

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: P402045

Luminaire Tested: **LA1MR152D010 EA1M152309035MMS1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402045
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: LA1MR152D010 EA1M152309035MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

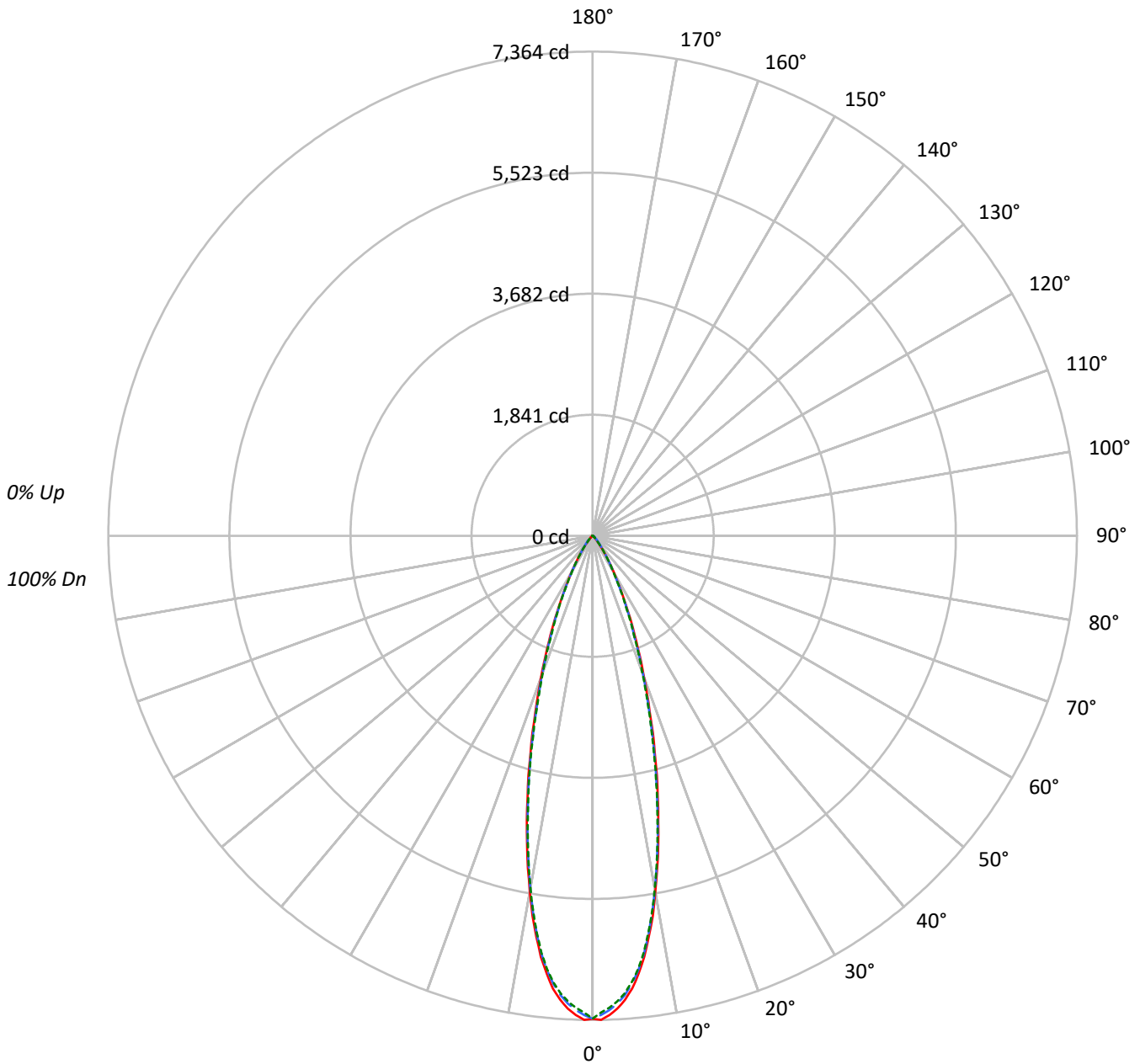
Lumens per Lamp: N/A
Luminaire Lumens: 2503.5 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 34.2
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°	2277056	2277056	2277056
5°	2151290	2129383	2122412
10°	1729864	1716738	1714723
15°	1210030	1189458	1184323
20°	754936	735934	727489
25°	436797	423662	418189
30°	232566	225693	221111
35°	111451	115084	112662
40°	46619	63454	47914
45°	23849	39281	25252
50°	15433	23149	16976
55°	10377	15566	12107
60°	5952	9920	7936
65°	2347	7042	2347
70°	0	2900	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.0	24.4
10°-20°	1018.1	40.7
20°-30°	585.7	23.4
30°-40°	203.8	8.1
40°-50°	57.8	2.3
50°-60°	22.1	0.9
60°-70°	6.0	0.2
70°-80°	0.1	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°	2213.7	88.4
0°-40°	2417.5	96.6
0°-60°	2497.4	99.8
0°-90°	2503.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2503.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7345	7345	7345	7345	7345	
5°	6913	6872	6843	6856	6820	614
15°	3770	3754	3706	3697	3690	1029
25°	1277	1261	1239	1232	1223	599
35°	294	307	304	304	298	199
45°	54	64	90	64	58	47
55°	19	22	29	22	22	18
65°	3	6	10	6	3	4
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°	7345.3	7345.3	7345.3	7345.3	7345.3
