

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: P402009

Luminaire Tested: **LA1MR012D010 EA1M12309030MMS1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402009
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: LA1MR012D010 EA1M12309030MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

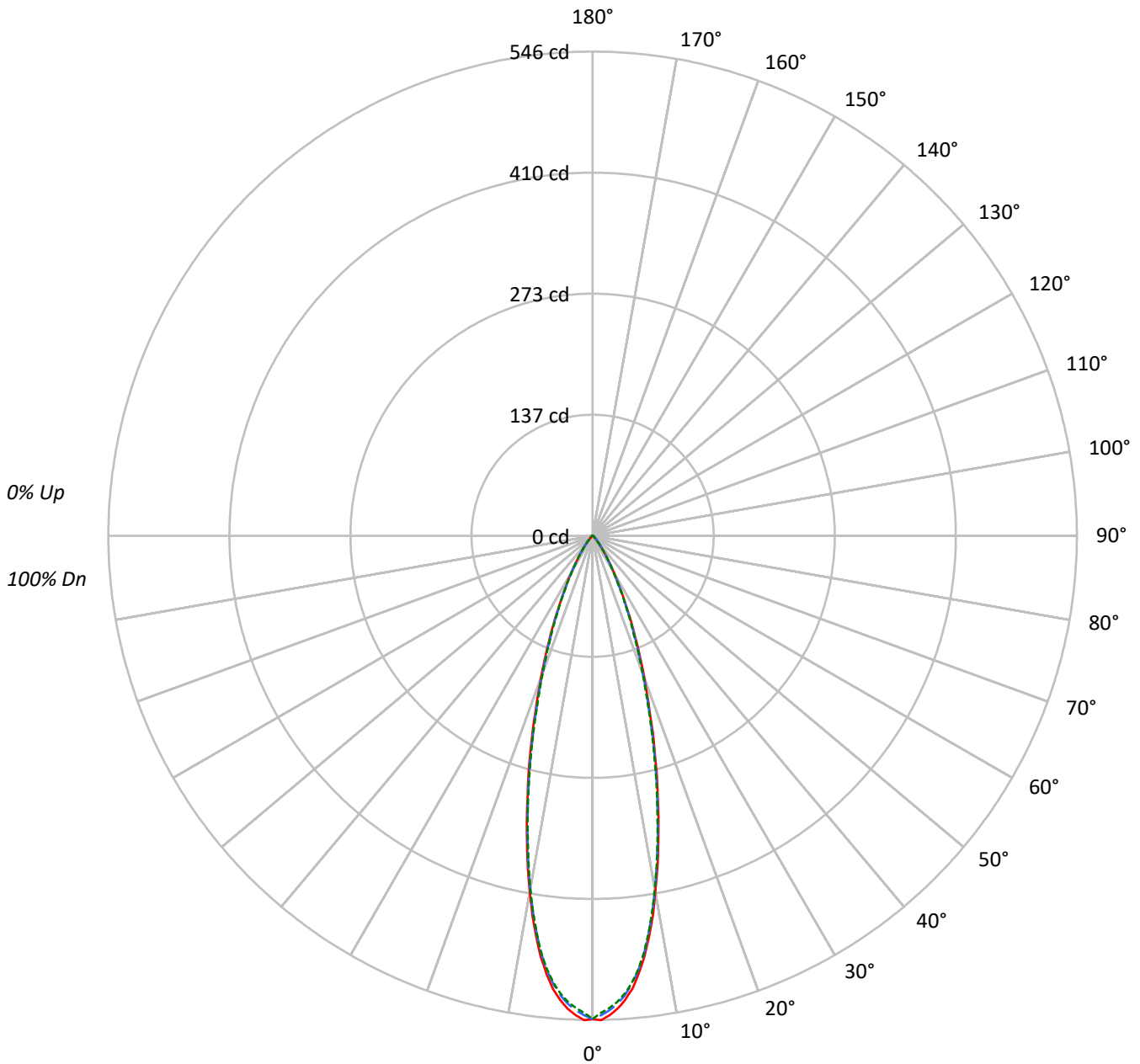
Lumens per Lamp: N/A
Luminaire Lumens: 185.7 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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																			
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	76	72	87	80	75	72	79	75	72	78	74	72	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°	168951	168951	168951
5°	159607	157989	157460
10°	128337	127362	127236
15°	89766	88258	87873
20°	56017	54598	53971
25°	32392	31434	31024
30°	17254	16752	16395
35°	8250	8553	8364
40°	3440	4694	3561
45°	1754	2893	1885
50°	1157	1736	1254
55°	757	1135	919
60°	434	744	558
65°	147	513	147
70°	0	181	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	24.4
10°-20°	75.5	40.7
20°-30°	43.5	23.4
30°-40°	15.1	8.1
40°-50°	4.3	2.3
50°-60°	1.6	0.9
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°	164.2	88.4
0°-40°	179.4	96.6
0°-60°	185.3	99.8
0°-90°	185.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	185.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	513	510	508	509	506	46
15°	280	278	275	274	274	76
25°	95	94	92	91	91	44
35°	22	23	23	23	22	15
45°	4	5	7	5	4	3
55°	1	2	2	2	2	1
