

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: P402165

Luminaire Tested: **LD1MR102D010 ED1M102WW9027MMS1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402165  
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: LD1MR102D010 ED1M102WW9027MMS1MW  
Description: 1 INCH WW OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

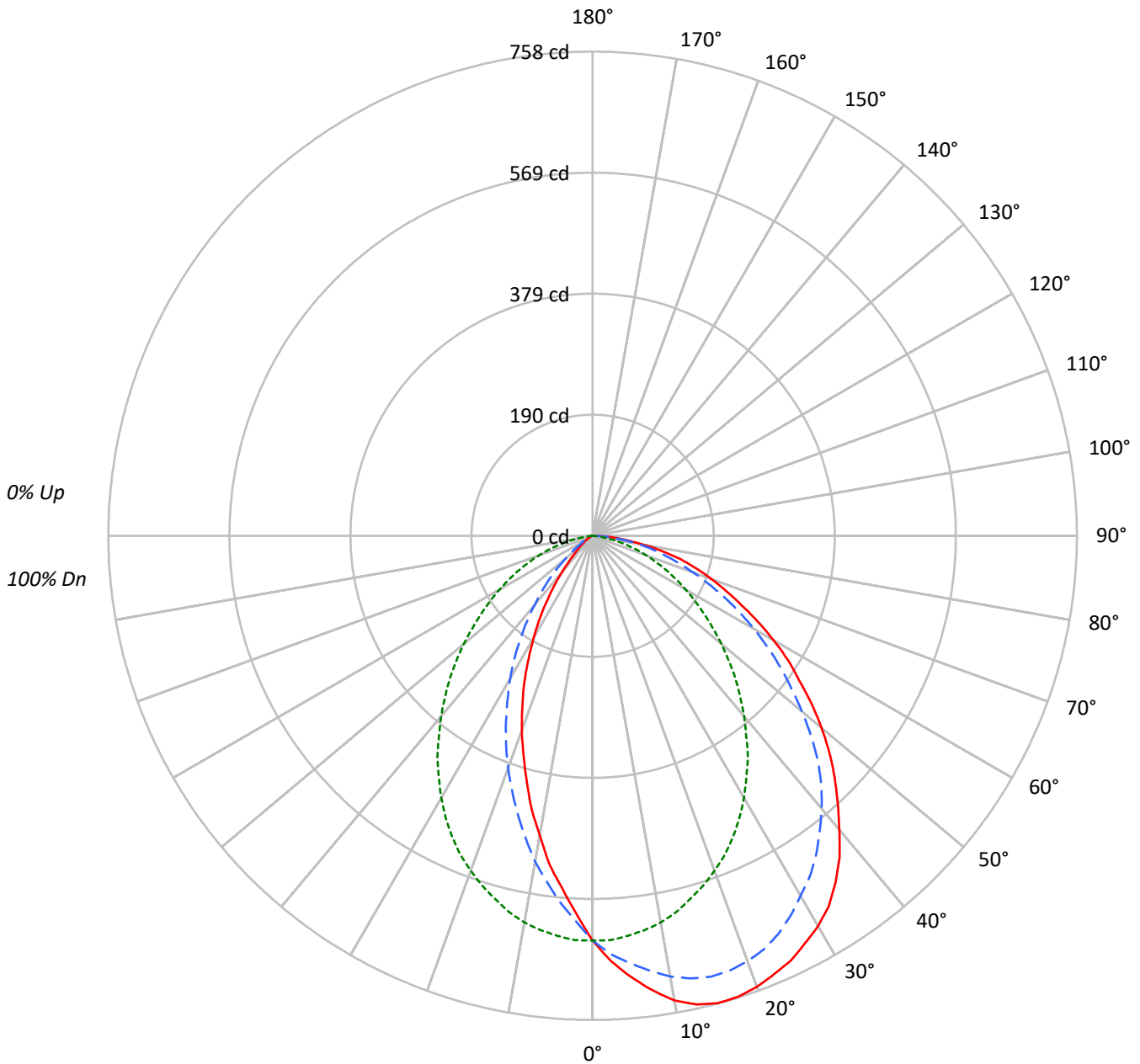
Lumens per Lamp: N/A  
Luminaire Lumens: 1320.0 lumens  
Efficiency: N/A  
Efficacy: 56.2 lumens/watt  
Spacing Criteria (0/90/45): 1.07 / 1.13 / 1.2  
Luminous Opening: Rectangular (W 0.1' x L: 0.88' x H: 0')  
CIE Type: Direct

