

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: P402109

Luminaire Tested: **LA1MR052D010 EA1M52309035MMS1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402109
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: LA1MR052D010 EA1M52309035MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

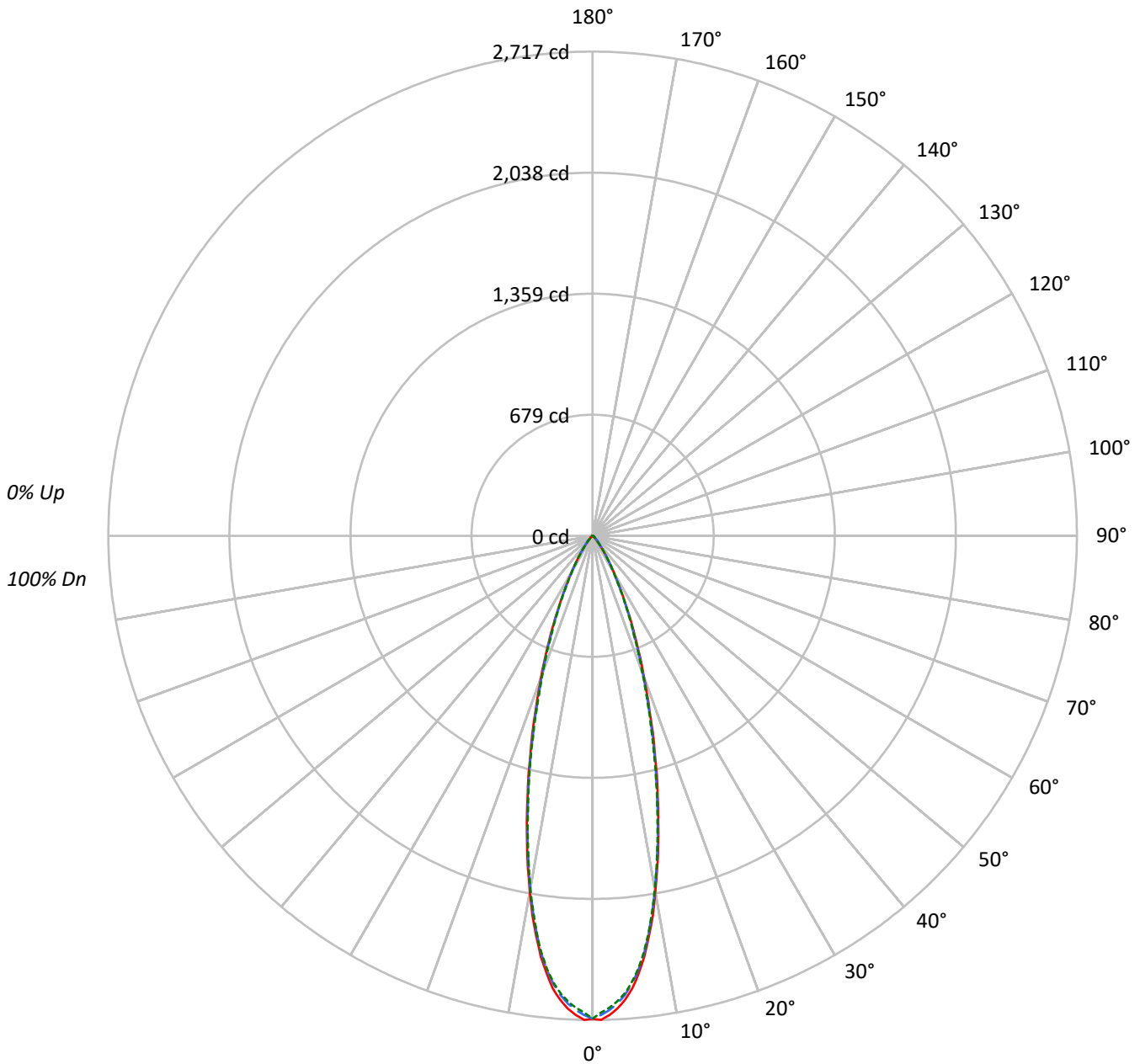
Lumens per Lamp: N/A
Luminaire Lumens: 923.8 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 12.1
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					20					
RC	80					70					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	105	103	102	101	100	99	98	97	95				95				
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91				91				
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87				87				
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83				83				
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79				79				
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76				76				
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73				73				
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70				70				
9	85	77	73	69	84	77	72	69	76	72	69	75	71	69	74	71	69	67				67				
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65				65				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	840229	840229	840229
5°	793804	785713	783162
10°	638288	633471	632716
15°	446488	438914	437020
20°	278565	271538	268437
25°	161174	156316	154298
30°	85803	83297	81579
35°	41137	42461	41553
40°	17199	23431	17684
45°	8812	14511	9338
50°	5691	8536	6270
55°	3837	5729	4486
60°	2170	3658	2914
65°	880	2567	880
70°	0	1088	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	24.4
10°-20°	375.7	40.7
20°-30°	216.1	23.4
30°-40°	75.2	8.1
40°-50°	21.3	2.3
50°-60°	8.2	0.9
60°-70°	2.2	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°	816.8	88.4
0°-40°	892.0	96.6
0°-60°	921.5	99.8
