

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: P402263

Luminaire Tested: **LD1MR022D010 ED1M22509027SB1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402263  
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: LD1MR022D010 ED1M22509027SB1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

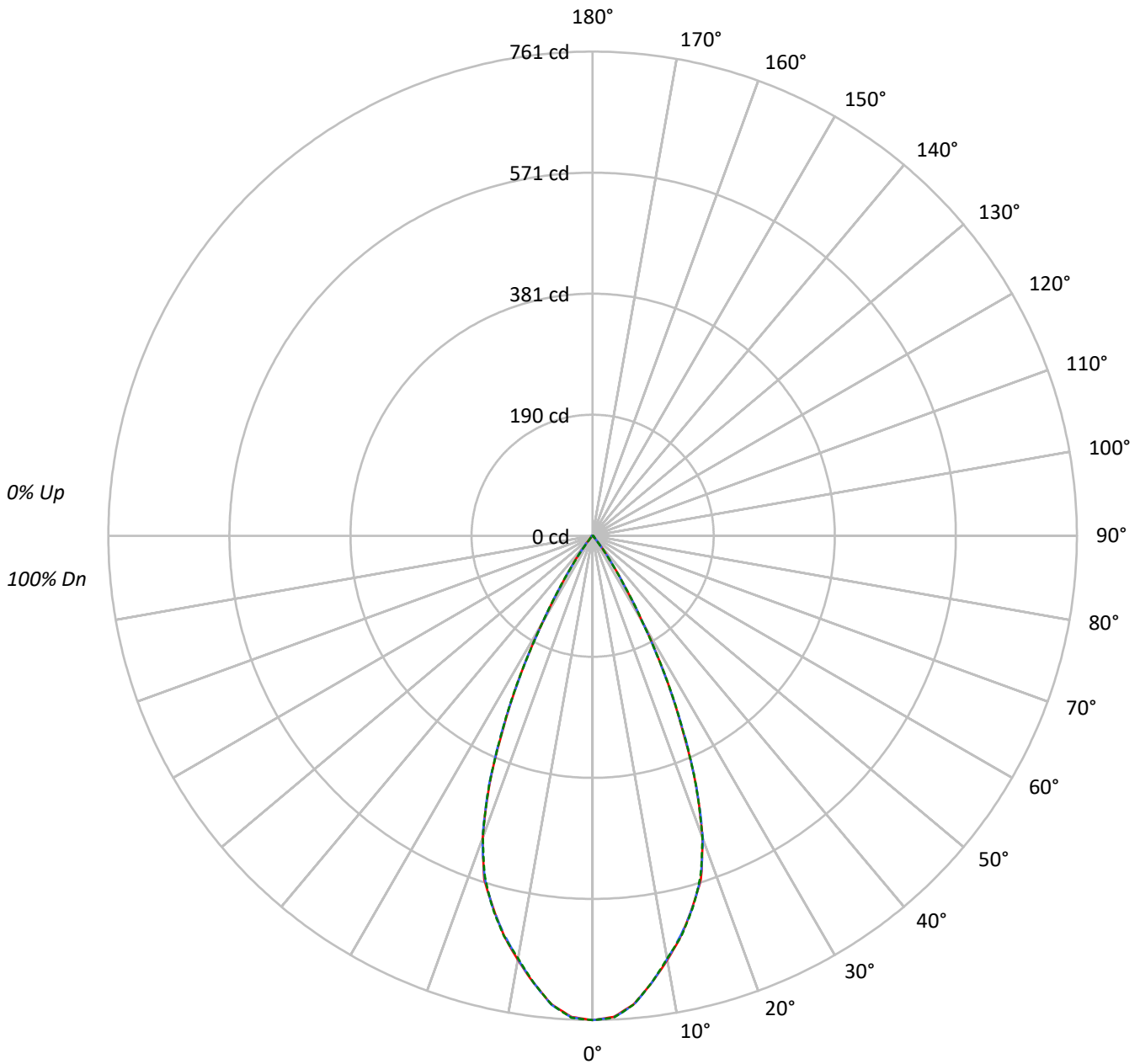
Lumens per Lamp: N/A  
Luminaire Lumens: 429.7 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.7  
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				100				
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95				
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90				90				
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85				85				
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81				81				
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77				77				
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73				73				
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70				70				
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67				67				
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64				64				
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61				61				

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

	0°	45°	90°
0°	60904	60904	60904
5°	59362	59442	59410
10°	54963	54882	54792
15°	50099	50157	50232
20°	42976	43103	42942
25°	29129	29491	29438
30°	14429	14521	14466
35°	4824	4844	4561
40°	1097	1076	929
45°	430	475	396
50°	348	373	311
55°	307	307	279
60°	240	272	224
65°	151	189	133
70°	0	23	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	15.9
10°-20°	168.0	39.1
20°-30°	149.6	34.8
30°-40°	37.3	8.7
40°-50°	3.6	0.8
50°-60°	1.9	0.5
60°-70°	0.8	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°	386.1	89.9
0°-40°	423.4	98.5
0°-60°	428.9	99.8
0°-90°	429.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	429.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	739	742	740	740	740	68
15°	605	608	606	604	606	168
25°	330	334	334	336	334	149
35°	49	51	50	49	47	37
45°	4	4	4	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	761.3	761.3	761.3	761.3	761.3
2.5°	756.9	760.3	757.9	758.0	758.2
5°	739.2	741.9	740.2	739.6	739.8
7.5°	709.2	711.6	709.0	710.0	708.8
10°	676.6	679.0	675.6	675.6	674.5
12.5°	643.4	646.0	641.9	641.5	644.1
15°	604.9	608.0	605.6	604.5	606.5
17.5°	566.0	565.5	564.1	563.4	562.7
20°	504.8	507.3	506.3	502.1	504.4
22.5°	424.4	424.5	425.9	426.6	424.8
25°	330.0	333.7	334.1	336.3	333.5
27.5°	244.5	245.2	241.4	241.7	244.4
30°	156.2	158.3	157.2	158.3	156.6
32.5°	90.1	92.0	91.3	92.1	92.2
35°	49.4	51.2	49.6	48.9	46.7
37.5°	24.5	24.5	25.0	23.1	21.9
40°	10.5	10.8	10.3	9.7	8.9
42.5°	5.3	5.3	5.6	4.8	4.6
45°	3.8	3.8	4.2	3.7	3.5
47.5°	3.2	3.2	3.5	3.1	3.0
50°	2.8	2.8	3.0	2.7	2.5
52.5°	2.5	2.5	2.7	2.4	2.2
55°	2.2	2.2	2.2	2.1	2.0
57.5°	1.8	2.0	2.0	1.8	1.7
60°	1.5	1.5	1.7	1.5	1.4
62.5°	1.3	1.3	1.3	1.3	1.1
65°	0.8	0.8	1.0	0.8	0.7
67.5°	0.1	0.3	0.7	0.0	0.0
70°	0.0	0.0	0.1	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)