

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: P402108

Luminaire Tested: **LA1MR052D010 EA1M52309030SC1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2005-766-2)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LA1MR052D010 EA1M52309030SC1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

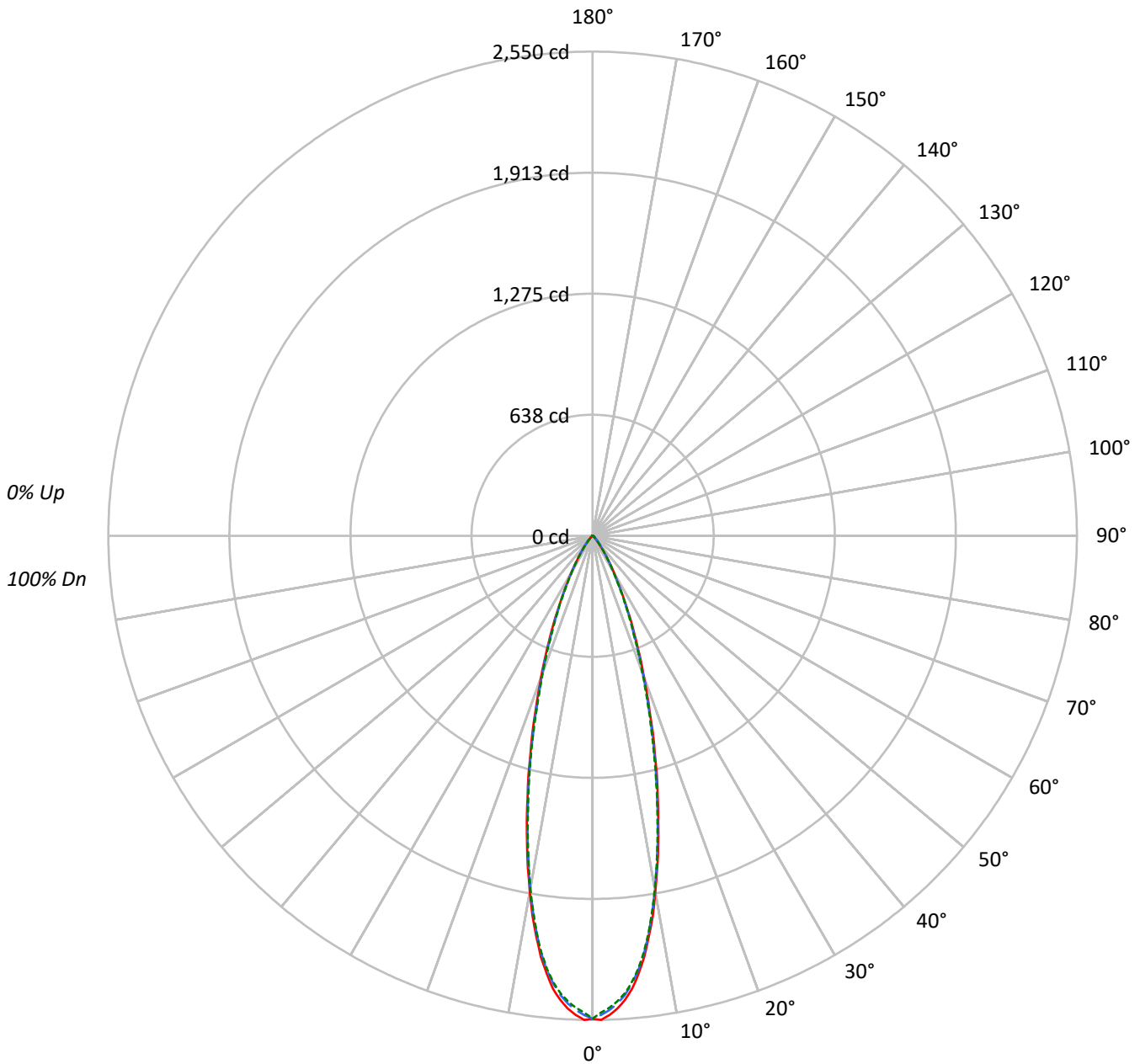
Lumens per Lamp: N/A
Luminaire Lumens: 867.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 12.1
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: P402108

