

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: P402269

Luminaire Tested: **LD1MR022D010 ED1M22509035MMS1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402269  
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 ED1M22509035MMS1MW  
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

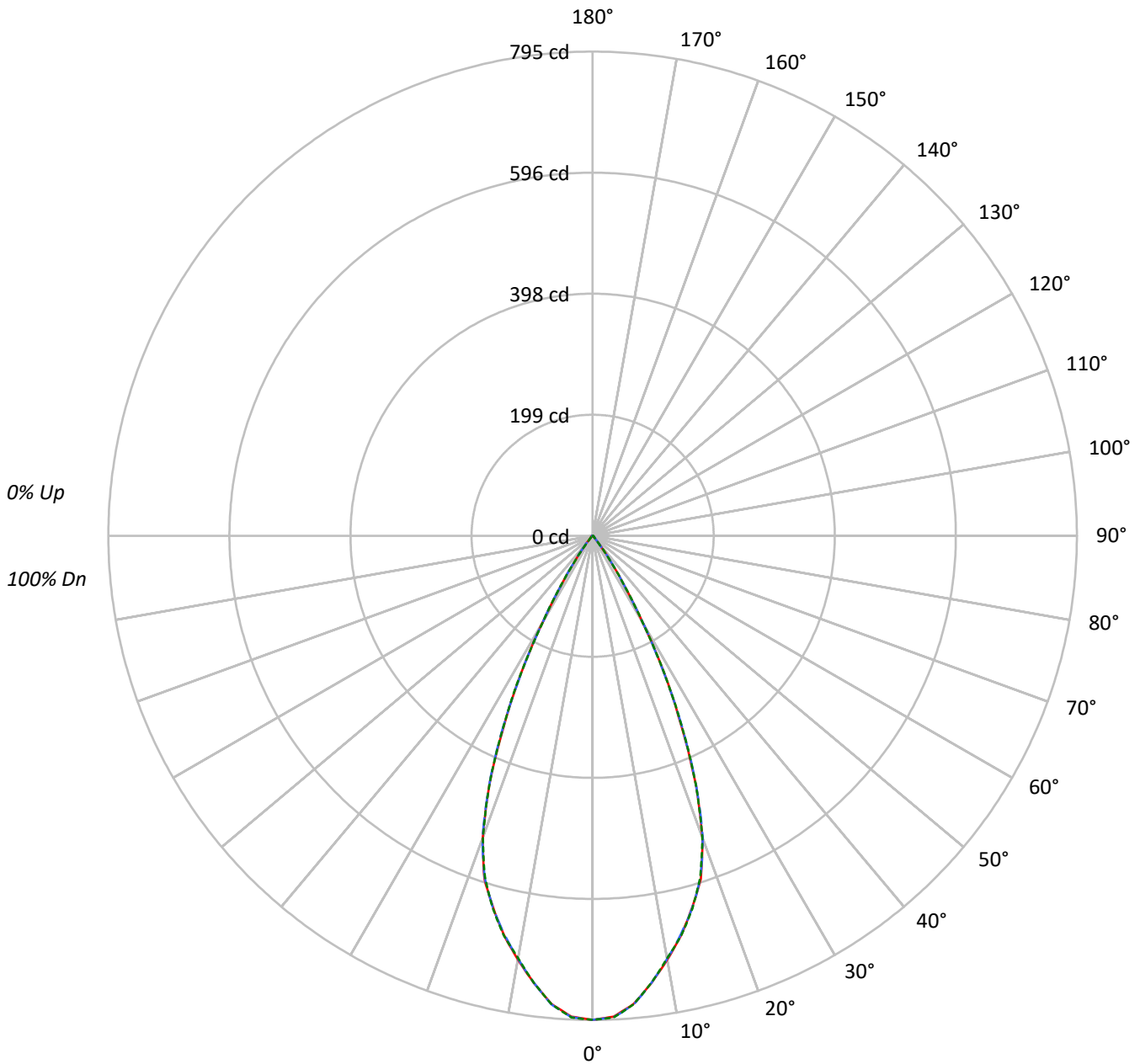
Lumens per Lamp: N/A  
Luminaire Lumens: 448.6 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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									
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			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°	63584	63584	63584
5°	61980	62060	62028
10°	57384	57302	57205
15°	52310	52368	52443
20°	44866	45010	44832
25°	30418	30789	30736
30°	15067	15159	15103
35°	5030	5059	4756
40°	1149	1117	961
45°	453	498	419
50°	361	386	324
55°	321	321	293
60°	256	288	240
65°	170	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°	71.5	15.9
10°-20°	175.4	39.1
20°-30°	156.2	34.8
30°-40°	39.0	8.7
40°-50°	3.7	0.8
50°-60°	2.0	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°	403.1	89.9
0°-40°	442.1	98.5
0°-60°	447.8	99.8
0°-90°	448.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	448.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	772	775	773	772	772	71
15°	632	635	632	631	633	175
25°	345	348	349	351	348	156
35°	52	53	52	51	49	39
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	794.8	794.8	794.8	794.8	794.8
2.5°	790.3	793.8	791.3	791.5	791.6
5°	771.8	774.6	772.8	772.2	772.4
7.5°	740.5	743.0	740.2	741.2	740.1
10°	706.4	708.9	705.4	705.4	704.2
12.5°	671.8	674.4	670.2	669.7	672.5
15°	631.6	634.8	632.3	631.1	633.2
17.5°	590.9	590.5	589.0	588.3	587.5
20°	527.0	529.7	528.7	524.3	526.6
22.5°	443.1	443.2	444.7	445.4	443.5
25°	344.6	348.4	348.8	351.2	348.2
27.5°	255.3	256.0	252.1	252.4	255.2
30°	163.1	165.3	164.1	165.3	163.5
32.5°	94.1	96.0	95.3	96.2	96.3
35°	51.5	53.4	51.8	51.1	48.7
37.5°	25.5	25.5	26.1	24.1	22.9
40°	11.0	11.3	10.7	10.1	9.2
42.5°	5.6	5.6	5.9	5.0	4.8
45°	4.0	4.0	4.4	3.8	3.7
47.5°	3.4	3.4	3.7	3.2	3.1
50°	2.9	2.9	3.1	2.8	2.6
52.5°	2.6	2.6	2.8	2.5	2.3
55°	2.3	2.3	2.3	2.2	2.1
57.5°	1.9	2.1	2.1	1.9	1.8
60°	1.6	1.6	1.8	1.6	1.5
62.5°	1.3	1.3	1.3	1.3	1.2
65°	0.9	0.9	1.0	0.9	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)