

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: P401973

Luminaire Tested: **LA1MR102D010 EA1M102509027MMS1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P401973
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: LA1MR102D010 EA1M102509027MMS1MW
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

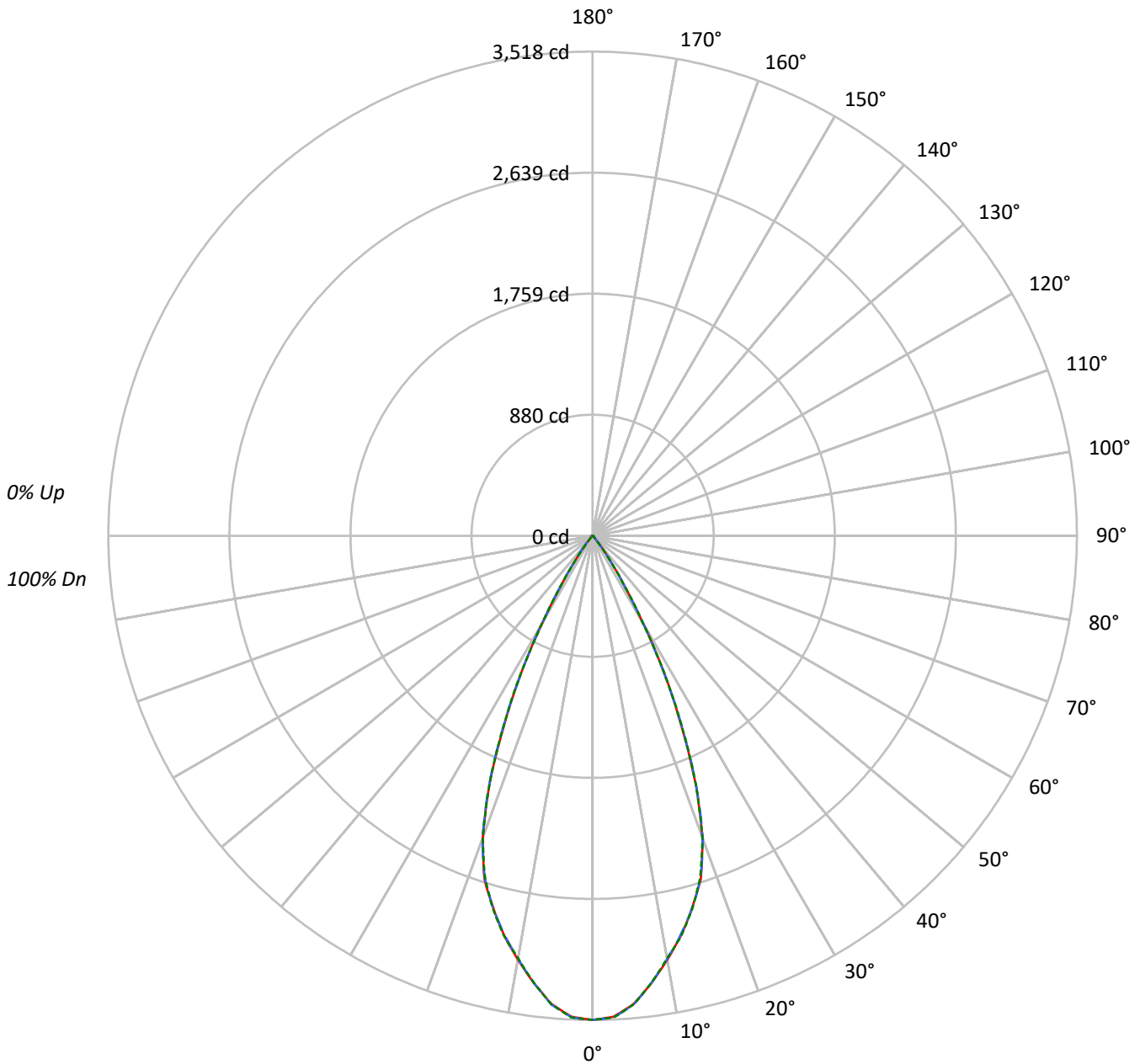
Lumens per Lamp: N/A
Luminaire Lumens: 1985.5 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
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	104	103	102	101	100	99	98	97	95																			
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90																			
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85																			
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81																			
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77																			
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73																			
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70																			
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67																			
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64																			
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	281416	281416	281416
5°	274300	274661	274508
10°	253978	253613	253190
15°	231504	231769	232092
20°	198584	199188	198414
25°	134603	136271	136042
30°	66686	67102	66862
35°	22277	22404	21066
40°	5086	4950	4271
45°	1980	2206	1833
50°	1618	1693	1456
55°	1451	1451	1269
60°	1136	1248	1040
65°	738	852	606
70°	0	140	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	15.9
10°-20°	776.3	39.1
20°-30°	691.1	34.8
30°-40°	172.5	8.7
40°-50°	16.4	0.8
50°-60°	9.0	0.5
60°-70°	3.6	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°	1784.0	89.9
0°-40°	1956.5	98.5
0°-60°	1981.9	99.8
0°-90°	1985.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3518	3518	3518	3518	3518	
5°	3416	3428	3420	3418	3418	316
15°	2795	2810	2798	2793	2802	777
25°	1525	1542	1544	1554	1541	689
35°	228	236	229	226	216	172
45°	18	18	20	17	16	17
55°	10	10	10	10	9	9
65°	4	4	4	4	3	3
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°	3517.7	3517.7	3517.7	3517.7	3517.7
2.5°	3497.6	3513.1	3502.1	3502.7	3503.4
5°	3415.7	3428.0	3420.2	3417.6	3418.3
7.5°	3277.3	3288.3	3276.0	3280.5	3275.3
10°	3126.5	3137.6	3122.0	3122.0	3116.8
12.5°	2973.2	2984.9	2966.1	2964.1	2976.5
15°	2795.2	2809.5	2798.4	2793.2	2802.3
17.5°	2615.2	2613.3	2606.8	2603.5	2600.3
20°	2332.6	2344.3	2339.7	2320.2	2330.6
22.5°	1960.9	1961.6	1968.1	1971.3	1962.9
25°	1524.9	1541.8	1543.8	1554.2	1541.2
27.5°	1129.9	1133.1	1115.6	1116.9	1129.2
30°	721.9	731.6	726.4	731.6	723.8
32.5°	416.5	424.9	421.7	425.6	426.2
35°	228.1	236.5	229.4	226.1	215.7
37.5°	113.1	113.1	115.7	106.6	101.4
40°	48.7	50.0	47.4	44.8	40.9
42.5°	24.7	24.7	26.0	22.1	21.4
45°	17.5	17.5	19.5	16.9	16.2
47.5°	14.9	14.9	16.2	14.3	13.6
50°	13.0	13.0	13.6	12.3	11.7
52.5°	11.7	11.7	12.3	11.0	10.4
55°	10.4	10.4	10.4	9.7	9.1
57.5°	8.4	9.1	9.1	8.4	7.8
60°	7.1	7.1	7.8	7.1	6.5
62.5°	5.8	5.8	5.8	5.8	5.2
65°	3.9	3.9	4.5	3.9	3.2
67.5°	0.6	1.3	3.2	0.0	0.0
70°	0.0	0.0	0.6	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)