

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: P402158

Luminaire Tested: **LD1MR102D010 ED1M102509035MW1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1912-604-8)  
Test Lab: INNOVATION CENTER (G3)  
Issue Date: 6/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD1MR102D010 ED1M102509035MW1MW  
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

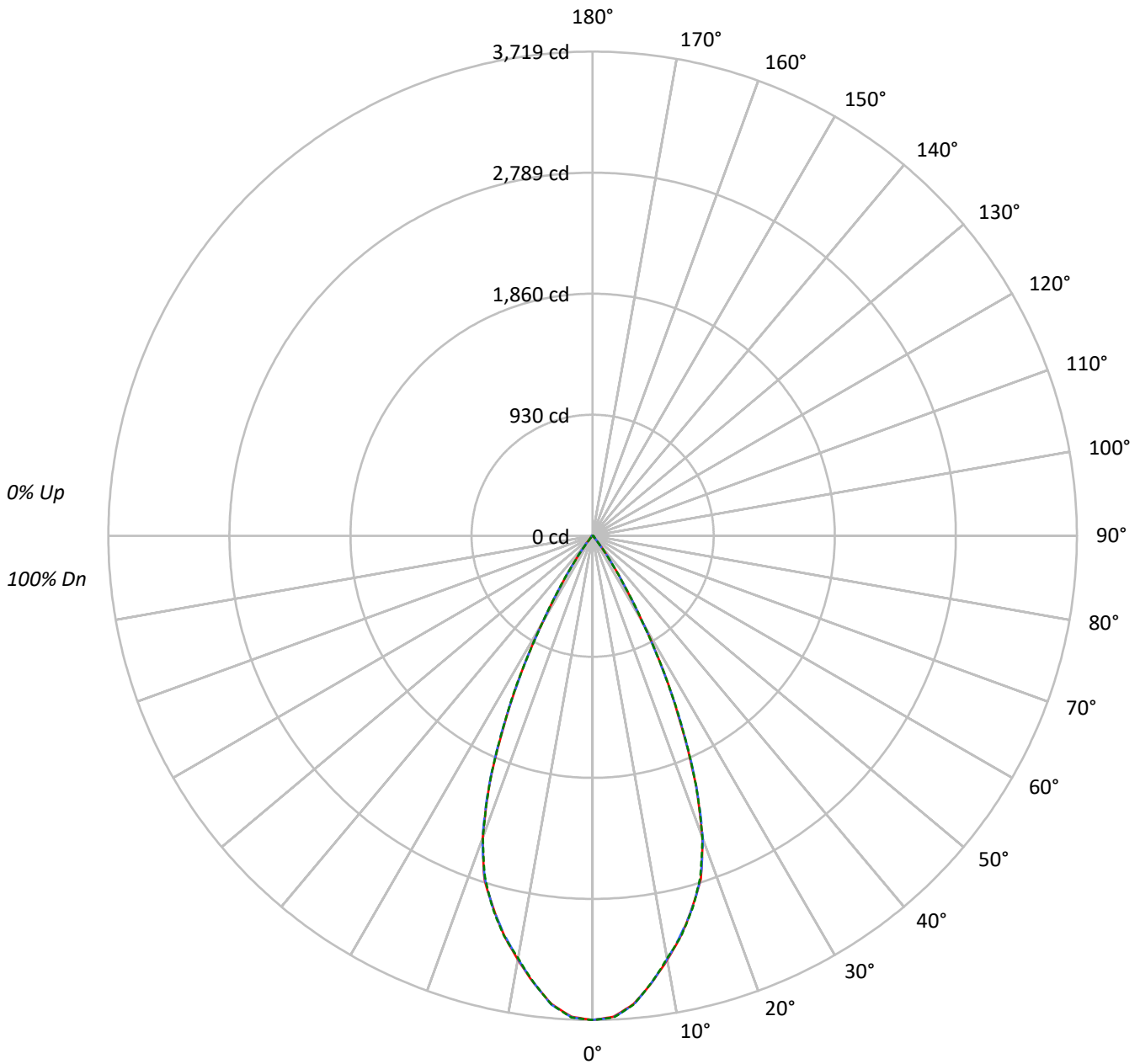
Lumens per Lamp: N/A  
Luminaire Lumens: 2099.1 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P402158

CATALOG NUMBER: LD1MR102D010 ED1M102509035MW1MW

### 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	104	103	102	101	100	99	98	97	95																			
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90																			
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85																			
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81																			
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77																			
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73																			
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70																			
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67																			
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64																			
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61																			

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

	0°	45°	90°
0°	297512	297512	297512
5°	289991	290377	290208
10°	268511	268121	267674
15°	244747	245029	245368
20°	209941	210588	209762
25°	142309	144066	143819
30°	70501	70945	70686
35°	23546	23683	22277
40°	5378	5232	4522
45°	2093	2331	1946
50°	1705	1792	1543
55°	1534	1534	1339
60°	1216	1312	1104
65°	776	909	644
70°	0	164	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.8	15.9
10°-20°	820.7	39.1
20°-30°	730.6	34.8
30°-40°	182.4	8.7
40°-50°	17.4	0.8
50°-60°	9.5	0.5
60°-70°	3.8	0.2
70°-80°	0.0	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°	1886.1	89.8
0°-40°	2068.4	98.5
0°-60°	2095.3	99.8
0°-90°	2099.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3719	3719	3719	3719	3719	
5°	3611	3624	3616	3613	3614	334
15°	2955	2970	2958	2953	2963	821
25°	1612	1630	1632	1643	1629	728
35°	241	250	242	239	228	181
45°	18	18	21	18	17	18
55°	11	11	11	10	10	10
65°	4	4	5	4	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°	3718.9	3718.9	3718.9	3718.9	3718.9
2.5°	3697.6	3714.1	3702.4	3703.1	3703.8
5°	3611.1	3624.1	3615.9	3613.1	3613.8
7.5°	3464.8	3476.4	3463.4	3468.2	3462.7
10°	3305.4	3317.1	3300.6	3300.6	3295.1
12.5°	3143.3	3155.7	3135.7	3133.7	3146.7
15°	2955.1	2970.2	2958.5	2953.0	2962.6
17.5°	2764.8	2762.7	2755.9	2752.4	2749.0
20°	2466.0	2478.4	2473.6	2453.0	2463.9
22.5°	2073.1	2073.8	2080.6	2084.1	2075.2
25°	1612.2	1630.0	1632.1	1643.1	1629.3
27.5°	1194.5	1198.0	1179.4	1180.8	1193.8
30°	763.2	773.5	768.0	773.5	765.2
32.5°	440.3	449.2	445.8	449.9	450.6
35°	241.1	250.0	242.5	239.0	228.1
37.5°	119.5	119.5	122.3	112.7	107.2
40°	51.5	52.9	50.1	47.4	43.3
42.5°	26.1	26.1	27.5	23.4	22.7
45°	18.5	18.5	20.6	17.9	17.2
47.5°	15.8	15.8	17.2	15.1	14.4
50°	13.7	13.7	14.4	13.1	12.4
52.5°	12.4	12.4	13.1	11.7	11.0
55°	11.0	11.0	11.0	10.3	9.6
57.5°	8.9	9.6	9.6	8.9	8.2
60°	7.6	7.6	8.2	7.6	6.9
62.5°	6.2	6.2	6.2	6.2	5.5
65°	4.1	4.1	4.8	4.1	3.4
67.5°	0.7	1.4	3.4	0.0	0.0
70°	0.0	0.0	0.7	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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°







(END OF REPORT)