

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: P402013

Luminaire Tested: **LA1MR012D010 EA1M12309035MMS1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402013
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 EA1M12309035MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

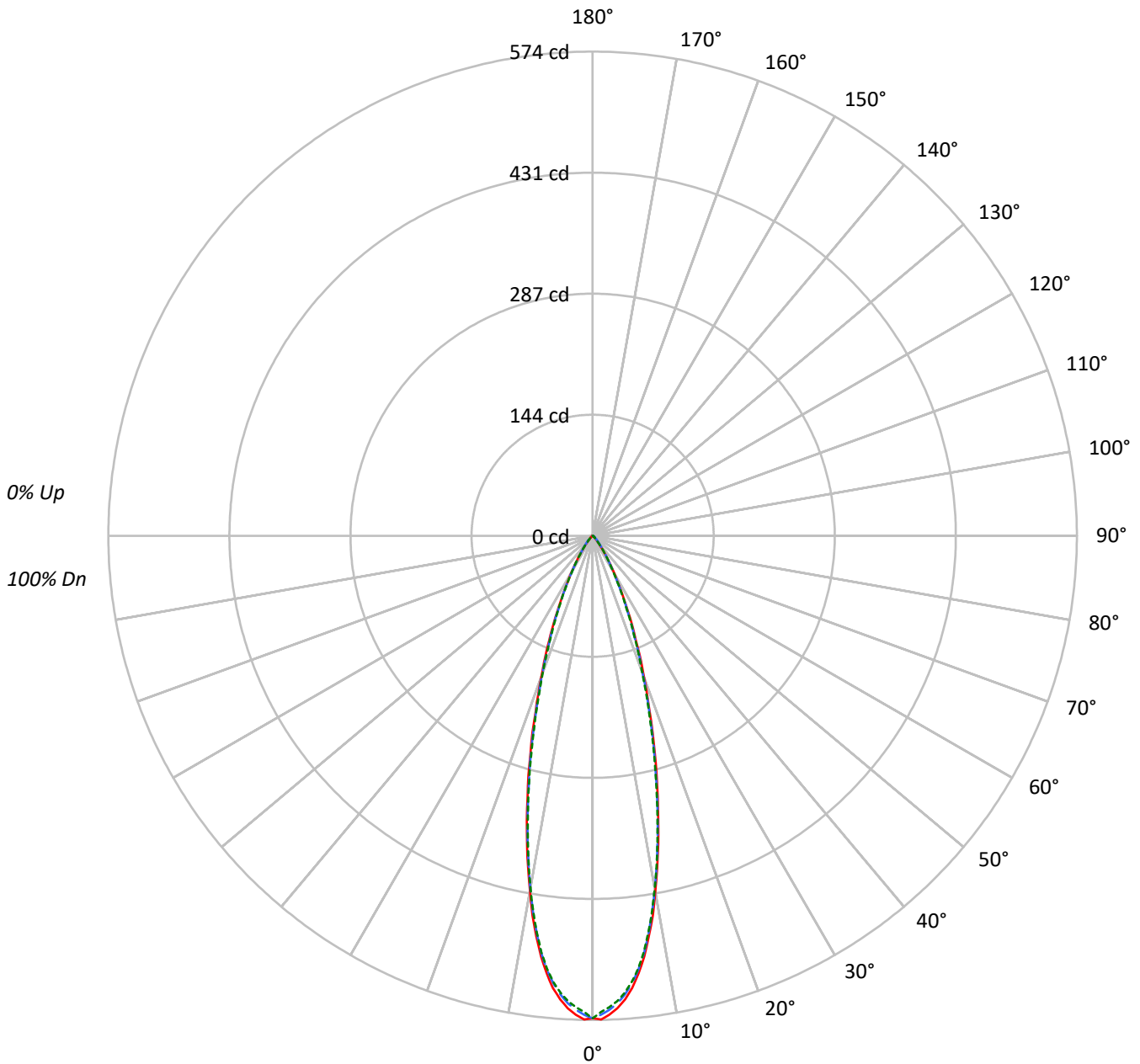
Lumens per Lamp: N/A
Luminaire Lumens: 194.9 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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	96																			
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	68																			
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°	177352	177352	177352
5°	167542	165862	165302
10°	134728	133720	133563
15°	94259	92655	92237
20°	58788	57303	56676
25°	34034	33008	32563
30°	18113	17576	17218
35°	8666	8969	8780
40°	3642	4937	3723
45°	1841	3069	1973
50°	1206	1784	1302
55°	811	1189	919
60°	434	744	620
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°	47.5	24.4
10°-20°	79.3	40.7
20°-30°	45.6	23.4
30°-40°	15.9	8.1
40°-50°	4.5	2.3
50°-60°	1.7	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°	172.4	88.4
0°-40°	188.3	96.6
0°-60°	194.5	99.8
0°-90°	194.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	194.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	538	535	533	534	531	48
15°	294	292	289	288	287	80
25°	100	98	96	96	95	47
35°	23	24	24	24	23	15
45°	4	5	7	5	4	4
55°	2	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°	572.1	572.1	572.1	572.1	572.1
1°	573.6	570.9	567.9	567.9	564.9
2°	568.1	565.6	562.4	562.6	559.4
3°	560.9	558.4	555.1	555.6	552.7
4°	550.9	547.7	545.4	546.2	543.4
5°	538.4	535.2	533.0	534.0	531.2
6°	521.5	519.3	517.3	518.5	516.0
7°	502.6	500.1	498.6	499.6	497.6
8°	479.4	477.6	475.9	476.9	474.9
9°	455.7	452.9	451.2	451.9	450.5
10°	428.0	426.8	424.8	425.5	424.3
11°	401.3	401.3	397.6	396.4	397.1
12°	373.9	373.7	370.2	368.7	369.2
13°	346.3	346.0	342.5	341.3	341.5
14°	318.8	319.1	315.3	314.3	314.1
15°	293.7	292.4	288.7	287.9	287.4
16°	267.2	267.0	263.2	262.2	261.7
17°	243.5	242.3	238.6	237.6	236.8
18°	218.9	219.1	215.4	214.6	213.4
19°	197.9	197.4	193.9	193.2	191.9
20°	178.2	176.0	173.7	173.0	171.8
22.5°	134.4	133.1	130.1	129.4	129.1
25°	99.5	98.2	96.5	96.0	95.2
26°	87.0	87.2	85.0	84.5	84.0
27°	77.0	76.5	74.5	74.3	73.5
28°	66.3	66.8	64.6	64.3	63.8
29°	57.8	57.8	56.6	55.8	55.3
30°	50.6	50.4	49.1	48.6	48.1
32.5°	34.9	34.7	34.2	33.9	33.4
35°	22.9	23.9	23.7	23.7	23.2
37.5°	14.2	16.2	17.0	16.7	15.2
40°	9.0	10.5	12.2	11.2	9.2
42.5°	6.0	7.2	9.0	7.5	6.0
45°	4.2	5.0	7.0	5.0	4.5
47.5°	3.2	3.7	5.2	3.7	3.2
50°	2.5	3.0	3.7	3.0	2.7
52.5°	2.0	2.2	3.0	2.2	2.0
55°	1.5	1.7	2.2	1.7	1.7
57.5°	1.2	1.5	1.7	1.5	1.2
60°	0.7	1.0	1.2	1.0	1.0
62.5°	0.5	0.7	1.0	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)