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				
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			
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°	74837	74837	74837
5°	82236	74530	65521
10°	88583	73713	57056
15°	92625	71975	48635
20°	94457	70089	40693
25°	95604	67732	32954
30°	96232	64610	25077
35°	95540	61098	18007
40°	92605	56855	11562
45°	89468	52759	6680
50°	85946	48301	4409
55°	81286	43835	2677
60°	77187	39656	1890
65°	71787	35461	1118
70°	68332	30731	691
75°	65203	24639	0
80°	55767	15642	0
85°	46070	5420	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.2	4.5
10°-20°	164.1	12.4
20°-30°	232.3	17.6
30°-40°	253.8	19.2
40°-50°	230.4	17.5
50°-60°	180.6	13.7
60°-70°	121.0	9.2
70°-80°	63.3	4.8
80°-90°	15.3	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°	455.6	34.5
0°-40°	709.3	53.7
0°-60°	1120.4	84.9
0°-90°	1320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	634	634	634	634	634	
5°	694	672	629	577	553	68
15°	758	715	589	452	398	214
25°	734	688	520	321	253	338
35°	663	610	424	197	125	413
45°	536	499	316	95	40	413
55°	395	359	213	25	13	355
65°	257	227	127	9	4	257
75°	143	115	54	2	0	149
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°	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7	633.7
2.5°	666.7	663.7	655.7	647.7	633.7	619.7	603.7	597.7	591.7
5°	693.7	685.7	671.7	654.7	628.7	602.7	576.7	560.7	552.7
7.5°	717.7	708.7	686.7	659.7	622.7	583.7	546.7	523.8	518.8
10°	738.7	728.7	700.7	662.7	614.7	562.7	517.8	488.8	475.8
12.5°	751.6	739.7	709.7	661.7	603.7	539.7	484.8	452.8	439.8
15°	757.6	745.6	714.7	658.7	588.7	516.8	451.8	411.8	397.8
17.5°	756.6	745.6	713.7	654.7	574.7	490.8	418.8	378.8	359.8
20°	751.6	740.7	708.7	647.7	557.7	464.8	386.8	339.8	323.8
22.5°	742.7	730.7	700.7	637.7	540.7	437.8	353.8	303.9	286.9
25°	733.7	718.7	687.7	624.7	519.8	408.8	320.8	269.9	252.9
27.5°	719.7	705.7	670.7	608.7	497.8	380.8	287.9	235.9	216.9
30°	705.7	690.7	650.7	590.7	473.8	350.8	257.9	201.9	183.9
32.5°	687.7	672.7	632.7	567.7	447.8	321.8	227.9	172.9	153.9
35°	662.7	650.7	609.7	542.7	423.8	290.9	196.9	142.9	124.9
37.5°	634.7	624.7	583.7	517.8	394.8	263.9	168.9	116.9	99.0
40°	600.7	593.7	557.7	489.8	368.8	235.9	140.9	92.0	75.0
42.5°	567.7	561.7	529.8	460.8	341.8	208.9	116.9	68.0	55.0
45°	535.7	527.8	498.8	429.8	315.9	184.9	95.0	49.0	40.0
47.5°	502.8	493.8	463.8	398.8	288.9	159.9	74.0	35.0	30.0
50°	467.8	458.8	427.8	368.8	262.9	136.9	53.0	27.0	24.0
52.5°	431.8	422.8	391.8	339.8	236.9	113.9	38.0	21.0	18.0
55°	394.8	386.8	358.8	308.9	212.9	94.0	25.0	16.0	13.0
57.5°	362.8	353.8	324.8	281.9	189.9	75.0	19.0	12.0	10.0
60°	326.8	316.9	291.9	252.9	167.9	57.0	15.0	9.0	8.0
62.5°	291.9	283.9	258.9	222.9	146.9	42.0	11.0	7.0	6.0
65°	256.9	248.9	226.9	196.9	126.9	29.0	9.0	5.0	4.0
67.5°	226.9	217.9	195.9	167.9	106.9	18.0	6.0	4.0	3.0
70°	197.9	187.9	166.9	142.9	89.0	10.0	4.0	2.0	2.0
72.5°	169.9	160.9	139.9	118.9	71.0	7.0	3.0	1.0	1.0
75°	142.9	137.9	114.9	95.0	54.0	5.0	2.0	1.0	0.0
77.5°	111.9	106.0	93.0	71.0	38.0	3.0	1.0	0.0	0.0
80°	82.0	77.0	71.0	52.0	23.0	2.0	0.0	0.0	0.0
82.5°	54.0	54.0	48.0	35.0	12.0	1.0	0.0	0.0	0.0
85°	34.0	32.0	28.0	19.0	4.0	0.0	0.0	0.0	0.0
87.5°	15.0	14.0	12.0	7.0	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)