Lamp: N/A  
Luminaire Lumens: 449.2 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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: P402273

CATALOG NUMBER: LD1MR022D010 ED1M22509040MMS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P402273

CATALOG NUMBER: LD1MR022D010 ED1M22509040MMS1MW

**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°	63672	63672	63672
5°	62060	62140	62108
10°	57465	57384	57286
15°	52377	52435	52509
20°	44925	45070	44891
25°	30453	30833	30780
30°	15085	15187	15131
35°	5039	5069	4766
40°	1149	1117	971
45°	453	498	419
50°	361	386	324
55°	335	335	293
60°	256	288	240
65°	170	189	133
70°	0	23	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P402273

CATALOG NUMBER: LD1MR022D010 ED1M22509040MMS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	15.9
10°-20°	175.6	39.1
20°-30°	156.4	34.8
30°-40°	39.0	8.7
40°-50°	3.7	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°	403.6	89.8
0°-40°	442.7	98.5
0°-60°	448.4	99.8
0°-90°	449.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	773	776	774	773	773	72
15°	632	636	633	632	634	176
25°	345	349	349	352	349	156
35°	52	54	52	51	49	39
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: P402273

CATALOG NUMBER: LD1MR022D010 ED1M22509040MMS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	795.9	795.9	795.9	795.9	795.9
2.5°	791.3	794.9	792.4	792.5	792.6
5°	772.8	775.6	773.8	773.2	773.4
7.5°	741.5	744.0	741.2	742.2	741.0
10°	707.4	709.9	706.4	706.4	705.2
12.5°	672.7	675.3	671.1	670.6	673.4
15°	632.4	635.6	633.1	632.0	634.0
17.5°	591.7	591.3	589.8	589.0	588.3
20°	527.7	530.4	529.4	525.0	527.3
22.5°	443.7	443.8	445.3	446.0	444.1
25°	345.0	348.8	349.3	351.6	348.7
27.5°	255.6	256.4	252.4	252.7	255.5
30°	163.3	165.5	164.4	165.5	163.8
32.5°	94.2	96.1	95.4	96.3	96.4
35°	51.6	53.5	51.9	51.2	48.8
37.5°	25.6	25.6	26.2	24.1	22.9
40°	11.0	11.3	10.7	10.1	9.3
42.5°	5.6	5.6	5.9	5.0	4.9
45°	4.0	4.0	4.4	3.8	3.7
47.5°	3.4	3.4	3.7	3.2	3.1
50°	2.9	2.9	3.1	2.8	2.6
52.5°	2.6	2.6	2.8	2.5	2.4
55°	2.4	2.4	2.4	2.2	2.1
57.5°	1.9	2.1	2.1	1.9	1.8
60°	1.6	1.6	1.8	1.6	1.5
62.5°	1.3	1.3	1.3	1.3	1.2
65°	0.9	0.9	1.0	0.9	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)