

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: P401997

Luminaire Tested: **LA1MR102D010 EA1M102WW9035MMS1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P401997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1912-604-14)
Test Lab: INNOVATION CENTER (G3)
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LA1MR102D010 EA1M102WW9035MMS1MW
Description: 1 INCH WW OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

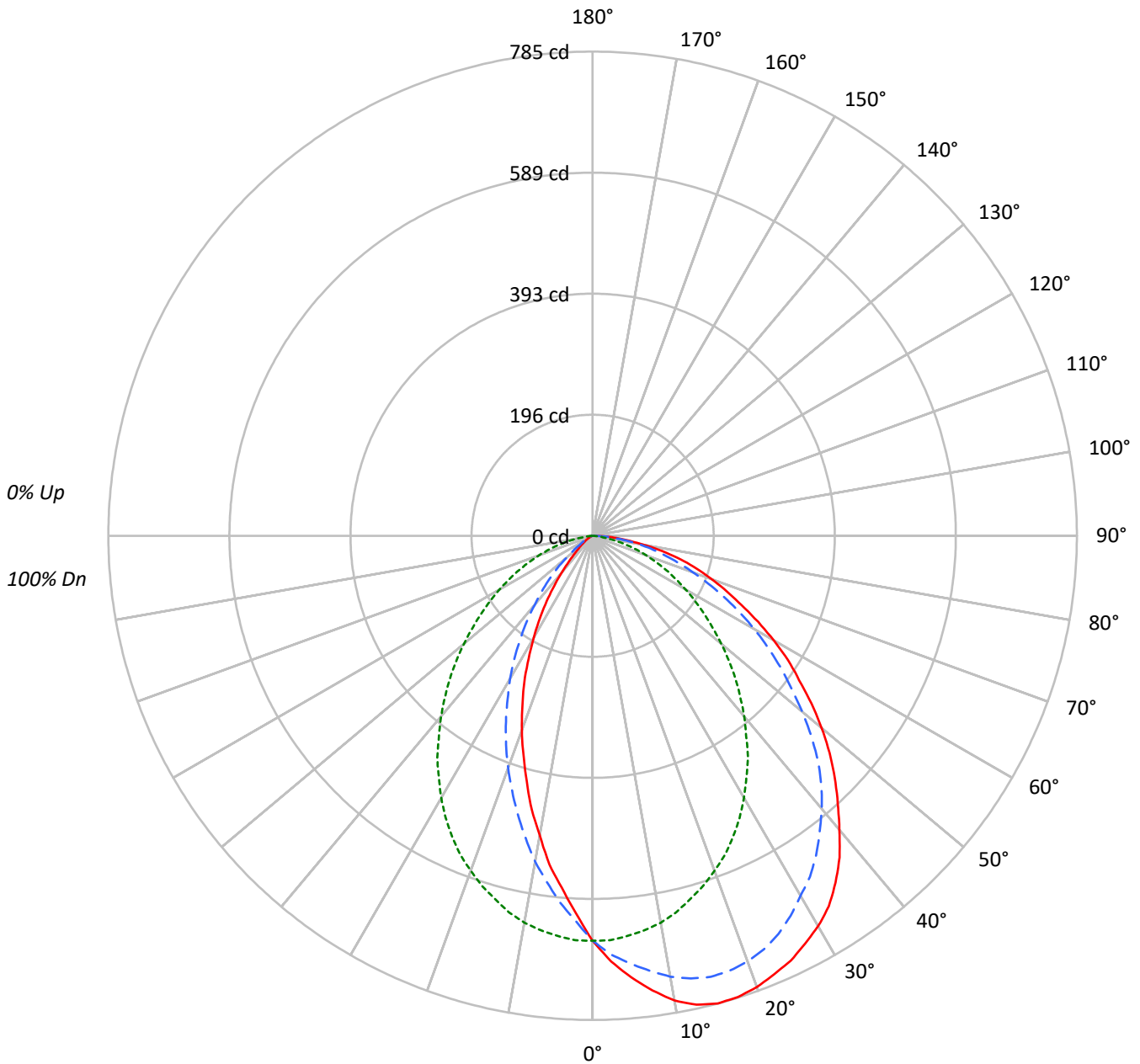
Lumens per Lamp: N/A
Luminaire Lumens: 1367.5 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.13 / 1.2
Luminous Opening: Rectangular (W 0.1' x L: 0.88' x H: 0')
CIE Type: Direct

