

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: P402168

Luminaire Tested: **LD1MR102D010 ED1M102WW9027SC1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1912-604-15)  
Test Lab: INNOVATION CENTER (G3)  
Issue Date: 6/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD1MR102D010 ED1M102WW9027SC1MW  
Description: 1 INCH WW OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

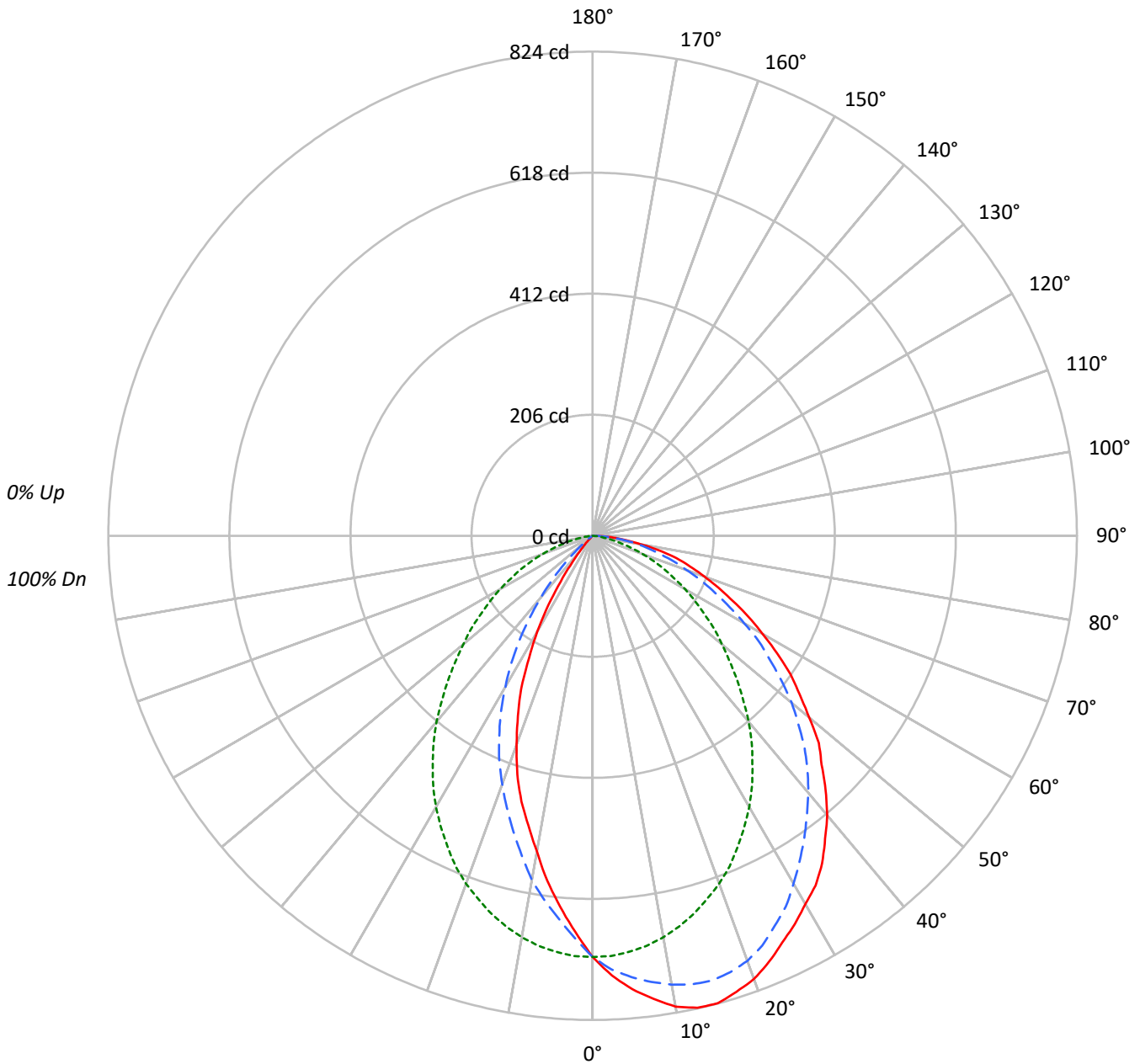
Lumens per Lamp: N/A  
Luminaire Lumens: 1387.0 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.12 / 1.15  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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	99	107	104	100	97	99	97	94	96	93	91	92	90	89	86																			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74																			
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64																			
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56																			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50																			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44																			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																			
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33																			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30																			

