

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: P402025

Luminaire Tested: **LA1MR012D010 EA1M12509030MMS1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402025
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 EA1M12509030MMS1MW
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

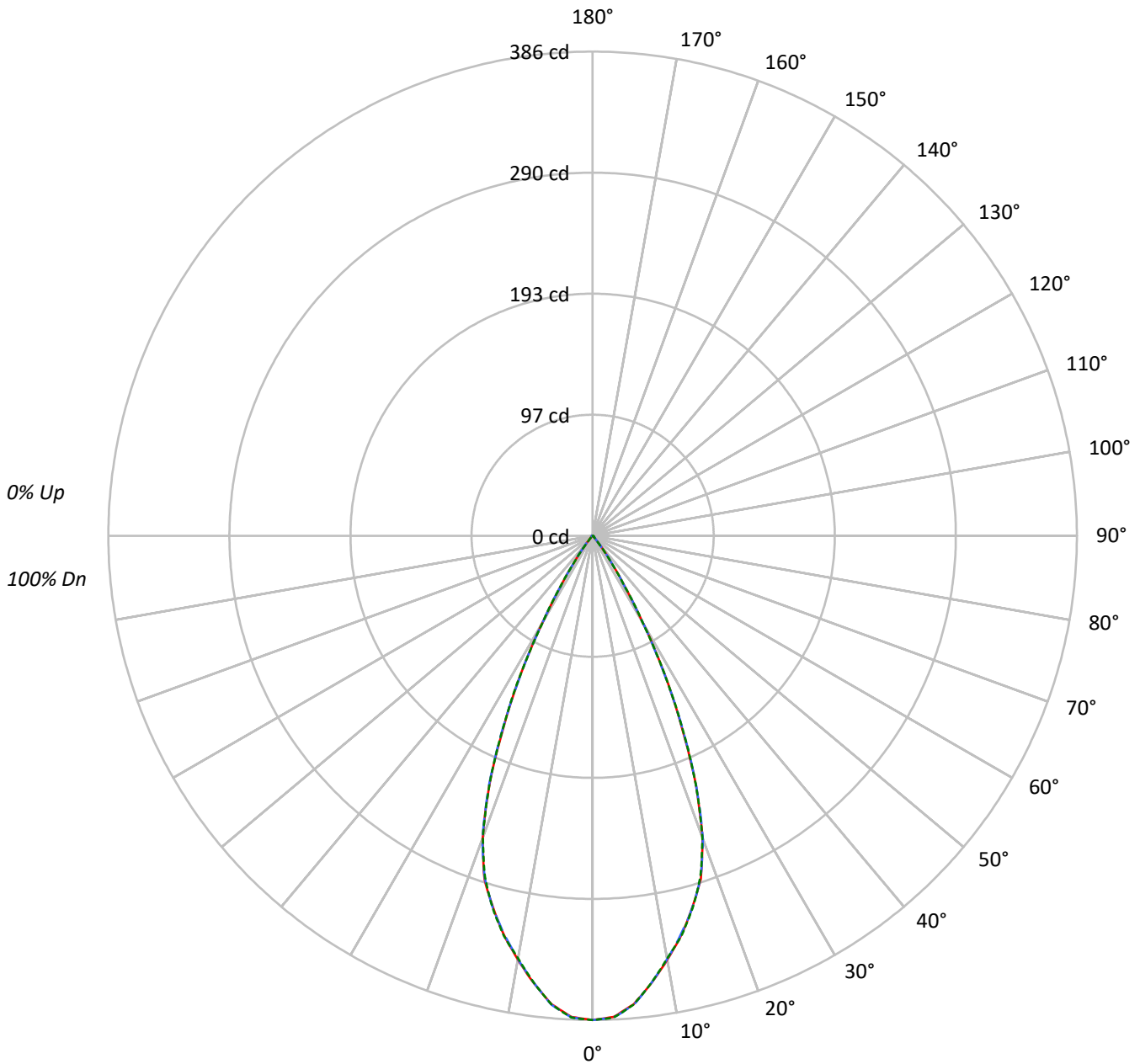
Lumens per Lamp: N/A
Luminaire Lumens: 217.9 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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				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°	30888	30888	30888
5°	30107	30147	30131
10°	27871	27831	27790
15°	25410	25435	25476
20°	21794	21862	21777
25°	14776	14953	14926
30°	7316	7362	7335
35°	2442	2461	2315
40°	553	543	470
45°	215	238	204
50°	174	187	162
55°	153	153	139
60°	128	144	112
65°	76	95	76
70°	0	23	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	15.9
10°-20°	85.2	39.1
20°-30°	75.8	34.8
30°-40°	18.9	8.7
40°-50°	1.8	0.8
50°-60°	1.0	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°	195.8	89.9
0°-40°	214.7	98.5
0°-60°	217.5	99.8
0°-90°	217.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	217.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	375	376	375	375	375	35
15°	307	308	307	307	308	85
25°	167	169	169	171	169	76
35°	25	26	25	25	24	19
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	386.1	386.1	386.1	386.1	386.1
2.5°	383.9	385.6	384.4	384.4	384.5
5°	374.9	376.2	375.4	375.1	375.2
7.5°	359.7	360.9	359.5	360.0	359.5
10°	343.1	344.4	342.6	342.6	342.1
12.5°	326.3	327.6	325.5	325.3	326.7
15°	306.8	308.3	307.1	306.6	307.6
17.5°	287.0	286.8	286.1	285.7	285.4
20°	256.0	257.3	256.8	254.6	255.8
22.5°	215.2	215.3	216.0	216.4	215.4
25°	167.4	169.2	169.4	170.6	169.1
27.5°	124.0	124.4	122.4	122.6	123.9
30°	79.2	80.3	79.7	80.3	79.4
32.5°	45.7	46.6	46.3	46.7	46.8
35°	25.0	26.0	25.2	24.8	23.7
37.5°	12.4	12.4	12.7	11.7	11.1
40°	5.3	5.5	5.2	4.9	4.5
42.5°	2.7	2.7	2.9	2.4	2.4
45°	1.9	1.9	2.1	1.9	1.8
47.5°	1.6	1.6	1.8	1.6	1.5
50°	1.4	1.4	1.5	1.4	1.3
52.5°	1.3	1.3	1.4	1.2	1.1
55°	1.1	1.1	1.1	1.1	1.0
57.5°	0.9	1.0	1.0	0.9	0.9
60°	0.8	0.8	0.9	0.8	0.7
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.4	0.4	0.5	0.4	0.4
67.5°	0.1	0.1	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



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







(END OF REPORT)