

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: P402074

Luminaire Tested: **LA1MR022D010 EA1M22309030MW1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402074
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: LA1MR022D010 EA1M22309030MW1MW
Description: 1 INCH 30° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

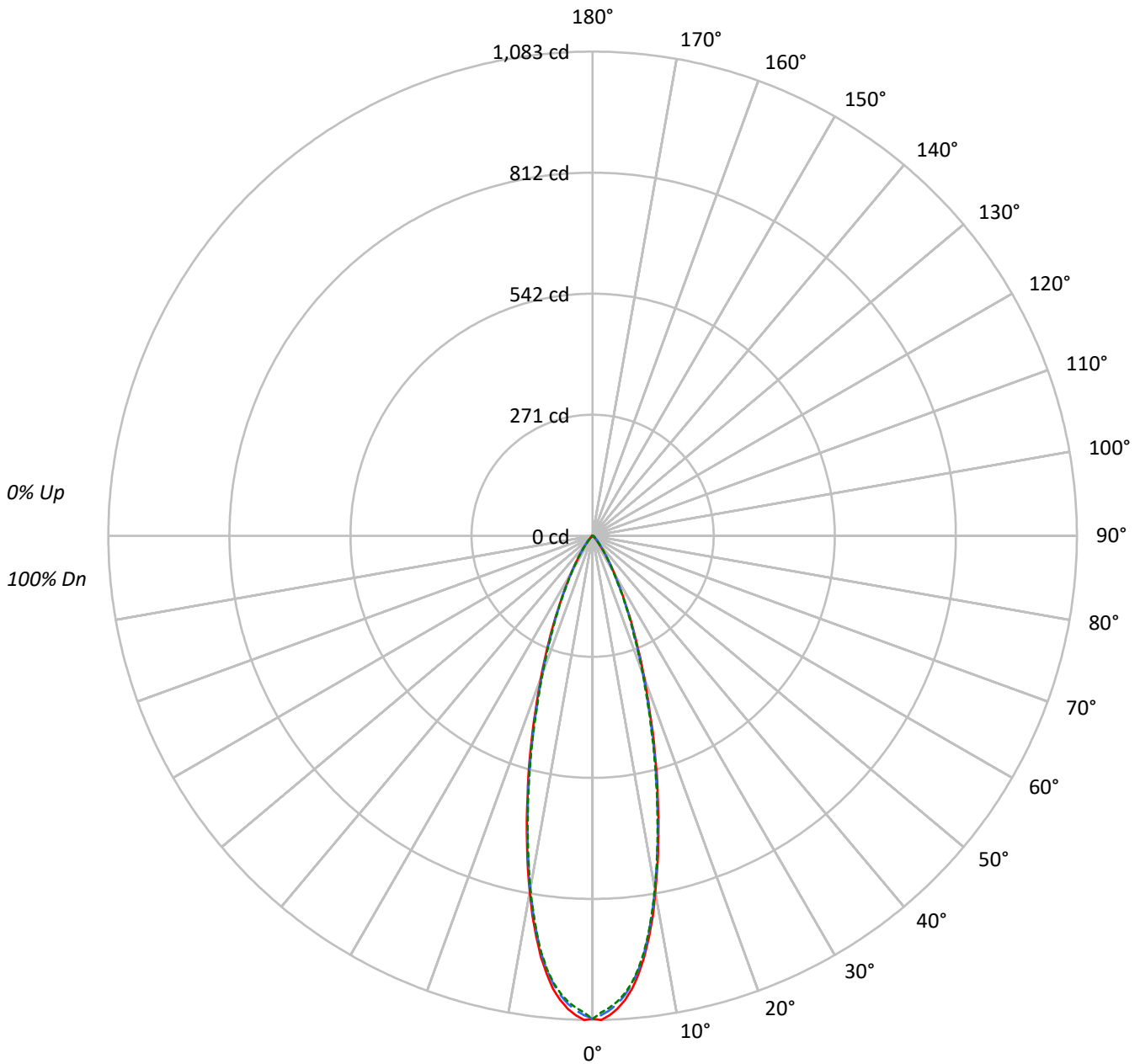
Lumens per Lamp: N/A
Luminaire Lumens: 368.3 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P402074

