

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: P402241

Luminaire Tested: **LD1MR152D010 ED1M152509040MMS1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402241  
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: LD1MR152D010 ED1M152509040MMS1MW  
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

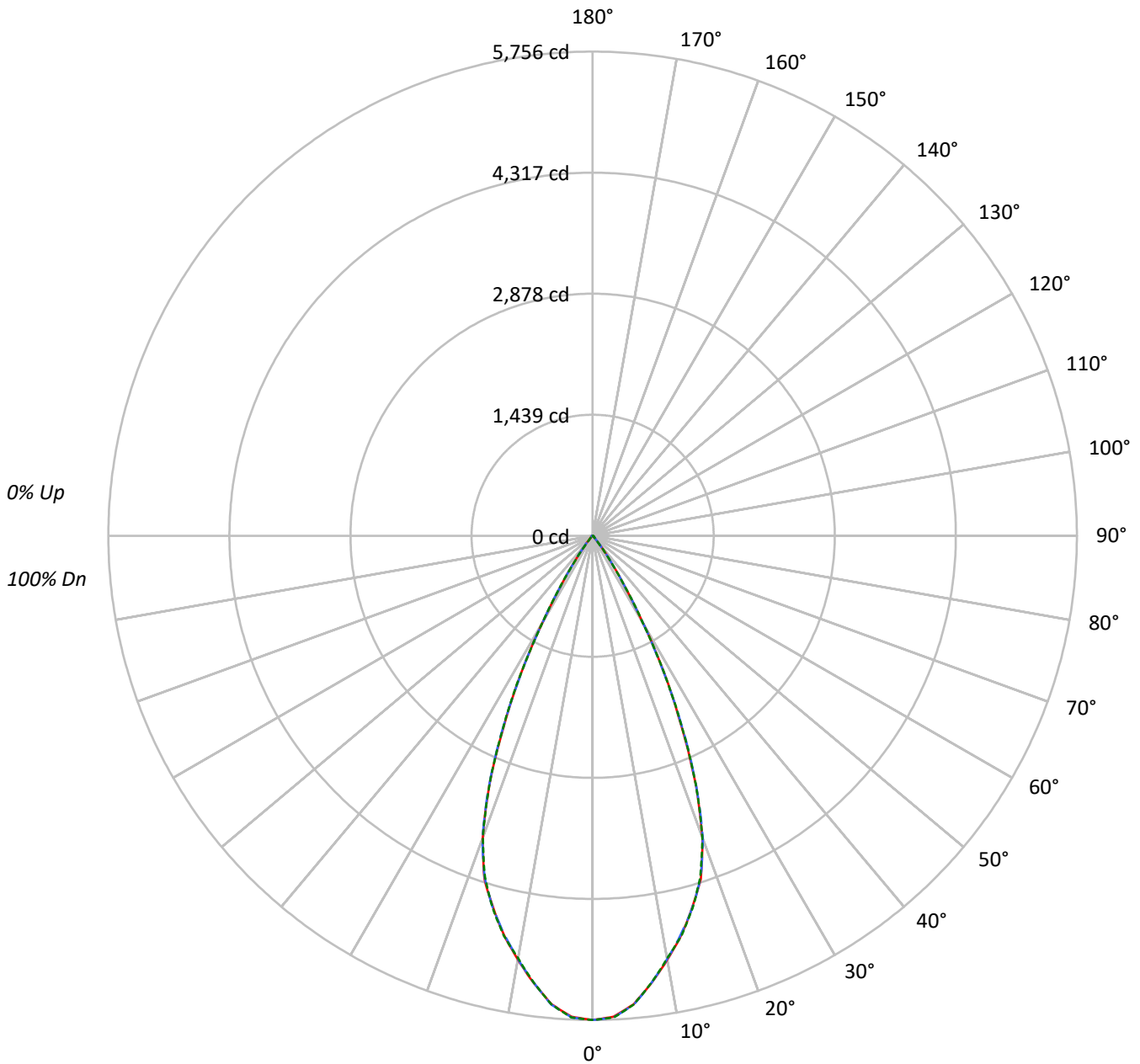
Lumens per Lamp: N/A  
Luminaire Lumens: 3249.2 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 34.2  
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°	460512	460512	460512
5°	448868	449462	449205
10°	415618	415017	414326
15°	378836	379275	379805
20°	324957	325953	324685
25°	220269	222997	222617
30°	109124	109807	109419
35°	36447	36652	34475
40°	8323	8104	6997
45°	3247	3609	3009
50°	2651	2775	2377
55°	2371	2371	2078
60°	1872	2048	1696
65°	1211	1401	1003
70°	0	257	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.2	15.9
10°-20°	1270.3	39.1
20°-30°	1130.9	34.8
30°-40°	282.3	8.7
40°-50°	26.9	0.8
50°-60°	14.7	0.5
60°-70°	5.9	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°	2919.4	89.8
0°-40°	3201.7	98.5
0°-60°	3243.3	99.8
0°-90°	3249.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5756	5756	5756	5756	5756	
5°	5590	5610	5597	5593	5594	518
15°	4574	4598	4579	4571	4586	1271
25°	2495	2523	2526	2543	2522	1127
35°	373	387	375	370	353	281
45°	29	29	32	28	27	27
55°	17	17	17	16	15	15
65°	6	6	7	6	5	6
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°	5756.4	5756.4	5756.4	5756.4	5756.4
2.5°	5723.4	5748.9	5730.9	5731.9	5733.0
5°	5589.5	5609.7	5596.9	5592.6	5593.7
7.5°	5363.0	5381.1	5360.9	5368.3	5359.8
10°	5116.3	5134.4	5108.9	5108.9	5100.4
12.5°	4865.4	4884.5	4853.7	4850.5	4870.7
15°	4574.1	4597.5	4579.4	4570.9	4585.8
17.5°	4279.5	4276.4	4265.7	4260.4	4255.1
20°	3817.0	3836.2	3828.7	3796.8	3813.8
22.5°	3208.9	3209.9	3220.6	3225.9	3212.1
25°	2495.4	2523.1	2526.3	2543.3	2522.0
27.5°	1849.0	1854.3	1825.6	1827.7	1847.9
30°	1181.3	1197.2	1188.7	1197.2	1184.5
32.5°	681.5	695.4	690.0	696.4	697.5
35°	373.2	387.0	375.3	370.0	353.0
37.5°	185.0	185.0	189.3	174.4	165.9
40°	79.7	81.9	77.6	73.4	67.0
42.5°	40.4	40.4	42.5	36.2	35.1
45°	28.7	28.7	31.9	27.6	26.6
47.5°	24.5	24.5	26.6	23.4	22.3
50°	21.3	21.3	22.3	20.2	19.1
52.5°	19.1	19.1	20.2	18.1	17.0
55°	17.0	17.0	17.0	15.9	14.9
57.5°	13.8	14.9	14.9	13.8	12.8
60°	11.7	11.7	12.8	11.7	10.6
62.5°	9.6	9.6	9.6	9.6	8.5
65°	6.4	6.4	7.4	6.4	5.3
67.5°	1.1	2.1	5.3	0.0	0.0
70°	0.0	0.0	1.1	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)