

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: P402030

Luminaire Tested: **LA1MR012D010 EA1M12509035MW1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402030
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 EA1M12509035MW1MW
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

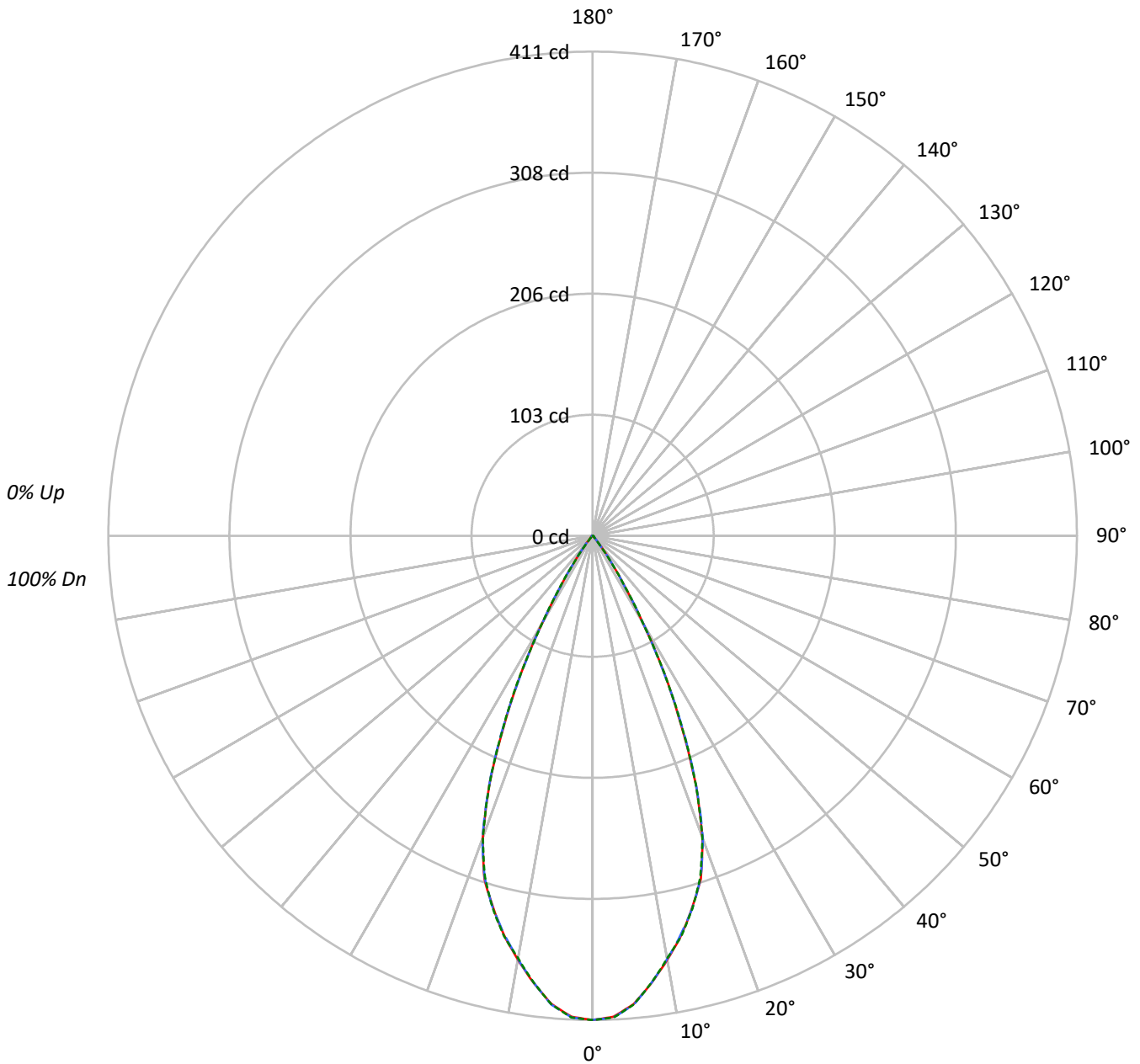
Lumens per Lamp: N/A
Luminaire Lumens: 232.0 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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: P402030

CATALOG NUMBER: LA1MR012D010 EA1M12509035MW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P402030

CATALOG NUMBER: LA1MR012D010 EA1M12509035MW1MW

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			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°	32880	32880	32880
5°	32050	32090	32074
10°	29675	29634	29585
15°	27050	27083	27116
20°	23199	23276	23182
25°	15730	15924	15897
30°	7787	7843	7815
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: P402030

CATALOG NUMBER: LA1MR012D010 EA1M12509035MW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	15.9
10°-20°	90.7	39.1
20°-30°	80.7	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°	208.4	89.9
0°-40°	228.6	98.5
0°-60°	231.6	99.8
0°-90°	232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	411	411	411	411	411	
5°	399	400	400	399	399	37
15°	327	328	327	326	327	91
25°	178	180	180	182	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	0



TEST NUMBER: P402030

CATALOG NUMBER: LA1MR012D010 EA1M12509035MW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.0	411.0	411.0	411.0	411.0
2.5°	408.6	410.5	409.2	409.3	409.3
5°	399.1	400.5	399.6	399.3	399.4
7.5°	382.9	384.2	382.8	383.3	382.7
10°	365.3	366.6	364.8	364.8	364.2
12.5°	347.4	348.7	346.5	346.3	347.8
15°	326.6	328.3	327.0	326.4	327.4
17.5°	305.6	305.3	304.6	304.2	303.8
20°	272.5	273.9	273.4	271.1	272.3
22.5°	229.1	229.2	229.9	230.3	229.3
25°	178.2	180.1	180.4	181.6	180.1
27.5°	132.0	132.4	130.3	130.5	131.9
30°	84.3	85.5	84.9	85.5	84.6
32.5°	48.7	49.6	49.3	49.7	49.8
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)