CATALOG NUMBER: LA1MR052D010 EA1M52309030SC1MW

Luminous Intensity Polar Plot





TEST NUMBER: P402108

CATALOG NUMBER: LA1MR052D010 EA1M52309030SC1MW

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	105	103	102	101	100	99	98	97	95					95			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91					91			
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87					87			
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83					83			
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79					79			
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76					76			
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73					73			
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70					70			
9	85	77	73	69	84	77	72	69	76	72	69	75	71	69	74	71	69	67					67			
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65					65			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	788551	788551	788551
5°	745010	737417	735021
10°	599065	594533	593840
15°	419048	411923	410158
20°	261443	254845	251942
25°	151254	146705	144824
30°	80541	78178	76567
35°	38601	39850	39017
40°	16147	21974	16592
45°	8242	13591	8768
50°	5353	8006	5884
55°	3621	5405	4216
60°	2046	3410	2728
65°	807	2421	807
70°	0	997	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P402108

CATALOG NUMBER: LA1MR052D010 EA1M52309030SC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	24.4
10°-20°	352.6	40.7
20°-30°	202.8	23.4
30°-40°	70.6	8.1
40°-50°	20.0	2.3
50°-60°	7.7	0.9
60°-70°	2.1	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°	766.6	88.4
0°-40°	837.2	96.6
0°-60°	864.9	99.8
0°-90°	867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2544	2544	2544	2544	2544	
5°	2394	2380	2370	2374	2362	213
15°	1306	1300	1284	1280	1278	356
25°	442	437	429	427	423	207
35°	102	106	105	105	103	69
45°	19	22	31	22	20	16
55°	7	8	10	8	8	6
65°	1	2	3	2	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: P402108

CATALOG NUMBER: LA1MR052D010 EA1M52309030SC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2543.7	2543.7	2543.7	2543.7	2543.7
1°	2550.4	2538.2	2524.9	2524.9	2511.6
2°	2526.0	2514.9	2500.5	2501.6	2487.2
3°	2493.8	2482.8	2468.4	2470.6	2457.3
4°	2449.5	2435.1	2425.1	2428.5	2416.3
5°	2394.1	2379.7	2369.7	2374.1	2362.0
6°	2318.7	2308.7	2299.9	2305.4	2294.3
7°	2234.5	2223.4	2216.8	2221.2	2212.3
8°	2131.4	2123.7	2115.9	2120.3	2111.5
9°	2026.1	2013.9	2006.2	2009.5	2002.8
10°	1903.1	1897.5	1888.7	1892.0	1886.5
11°	1784.5	1784.5	1767.9	1762.3	1765.6
12°	1662.6	1661.5	1645.9	1639.3	1641.5
13°	1539.5	1538.4	1522.9	1517.4	1518.5
14°	1417.6	1418.7	1402.1	1397.7	1396.6
15°	1305.7	1300.1	1283.5	1280.2	1278.0
16°	1188.2	1187.1	1170.4	1166.0	1163.8
17°	1082.9	1077.3	1060.7	1056.3	1053.0
18°	973.2	974.3	957.6	954.3	948.8
19°	880.1	877.8	862.3	859.0	853.5
20°	792.5	782.5	772.5	769.2	763.7
22.5°	597.4	591.9	578.6	575.2	574.1
25°	442.2	436.7	428.9	426.7	423.4
26°	386.8	387.9	378.0	375.7	373.5
27°	342.5	340.3	331.4	330.3	327.0
28°	294.8	297.0	287.1	286.0	283.7
29°	257.1	257.1	251.6	248.3	246.1
30°	225.0	223.9	218.4	216.1	213.9
32.5°	155.2	154.1	151.8	150.7	148.5
35°	102.0	106.4	105.3	105.3	103.1
37.5°	63.2	72.0	75.4	74.3	67.6
40°	39.9	46.6	54.3	49.9	41.0
42.5°	26.6	32.1	39.9	33.3	26.6
45°	18.8	22.2	31.0	22.2	20.0
47.5°	14.4	16.6	23.3	16.6	14.4
50°	11.1	13.3	16.6	13.3	12.2
52.5°	8.9	10.0	13.3	10.0	8.9
55°	6.7	7.8	10.0	7.8	7.8
57.5°	5.5	6.7	7.8	6.7	5.5
60°	3.3	4.4	5.5	4.4	4.4
62.5°	2.2	3.3	4.4	3.3	2.2
65°	1.1	2.2	3.3	2.2	1.1
67.5°	0.0	1.1	1.1	0.0	0.0



TEST NUMBER: P402108

CATALOG NUMBER: LA1MR052D010 EA1M52309030SC1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
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°







70°	0.0	0.0	1.1	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)