CATALOG NUMBER: LA1MR022D010 EA1M22309030MW1MW

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																			
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	95																			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																			
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87																			
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83																			
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79																			
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76																			
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73																			
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70																			
9	85	77	73	69	84	77	72	69	76	72	69	75	71	69	74	71	69	67																			
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	334988	334988	334988
5°	316476	313271	312244
10°	254503	252551	252268
15°	178024	174975	174237
20°	111076	108272	107019
25°	64271	62321	61535
30°	34221	33219	32538
35°	16387	16916	16576
40°	6880	9348	7041
45°	3507	5787	3726
50°	2267	3424	2508
55°	1513	2270	1784
60°	868	1488	1178
65°	367	1027	367
70°	0	453	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P402074

CATALOG NUMBER: LA1MR022D010 EA1M22309030MW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	24.4
10°-20°	149.8	40.7
20°-30°	86.2	23.4
30°-40°	30.0	8.1
40°-50°	8.5	2.3
50°-60°	3.3	0.9
60°-70°	0.9	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
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0°-30°	325.7	88.4
0°-40°	355.6	96.6
0°-60°	367.4	99.8
0°-90°	368.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	368.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1017	1011	1007	1009	1003	90
15°	555	552	545	544	543	151
25°	188	186	182	181	180	88
35°	43	45	45	45	44	29
45°	8	9	13	9	8	7
55°	3	3	4	3	3	3
65°	0	1	1	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P402074

CATALOG NUMBER: LA1MR022D010 EA1M22309030MW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.6	1080.6	1080.6	1080.6	1080.6
1°	1083.4	1078.3	1072.6	1072.6	1067.0
2°	1073.1	1068.4	1062.2	1062.7	1056.6
3°	1059.4	1054.7	1048.6	1049.5	1043.9
4°	1040.6	1034.5	1030.2	1031.6	1026.5
5°	1017.0	1010.9	1006.7	1008.6	1003.4
6°	985.0	980.8	977.0	979.4	974.7
7°	949.2	944.5	941.7	943.6	939.8
8°	905.5	902.2	898.9	900.7	897.0
9°	860.7	855.5	852.2	853.7	850.8
10°	808.5	806.1	802.3	803.7	801.4
11°	758.1	758.1	751.0	748.7	750.1
12°	706.3	705.8	699.2	696.4	697.3
13°	654.0	653.5	647.0	644.6	645.1
14°	602.2	602.7	595.6	593.7	593.3
15°	554.7	552.3	545.2	543.8	542.9
16°	504.8	504.3	497.2	495.3	494.4
17°	460.0	457.7	450.6	448.7	447.3
18°	413.4	413.9	406.8	405.4	403.1
19°	373.9	372.9	366.3	364.9	362.6
20°	336.7	332.4	328.2	326.8	324.4
22.5°	253.8	251.4	245.8	244.4	243.9
25°	187.9	185.5	182.2	181.3	179.9
26°	164.3	164.8	160.6	159.6	158.7
27°	145.5	144.6	140.8	140.3	138.9
28°	125.2	126.2	122.0	121.5	120.5
29°	109.2	109.2	106.9	105.5	104.5
30°	95.6	95.1	92.8	91.8	90.9
32.5°	65.9	65.4	64.5	64.0	63.1
35°	43.3	45.2	44.7	44.7	43.8
37.5°	26.8	30.6	32.0	31.5	28.7
40°	17.0	19.8	23.1	21.2	17.4
42.5°	11.3	13.7	17.0	14.1	11.3
45°	8.0	9.4	13.2	9.4	8.5
47.5°	6.1	7.1	9.9	7.1	6.1
50°	4.7	5.7	7.1	5.7	5.2
52.5°	3.8	4.2	5.7	4.2	3.8
55°	2.8	3.3	4.2	3.3	3.3
57.5°	2.4	2.8	3.3	2.8	2.4
60°	1.4	1.9	2.4	1.9	1.9
62.5°	0.9	1.4	1.9	1.4	0.9
65°	0.5	0.9	1.4	0.9	0.5
67.5°	0.0	0.5	0.5	0.0	0.0



TEST NUMBER: P402074

CATALOG NUMBER: LA1MR022D010 EA1M22309030MW1MW

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



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







70°	0.0	0.0	0.5	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)