

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: P402345

Luminaire Tested: **LA1MRT102D010TRWW9030MMS1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402345  
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: LA1MRT102D010TRWW9030MMS1MW  
Description: 1 INCH WW OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

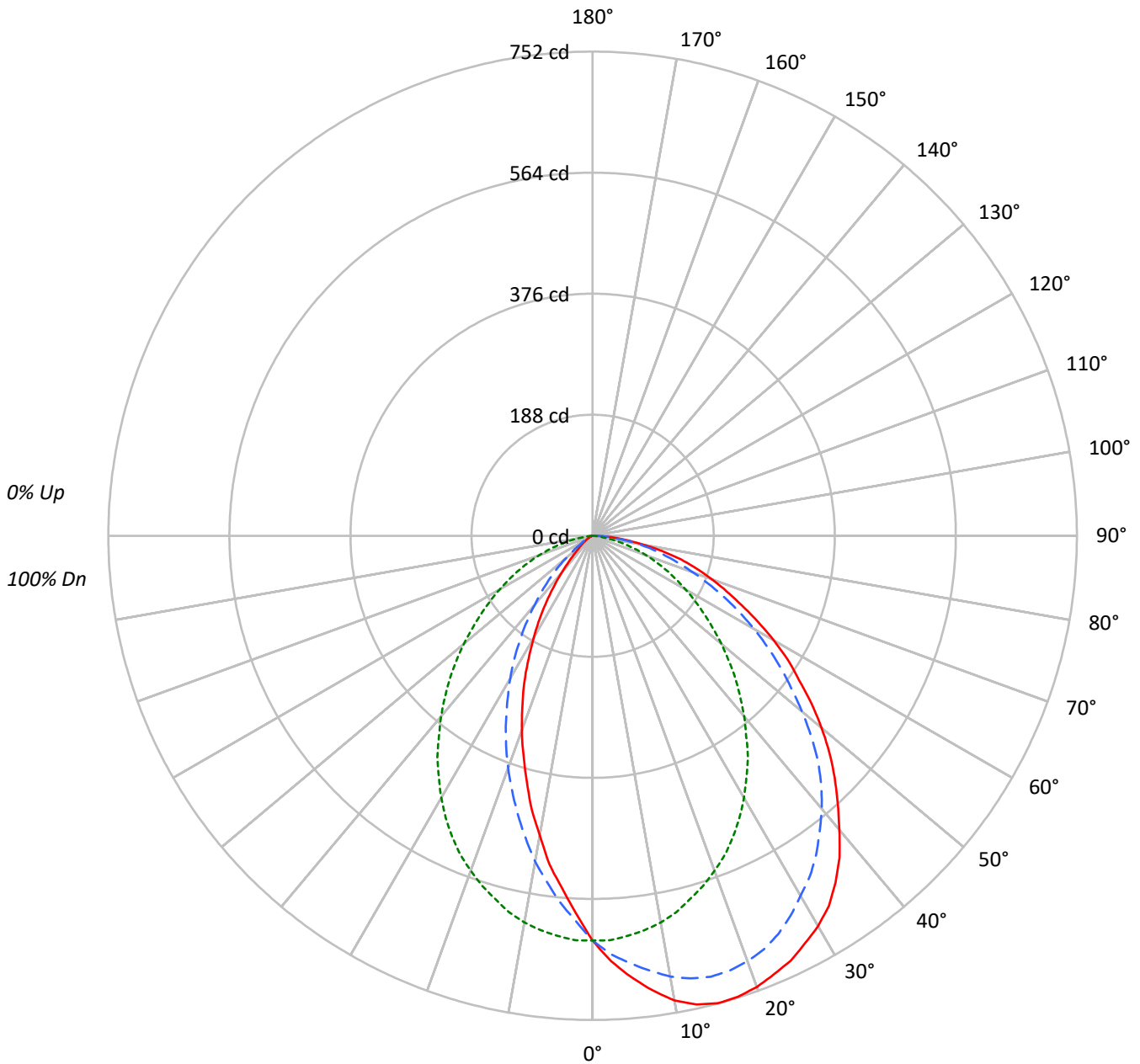
Lumens per Lamp: N/A  
Luminaire Lumens: 1309.7 lumens  
Efficiency: N/A  
Efficacy: 55.7 lumens/watt  
Spacing Criteria (0/90/45): 1.07 / 1.13 / 1.2  
Luminous Opening: Rectangular (W 0.1' x L: 0.88' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	74246	74246	74246
5°	81584	73949	65011
10°	87887	73137	56601
15°	91904	71413	48256
20°	93715	69548	40379
25°	94848	67198	32693
30°	95469	64105	24887
35°	94790	60622	17877
40°	91881	56408	11470
45°	88767	52341	6630
50°	85266	47915	4373
55°	80648	43485	2656
60°	76597	39349	1866
65°	71228	35181	1118
70°	67814	30489	691
75°	64701	24457	0
80°	55291	15506	0
85°	45663	5420	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	4.5
10°-20°	162.8	12.4
20°-30°	230.4	17.6
30°-40°	251.8	19.2
40°-50°	228.6	17.5
50°-60°	179.2	13.7
60°-70°	120.1	9.2
70°-80°	62.8	4.8
80°-90°	15.2	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°	452.0	34.5
0°-40°	703.8	53.7
0°-60°	1111.6	84.9
0°-90°	1309.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	629	629	629	629	629	
5°	688	666	624	572	548	67
15°	752	709	584	448	395	212
25°	728	682	516	318	251	335
35°	658	605	420	195	124	410
45°	532	495	313	94	40	410
55°	392	356	211	25	13	352
65°	255	225	126	9	4	255
75°	142	114	54	2	0	148
85°	34	28	4	0	0	39
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°	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7	628.7
2.5°	661.5	658.5	650.5	642.6	628.7	614.8	599.0	593.0	587.1
5°	688.2	680.3	666.4	649.6	623.8	598.0	572.2	556.3	548.4
