

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: P402199

Luminaire Tested: **LD1MR012D010 ED1M12509027SB1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402199  
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: LD1MR012D010 ED1M12509027SB1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

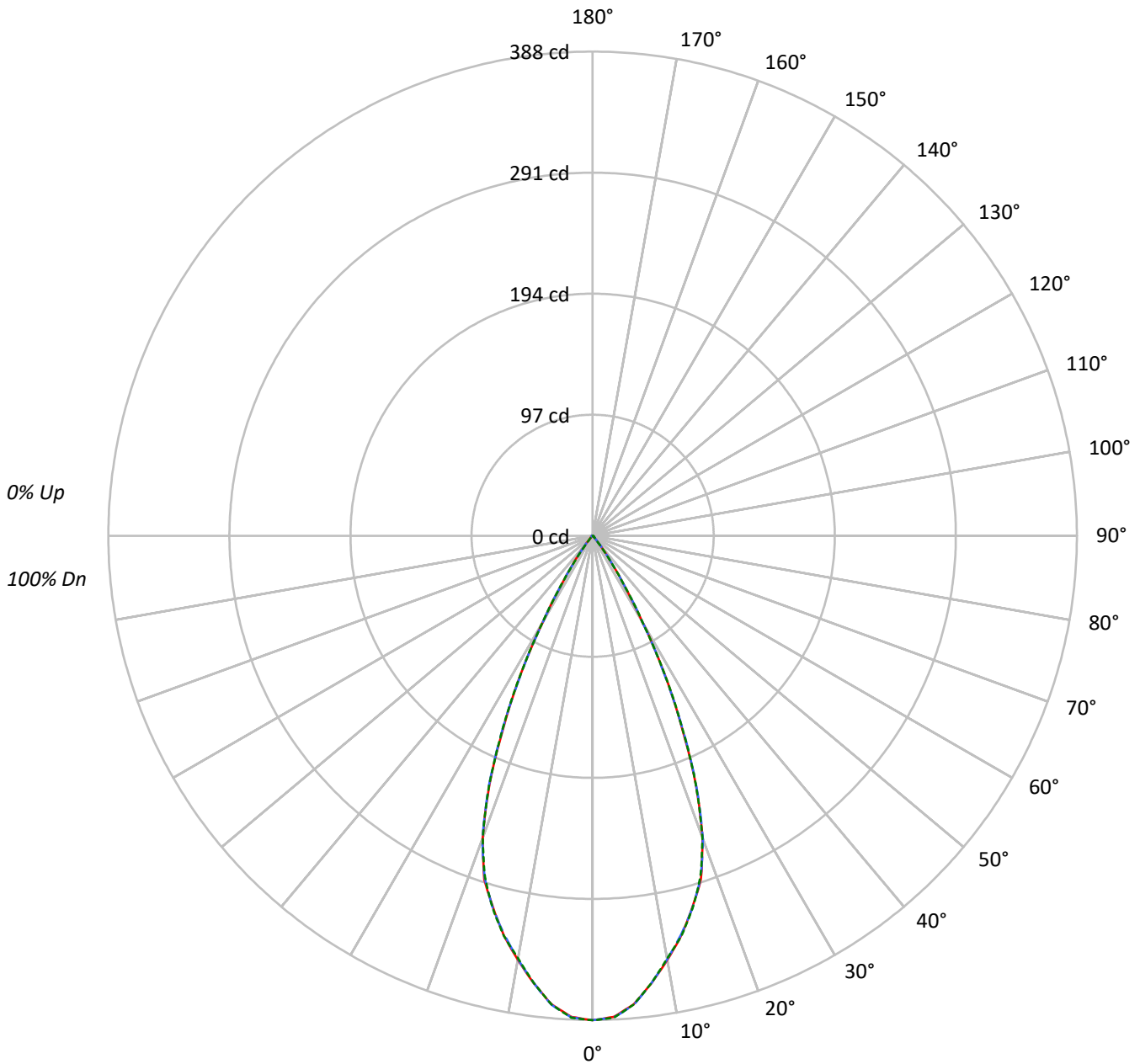
Lumens per Lamp: N/A  
Luminaire Lumens: 219.1 lumens  
Efficiency: N/A  
Efficacy: 60.9 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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	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	100	99	98	97	95		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	93	92	91	89	87	85	
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90	90	88	87	85	83	81	79	
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85	85	83	82	80	78	77	75	
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	79	78	76	74	73	71	
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	75	74	72	70	69	67	
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73	73	71	70	68	67	65	64	
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70	70	68	67	65	64	62	61	
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67	67	65	64	62	61	60	59	
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64	64	62	61	60	59	58	57	
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61	61	59	58	57	56	55	54	

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

	0°	45°	90°
0°	31056	31056	31056
5°	30267	30307	30291
10°	28026	27985	27936
15°	25542	25575	25609
20°	21914	21982	21896
25°	14856	15041	15015
30°	7362	7409	7381
35°	2461	2471	2324
40°	564	543	470
45°	215	249	204
50°	174	187	162
55°	153	153	139
60°	128	144	112
65°	76	95	76
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°	34.9	15.9
10°-20°	85.7	39.1
20°-30°	76.3	34.8
30°-40°	19.0	8.7
40°-50°	1.8	0.8
50°-60°	1.0	0.5
60°-70°	0.4	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°	196.9	89.9
0°-40°	215.9	98.5
0°-60°	218.7	99.8
0°-90°	219.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	219.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	388	388	388	388	388	
5°	377	378	377	377	377	35
15°	308	310	309	308	309	86
25°	168	170	170	172	170	76
35°	25	26	25	25	24	19
45°	2	2	2	2	2	2
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
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°	388.2	388.2	388.2	388.2	388.2
2.5°	385.9	387.7	386.4	386.5	386.6
5°	376.9	378.3	377.4	377.1	377.2
7.5°	361.6	362.9	361.5	362.0	361.4
10°	345.0	346.2	344.5	344.5	343.9
12.5°	328.1	329.4	327.3	327.1	328.4
15°	308.4	310.0	308.8	308.2	309.2
17.5°	288.6	288.4	287.6	287.3	286.9
20°	257.4	258.7	258.2	256.0	257.2
22.5°	216.4	216.5	217.2	217.5	216.6
25°	168.3	170.1	170.4	171.5	170.1
27.5°	124.7	125.0	123.1	123.2	124.6
30°	79.7	80.7	80.2	80.7	79.9
32.5°	46.0	46.9	46.5	47.0	47.0
35°	25.2	26.1	25.3	25.0	23.8
37.5°	12.5	12.5	12.8	11.8	11.2
40°	5.4	5.5	5.2	4.9	4.5
42.5°	2.7	2.7	2.9	2.4	2.4
45°	1.9	1.9	2.2	1.9	1.8
47.5°	1.6	1.6	1.8	1.6	1.5
50°	1.4	1.4	1.5	1.4	1.3
52.5°	1.3	1.3	1.4	1.2	1.1
55°	1.1	1.1	1.1	1.1	1.0
57.5°	0.9	1.0	1.0	0.9	0.9
60°	0.8	0.8	0.9	0.8	0.7
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.4	0.4	0.5	0.4	0.4
67.5°	0.1	0.1	0.4	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)