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

	0°	90°	180°
0°	57344	57344	57344
5°	62221	57081	50906
10°	66108	56360	44346
15°	68229	55143	38752
20°	68346	53626	32172
25°	67421	51541	25413
30°	66862	49227	17367
35°	66488	46282	9278
40°	64842	43120	3133
45°	62327	39360	339
50°	59852	35707	0
55°	57311	32344	0
60°	53424	29120	0
65°	49955	25366	0
70°	47249	21051	0
75°	45746	15764	0
80°	38699	9675	0
85°	33044	1836	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.8	4.8
10°-20°	183.7	13.2
20°-30°	254.7	18.4
30°-40°	267.0	19.2
40°-50°	234.1	16.9
50°-60°	181.6	13.1
60°-70°	120.2	8.7
70°-80°	63.2	4.6
80°-90°	15.7	1.1
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°	505.2	36.4
0°-40°	772.1	55.7
0°-60°	1187.8	85.6
0°-90°	1387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1387.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	717	717	717	717	717	
5°	775	754	711	655	634	75
15°	824	784	666	521	468	231
25°	764	733	584	376	288	353
35°	681	628	474	217	95	424
45°	551	510	348	69	3	427
55°	411	368	232	1	0	365
65°	264	230	134	0	0	263
75°	148	117	51	0	0	153
85°	36	29	2	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°	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8
2.5°	748.8	746.8	738.8	730.8	715.8	700.8	685.8	676.8	674.8
5°	774.8	768.8	753.8	738.8	710.8	684.8	654.8	638.9	633.9
7.5°	794.8	786.8	765.8	741.8	703.8	664.8	625.9	603.9	591.9
10°	813.8	804.8	775.8	740.8	693.8	639.9	594.9	560.9	545.9
12.5°	822.8	812.8	781.8	739.8	680.8	616.9	556.9	520.9	504.9
15°	823.8	813.8	783.8	731.8	665.8	589.9	520.9	479.9	467.9
17.5°	813.8	805.8	778.8	722.8	647.8	565.9	484.9	442.9	425.9
20°	802.8	792.8	769.8	711.8	629.9	535.9	449.9	397.9	377.9
22.5°	784.8	776.8	754.8	698.8	608.9	503.9	414.9	354.9	331.9
25°	763.8	753.8	732.8	681.8	583.9	469.9	375.9	312.9	287.9
27.5°	744.8	731.8	711.8	662.8	558.9	439.9	337.9	264.9	233.9
30°	723.8	712.8	683.8	638.9	532.9	404.9	296.9	215.9	188.0
32.5°	705.8	688.8	655.8	612.9	504.9	371.9	257.9	170.0	140.0
35°	680.8	666.8	627.9	582.9	473.9	339.9	216.9	123.0	95.0
37.5°	649.8	639.9	598.9	551.9	444.9	306.9	176.0	84.0	55.0
40°	620.9	608.9	570.9	520.9	412.9	275.9	136.0	49.0	30.0
42.5°	586.9	576.9	540.9	484.9	378.9	242.9	102.0	26.0	13.0
45°	550.9	541.9	509.9	449.9	347.9	214.0	69.0	11.0	3.0
47.5°	521.9	507.9	474.9	413.9	315.9	184.0	40.0	2.0	0.0
50°	480.9	474.9	441.9	376.9	286.9	156.0	22.0	0.0	0.0
52.5°	443.9	436.9	404.9	343.9	260.9	128.0	9.0	0.0	0.0
55°	410.9	400.9	367.9	311.9	231.9	97.0	1.0	0.0	0.0
57.5°	371.9	363.9	335.9	280.9	206.0	73.0	0.0	0.0	0.0
60°	333.9	328.9	297.9	252.9	182.0	48.0	0.0	0.0	0.0
62.5°	298.9	293.9	262.9	222.9	156.0	28.0	0.0	0.0	0.0
65°	263.9	257.9	229.9	196.0	134.0	14.0	0.0	0.0	0.0
67.5°	231.9	225.9	200.0	167.0	112.0	5.0	0.0	0.0	0.0
70°	202.0	194.0	170.0	142.0	90.0	1.0	0.0	0.0	0.0
72.5°	174.0	165.0	144.0	118.0	70.0	0.0	0.0	0.0	0.0
75°	148.0	140.0	117.0	95.0	51.0	0.0	0.0	0.0	0.0
77.5°	117.0	112.0	95.0	72.0	36.0	0.0	0.0	0.0	0.0
80°	84.0	83.0	73.0	52.0	21.0	0.0	0.0	0.0	0.0
82.5°	57.0	57.0	51.0	35.0	10.0	0.0	0.0	0.0	0.0
85°	36.0	33.0	29.0	20.0	2.0	0.0	0.0	0.0	0.0
87.5°	16.0	16.0	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)