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				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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63				63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55				55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	77529	77529	77529
5°	85187	77209	67880
10°	91760	76363	59107
15°	95963	74567	50384
20°	97863	72615	42164
25°	99044	70168	34140
30°	99696	66928	25977
35°	98971	63304	18655
40°	95935	58905	11978
45°	92692	54646	6914
50°	89032	50028	4575
55°	84210	45420	2780
60°	79974	41097	1960
65°	74358	36746	1146
70°	70784	31835	725
75°	67576	25506	0
80°	57739	16186	0
85°	47696	5555	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	4.5
10°-20°	170.0	12.4
20°-30°	240.6	17.6
30°-40°	262.9	19.2
40°-50°	238.7	17.5
50°-60°	187.1	13.7
60°-70°	125.4	9.2
70°-80°	65.6	4.8
80°-90°	15.9	1.2
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°	472.0	34.5
0°-40°	734.9	53.7
0°-60°	1160.7	84.9
0°-90°	1367.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1367.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	656	656	656	656	656	
5°	719	696	651	598	573	70
15°	785	740	610	468	412	221
25°	760	712	538	332	262	350
35°	686	632	439	204	129	428
45°	555	517	327	98	41	428
55°	409	372	221	26	14	367
65°	266	235	132	9	4	266
75°	148	119	56	2	0	154
85°	35	29	4	0	0	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5
2.5°	690.7	687.6	679.3	671.0	656.5	642.0	625.4	619.2	613.0
5°	718.6	710.4	695.9	678.3	651.3	624.4	597.5	580.9	572.6
7.5°	743.5	734.2	711.4	683.4	645.1	604.7	566.4	542.6	537.4
10°	765.2	754.9	725.9	686.5	636.8	583.0	536.4	506.4	492.9
12.5°	778.7	766.3	735.2	685.5	625.4	559.2	502.2	469.1	455.6
15°	784.9	772.5	740.4	682.4	609.9	535.4	468.0	426.6	412.1
17.5°	783.9	772.5	739.4	678.3	595.4	508.4	433.9	392.5	372.8
20°	778.7	767.3	734.2	671.0	577.8	481.5	400.7	352.1	335.5
22.5°	769.4	757.0	725.9	660.7	560.2	453.6	366.6	314.8	297.2
25°	760.1	744.5	712.4	647.2	538.5	423.5	332.4	279.6	262.0
27.5°	745.6	731.1	694.8	630.6	515.7	394.5	298.2	244.4	224.7
30°	731.1	715.5	674.1	612.0	490.8	363.5	267.2	209.2	190.5
32.5°	712.4	696.9	655.5	588.2	463.9	333.4	236.1	179.1	159.5
35°	686.5	674.1	631.7	562.3	439.1	301.3	204.0	148.1	129.4
37.5°	657.5	647.2	604.7	536.4	409.0	273.4	175.0	121.2	102.5
40°	622.3	615.1	577.8	507.4	382.1	244.4	146.0	95.3	77.7
42.5°	588.2	582.0	548.8	477.4	354.1	216.4	121.2	70.4	57.0
45°	555.0	546.7	516.7	445.3	327.2	191.6	98.4	50.7	41.4
47.5°	520.9	511.5	480.5	413.2	299.3	165.7	76.6	36.2	31.1
50°	484.6	475.3	443.2	382.1	272.3	141.9	54.9	28.0	24.9
52.5°	447.3	438.0	405.9	352.1	245.4	118.0	39.3	21.7	18.6
55°	409.0	400.7	371.7	320.0	220.6	97.3	25.9	16.6	13.5
57.5°	375.9	366.6	336.5	292.0	196.7	77.7	19.7	12.4	10.4
60°	338.6	328.3	302.4	262.0	174.0	59.0	15.5	9.3	8.3
62.5°	302.4	294.1	268.2	230.9	152.2	43.5	11.4	7.2	6.2
65°	266.1	257.8	235.1	204.0	131.5	30.0	9.3	5.2	4.1
67.5°	235.1	225.7	203.0	174.0	110.8	18.6	6.2	4.1	3.1
70°	205.0	194.7	172.9	148.1	92.2	10.4	4.1	2.1	2.1
72.5°	176.0	166.7	145.0	123.2	73.5	7.2	3.1	1.0	1.0
75°	148.1	142.9	119.1	98.4	55.9	5.2	2.1	1.0	0.0
77.5°	116.0	109.8	96.3	73.5	39.3	3.1	1.0	0.0	0.0
80°	84.9	79.7	73.5	53.8	23.8	2.1	0.0	0.0	0.0
82.5°	55.9	55.9	49.7	36.2	12.4	1.0	0.0	0.0	0.0
85°	35.2	33.1	29.0	19.7	4.1	0.0	0.0	0.0	0.0
87.5°	15.5	14.5	12.4	7.2	1.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)