1°	7364.5	7329.3	7290.9	7290.9	7252.5
2°	7294.1	7262.1	7220.5	7223.7	7182.0
3°	7201.2	7169.2	7127.6	7134.0	7095.6
4°	7073.2	7031.6	7002.8	7012.4	6977.2
5°	6913.2	6871.6	6842.8	6855.6	6820.4
6°	6695.6	6666.8	6641.2	6657.2	6625.1
7°	6452.3	6420.3	6401.1	6413.9	6388.3
8°	6154.7	6132.3	6109.9	6122.7	6097.1
9°	5850.6	5815.4	5793.0	5802.6	5783.4
10°	5495.4	5479.3	5453.7	5463.3	5447.3
11°	5152.9	5152.9	5104.9	5088.9	5098.5
12°	4800.8	4797.6	4752.8	4733.6	4740.0
13°	4445.6	4442.4	4397.6	4381.6	4384.8
14°	4093.5	4096.7	4048.7	4035.9	4032.7
15°	3770.3	3754.3	3706.2	3696.6	3690.2
16°	3431.0	3427.8	3379.8	3367.0	3360.6
17°	3126.9	3110.9	3062.9	3050.1	3040.5
18°	2810.1	2813.3	2765.3	2755.7	2739.7
19°	2541.2	2534.8	2490.0	2480.4	2464.4
20°	2288.4	2259.6	2230.8	2221.2	2205.2
22.5°	1725.1	1709.1	1670.7	1661.1	1657.9
25°	1277.0	1261.0	1238.6	1232.2	1222.6
26°	1117.0	1120.2	1091.4	1085.0	1078.6
27°	989.0	982.6	957.0	953.8	944.2
28°	851.3	857.7	828.9	825.7	819.3
29°	742.5	742.5	726.5	716.9	710.5
30°	649.7	646.5	630.5	624.1	617.7
32.5°	448.1	444.9	438.5	435.3	428.9
35°	294.5	307.3	304.1	304.1	297.7
37.5°	182.4	208.0	217.6	214.4	195.2
40°	115.2	134.4	156.8	144.0	118.4
42.5°	76.8	92.8	115.2	96.0	76.8
45°	54.4	64.0	89.6	64.0	57.6
47.5°	41.6	48.0	67.2	48.0	41.6
50°	32.0	38.4	48.0	38.4	35.2
52.5°	25.6	28.8	38.4	28.8	25.6
55°	19.2	22.4	28.8	22.4	22.4
57.5°	16.0	19.2	22.4	19.2	16.0
60°	9.6	12.8	16.0	12.8	12.8
62.5°	6.4	9.6	12.8	9.6	6.4
65°	3.2	6.4	9.6	6.4	3.2
67.5°	0.0	3.2	3.2	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	3.2	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)