65°	0	0	1	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	545.0	545.0	545.0	545.0	545.0
1°	546.4	543.8	540.9	540.9	538.1
2°	541.2	538.8	535.7	536.0	532.9
3°	534.3	531.9	528.8	529.3	526.5
4°	524.8	521.7	519.6	520.3	517.7
5°	512.9	509.8	507.7	508.7	506.0
6°	496.8	494.6	492.7	493.9	491.6
7°	478.7	476.4	474.9	475.9	474.0
8°	456.6	455.0	453.3	454.3	452.4
9°	434.1	431.5	429.8	430.5	429.1
10°	407.7	406.5	404.6	405.4	404.2
11°	382.3	382.3	378.8	377.6	378.3
12°	356.2	356.0	352.6	351.2	351.7
13°	329.8	329.6	326.3	325.1	325.3
14°	303.7	304.0	300.4	299.4	299.2
15°	279.7	278.5	275.0	274.3	273.8
16°	254.6	254.3	250.8	249.8	249.3
17°	232.0	230.8	227.3	226.3	225.6
18°	208.5	208.7	205.2	204.5	203.3
19°	188.5	188.1	184.7	184.0	182.8
20°	169.8	167.7	165.5	164.8	163.6
22.5°	128.0	126.8	124.0	123.2	123.0
25°	94.7	93.6	91.9	91.4	90.7
26°	82.9	83.1	81.0	80.5	80.0
27°	73.4	72.9	71.0	70.8	70.1
28°	63.2	63.6	61.5	61.3	60.8
29°	55.1	55.1	53.9	53.2	52.7
30°	48.2	48.0	46.8	46.3	45.8
32.5°	33.2	33.0	32.5	32.3	31.8
35°	21.8	22.8	22.6	22.6	22.1
37.5°	13.5	15.4	16.1	15.9	14.5
40°	8.5	10.0	11.6	10.7	8.8
42.5°	5.7	6.9	8.5	7.1	5.7
45°	4.0	4.7	6.6	4.7	4.3
47.5°	3.1	3.6	5.0	3.6	3.1
50°	2.4	2.8	3.6	2.8	2.6
52.5°	1.9	2.1	2.8	2.1	1.9
55°	1.4	1.7	2.1	1.7	1.7
57.5°	1.2	1.4	1.7	1.4	1.2
60°	0.7	0.9	1.2	0.9	0.9
62.5°	0.5	0.7	0.9	0.7	0.5
65°	0.2	0.5	0.7	0.5	0.2
67.5°	0.0	0.2	0.2	0.0	0.0



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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	0.2	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)