0°-90°	923.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	923.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2710	2710	2710	2710	2710	
5°	2551	2536	2525	2530	2517	227
15°	1391	1385	1368	1364	1362	380
25°	471	465	457	455	451	221
35°	109	113	112	112	110	73
45°	20	24	33	24	21	17
55°	7	8	11	8	8	7
65°	1	2	4	2	1	1
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°	2710.4	2710.4	2710.4	2710.4	2710.4
1°	2717.4	2704.5	2690.3	2690.3	2676.1
2°	2691.5	2679.7	2664.3	2665.5	2650.1
3°	2657.2	2645.4	2630.1	2632.4	2618.2
4°	2610.0	2594.6	2584.0	2587.5	2574.5
5°	2550.9	2535.6	2524.9	2529.7	2516.7
6°	2470.6	2460.0	2450.5	2456.4	2444.6
7°	2380.9	2369.1	2362.0	2366.7	2357.2
8°	2271.0	2262.8	2254.5	2259.2	2249.8
9°	2158.8	2145.8	2137.6	2141.1	2134.0
10°	2027.7	2021.8	2012.4	2015.9	2010.0
11°	1901.4	1901.4	1883.7	1877.8	1881.3
12°	1771.5	1770.3	1753.8	1746.7	1749.0
13°	1640.4	1639.2	1622.7	1616.8	1617.9
14°	1510.5	1511.7	1493.9	1489.2	1488.0
15°	1391.2	1385.3	1367.6	1364.0	1361.7
16°	1266.0	1264.8	1247.1	1242.4	1240.0
17°	1153.8	1147.9	1130.2	1125.5	1121.9
18°	1036.9	1038.1	1020.4	1016.8	1010.9
19°	937.7	935.3	918.8	915.3	909.4
20°	844.4	833.8	823.1	819.6	813.7
22.5°	636.6	630.6	616.5	612.9	611.7
25°	471.2	465.3	457.0	454.7	451.1
26°	412.2	413.3	402.7	400.4	398.0
27°	364.9	362.6	353.1	351.9	348.4
28°	314.1	316.5	305.9	304.7	302.3
29°	274.0	274.0	268.1	264.5	262.2
30°	239.7	238.6	232.7	230.3	227.9
32.5°	165.3	164.2	161.8	160.6	158.3
35°	108.7	113.4	112.2	112.2	109.8
37.5°	67.3	76.8	80.3	79.1	72.0
40°	42.5	49.6	57.9	53.1	43.7
42.5°	28.3	34.2	42.5	35.4	28.3
45°	20.1	23.6	33.1	23.6	21.3
47.5°	15.4	17.7	24.8	17.7	15.4
50°	11.8	14.2	17.7	14.2	13.0
52.5°	9.4	10.6	14.2	10.6	9.4
55°	7.1	8.3	10.6	8.3	8.3
57.5°	5.9	7.1	8.3	7.1	5.9
60°	3.5	4.7	5.9	4.7	4.7
62.5°	2.4	3.5	4.7	3.5	2.4
65°	1.2	2.4	3.5	2.4	1.2
67.5°	0.0	1.2	1.2	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	1.2	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)