7.5°	712.0	703.1	681.3	654.5	617.8	579.1	542.4	519.6	514.7
10°	732.9	722.9	695.2	657.5	609.9	558.3	513.7	484.9	472.0
12.5°	745.7	733.8	704.1	656.5	599.0	535.5	481.0	449.2	436.3
15°	751.7	739.8	709.1	653.5	584.1	512.7	448.2	408.6	394.7
17.5°	750.7	739.8	708.1	649.6	570.2	486.9	415.5	375.8	357.0
20°	745.7	734.8	703.1	642.6	553.4	461.1	383.8	337.2	321.3
22.5°	736.8	724.9	695.2	632.7	536.5	434.4	351.1	301.5	284.6
25°	727.9	713.0	682.3	619.8	515.7	405.6	318.3	267.8	250.9
27.5°	714.0	700.1	665.4	603.9	493.9	377.8	285.6	234.0	215.2
30°	700.1	685.3	645.6	586.1	470.1	348.1	255.9	200.3	182.5
32.5°	682.3	667.4	627.7	563.3	444.3	319.3	226.1	171.6	152.7
35°	657.5	645.6	604.9	538.5	420.5	288.6	195.4	141.8	124.0
37.5°	629.7	619.8	579.1	513.7	391.7	261.8	167.6	116.0	98.2
40°	596.0	589.1	553.4	485.9	365.9	234.0	139.8	91.2	74.4
42.5°	563.3	557.3	525.6	457.2	339.2	207.3	116.0	67.4	54.5
45°	531.5	523.6	494.8	426.4	313.4	183.5	94.2	48.6	39.7
47.5°	498.8	489.9	460.1	395.7	286.6	158.7	73.4	34.7	29.8
50°	464.1	455.2	424.4	365.9	260.8	135.9	52.6	26.8	23.8
52.5°	428.4	419.5	388.7	337.2	235.0	113.1	37.7	20.8	17.9
55°	391.7	383.8	356.0	306.4	211.2	93.2	24.8	15.9	12.9
57.5°	360.0	351.1	322.3	279.7	188.4	74.4	18.8	11.9	9.9
60°	324.3	314.4	289.6	250.9	166.6	56.5	14.9	8.9	7.9
62.5°	289.6	281.6	256.8	221.1	145.8	41.7	10.9	6.9	6.0
65°	254.9	246.9	225.1	195.4	125.9	28.8	8.9	5.0	4.0
67.5°	225.1	216.2	194.4	166.6	106.1	17.9	6.0	4.0	3.0
70°	196.4	186.4	165.6	141.8	88.3	9.9	4.0	2.0	2.0
72.5°	168.6	159.7	138.8	118.0	70.4	6.9	3.0	1.0	1.0
75°	141.8	136.9	114.0	94.2	53.6	5.0	2.0	1.0	0.0
77.5°	111.1	105.1	92.2	70.4	37.7	3.0	1.0	0.0	0.0
80°	81.3	76.4	70.4	51.6	22.8	2.0	0.0	0.0	0.0
82.5°	53.6	53.6	47.6	34.7	11.9	1.0	0.0	0.0	0.0
85°	33.7	31.7	27.8	18.8	4.0	0.0	0.0	0.0	0.0
87.5°	14.9	13.9	11.9	6.9	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)