

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: P402113

Luminaire Tested: **LA1MR052D010 EA1M52309040MMS1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402113
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 EA1M52309040MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

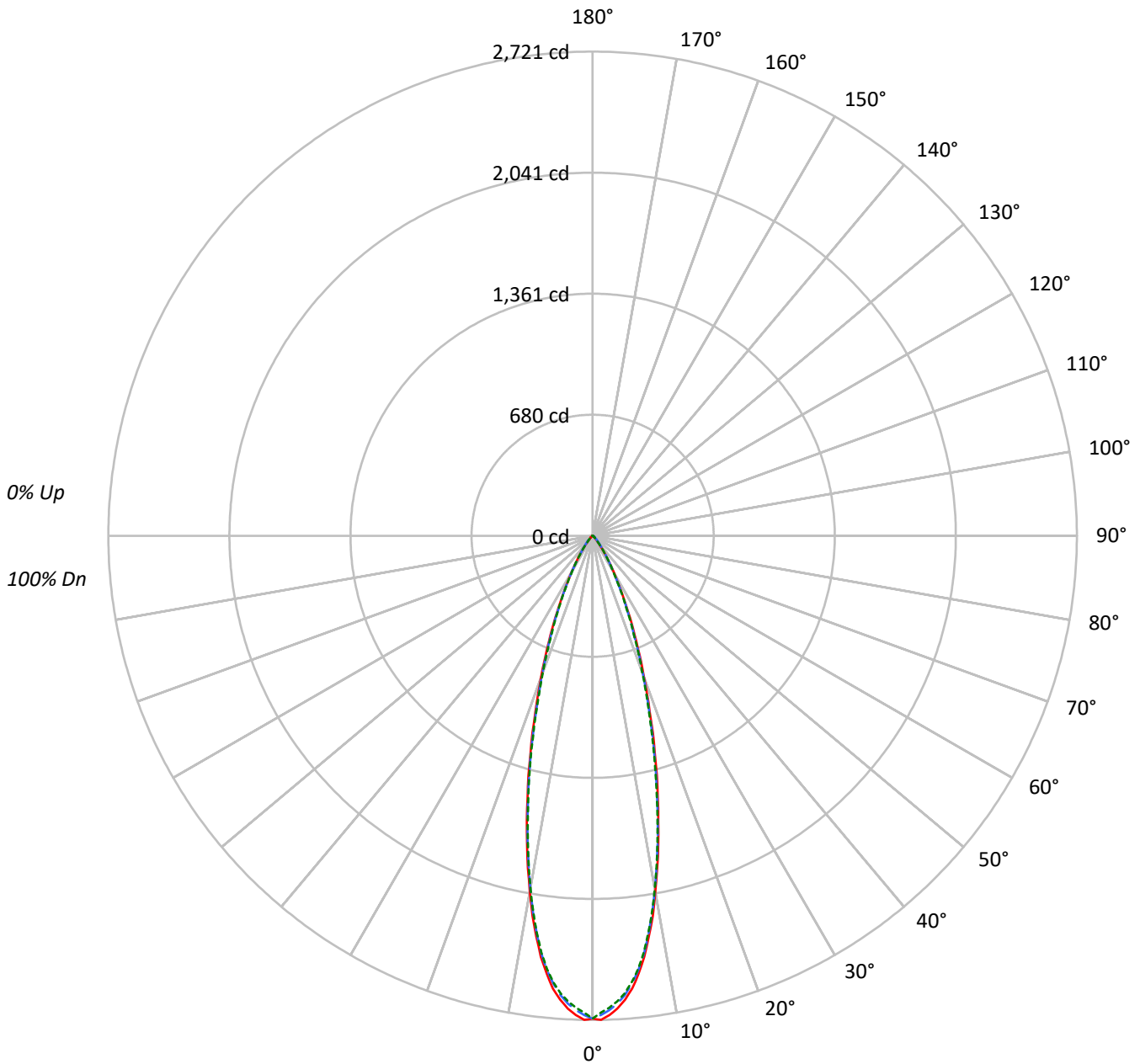
Lumens per Lamp: N/A
Luminaire Lumens: 925.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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°	841314	841314	841314
5°	794862	786771	784188
10°	639137	634321	633566
15°	447066	439492	437598
20°	278928	271901	268800
25°	161379	156522	154504
30°	85946	83404	81686
35°	41175	42499	41629
40°	17239	23431	17725
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°	225.4	24.4
10°-20°	376.2	40.7
20°-30°	216.4	23.4
30°-40°	75.3	8.1
40°-50°	21.4	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°	817.9	88.4
0°-40°	893.2	96.6
0°-60°	922.7	99.8
0°-90°	925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2714	2714	2714	2714	2714	
5°	2554	2539	2528	2533	2520	227
15°	1393	1387	1369	1366	1364	380
25°	472	466	458	455	452	221
35°	109	114	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°	2713.9	2713.9	2713.9	2713.9	2713.9
1°	2721.0	2708.0	2693.8	2693.8	2679.6
2°	2695.0	2683.2	2667.8	2669.0	2653.6
3°	2660.7	2648.9	2633.5	2635.9	2621.7
4°	2613.4	2598.1	2587.4	2591.0	2578.0
5°	2554.3	2538.9	2528.3	2533.0	2520.0
6°	2473.9	2463.2	2453.8	2459.7	2447.9
7°	2384.0	2372.2	2365.1	2369.8	2360.4
8°	2274.0	2265.8	2257.5	2262.2	2252.7
9°	2161.7	2148.7	2140.4	2144.0	2136.9
10°	2030.4	2024.5	2015.1	2018.6	2012.7
11°	1903.9	1903.9	1886.2	1880.2	1883.8
12°	1773.8	1772.6	1756.1	1749.0	1751.4
13°	1642.6	1641.4	1624.8	1618.9	1620.1
14°	1512.5	1513.7	1495.9	1491.2	1490.0
15°	1393.0	1387.1	1369.4	1365.8	1363.5
16°	1267.7	1266.5	1248.8	1244.0	1241.7
17°	1155.3	1149.4	1131.7	1127.0	1123.4
18°	1038.3	1039.5	1021.7	1018.2	1012.3
19°	938.9	936.6	920.0	916.5	910.6
20°	845.5	834.9	824.2	820.7	814.8
22.5°	637.4	631.5	617.3	613.7	612.6
25°	471.8	465.9	457.6	455.3	451.7
26°	412.7	413.9	403.2	400.9	398.5
27°	365.4	363.0	353.6	352.4	348.9
28°	314.6	316.9	306.3	305.1	302.7
29°	274.4	274.4	268.4	264.9	262.5
30°	240.1	238.9	233.0	230.6	228.2
32.5°	165.6	164.4	162.0	160.8	158.5
35°	108.8	113.5	112.3	112.3	110.0
37.5°	67.4	76.9	80.4	79.2	72.1
40°	42.6	49.7	57.9	53.2	43.8
42.5°	28.4	34.3	42.6	35.5	28.4
45°	20.1	23.7	33.1	23.7	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°	9.5	10.6	14.2	10.6	9.5
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)