

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: P402452

Luminaire Tested: **LD1MRT102D010TR509040SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402452  
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: LD1MRT102D010TR509040SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

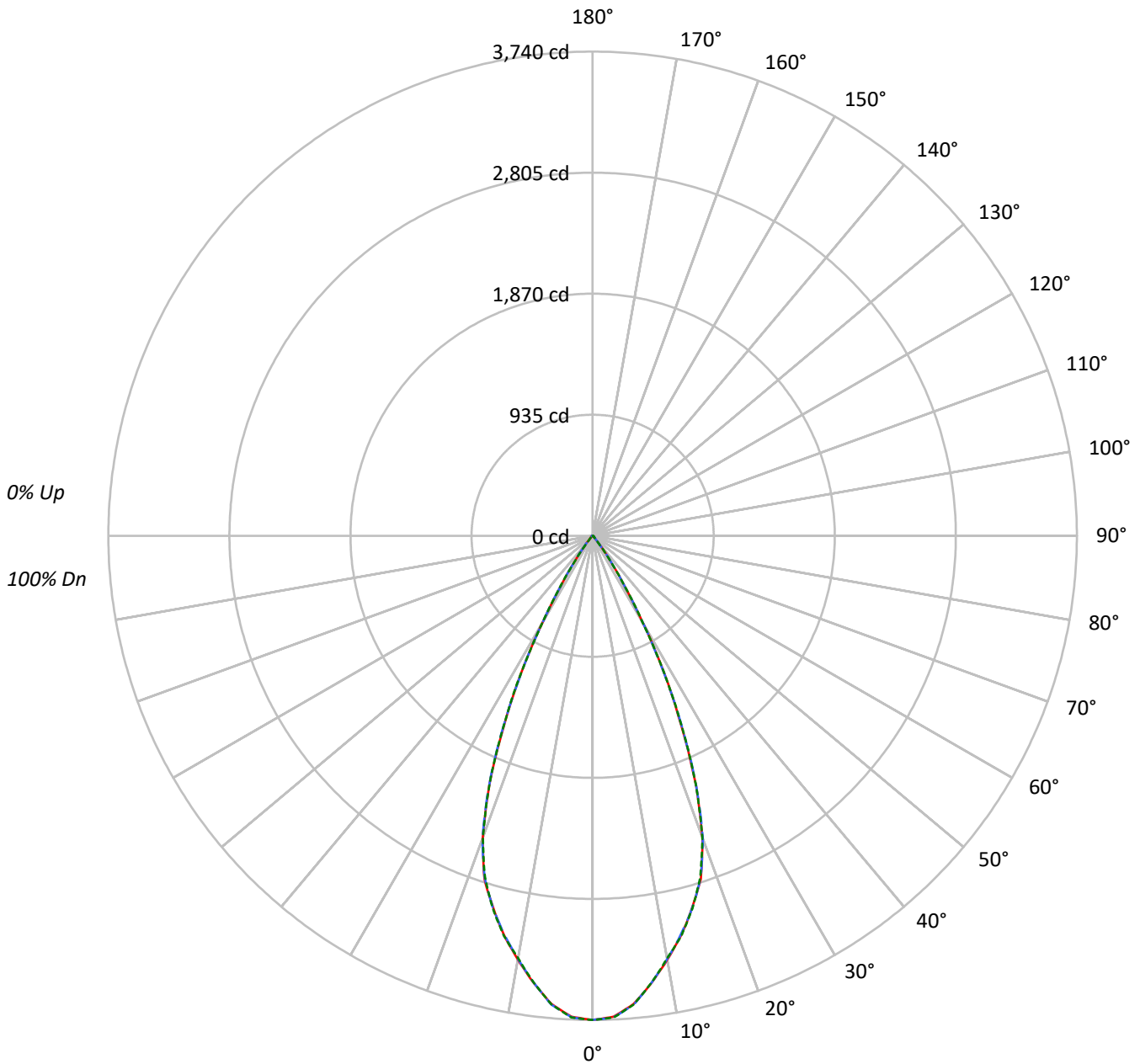
Lumens per Lamp: N/A  
Luminaire Lumens: 2111.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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: P402452

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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	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°	299192	299192	299192
5°	291621	292015	291846
10°	270022	269632	269185
15°	246122	246412	246752
20°	211124	211771	210945
25°	143112	144878	144631
30°	70899	71342	71083
35°	23683	23810	22394
40°	5410	5263	4543
45°	2116	2342	1957
50°	1718	1805	1543
55°	1548	1548	1353
60°	1216	1328	1104
65°	776	909	663
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°	336.6	15.9
10°-20°	825.3	39.1
20°-30°	734.7	34.8
30°-40°	183.4	8.7
40°-50°	17.5	0.8
50°-60°	9.6	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°	1896.7	89.8
0°-40°	2080.1	98.5
0°-60°	2107.1	99.8
0°-90°	2111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2111.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3740	3740	3740	3740	3740	
5°	3631	3645	3636	3634	3634	336
15°	2972	2987	2975	2970	2979	826
25°	1621	1639	1641	1652	1638	732
35°	242	251	244	240	229	182
45°	19	19	21	18	17	18
55°	11	11	11	10	10	10
65°	4	4	5	4	4	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°	3739.9	3739.9	3739.9	3739.9	3739.9
2.5°	3718.5	3735.0	3723.3	3724.0	3724.7
5°	3631.4	3644.6	3636.3	3633.5	3634.2
7.5°	3484.3	3496.0	3482.9	3487.7	3482.2
10°	3324.0	3335.8	3319.2	3319.2	3313.7
12.5°	3161.0	3173.4	3153.4	3151.3	3164.5
15°	2971.7	2986.9	2975.2	2969.7	2979.3
17.5°	2780.4	2778.3	2771.4	2768.0	2764.5
20°	2479.9	2492.3	2487.5	2466.8	2477.8
22.5°	2084.8	2085.5	2092.4	2095.8	2086.8
25°	1621.3	1639.2	1641.3	1652.3	1638.5
27.5°	1201.3	1204.7	1186.1	1187.4	1200.6
30°	767.5	777.8	772.3	777.8	769.5
32.5°	442.8	451.8	448.3	452.5	453.2
35°	242.5	251.4	243.8	240.4	229.3
37.5°	120.2	120.2	123.0	113.3	107.8
40°	51.8	53.2	50.4	47.7	43.5
42.5°	26.2	26.2	27.6	23.5	22.8
45°	18.7	18.7	20.7	18.0	17.3
47.5°	15.9	15.9	17.3	15.2	14.5
50°	13.8	13.8	14.5	13.1	12.4
52.5°	12.4	12.4	13.1	11.7	11.1
55°	11.1	11.1	11.1	10.4	9.7
57.5°	9.0	9.7	9.7	9.0	8.3
60°	7.6	7.6	8.3	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	3.5
67.5°	0.7	1.4	3.5	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)