

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: P402238

Luminaire Tested: **LD1MR152D010 ED1M152509035MW1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402238  
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 ED1M152509035MW1MW  
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

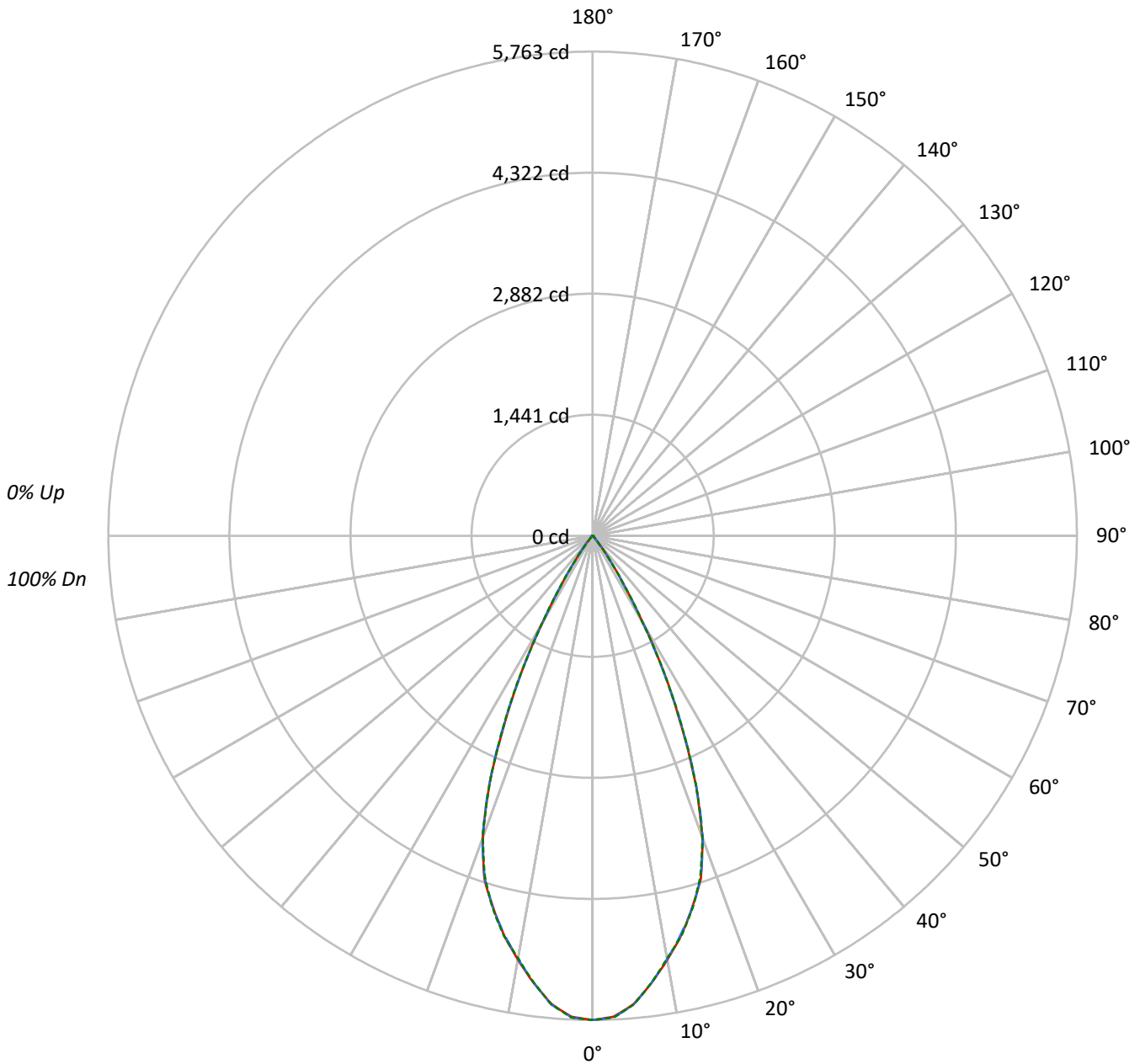
Lumens per Lamp: N/A  
Luminaire Lumens: 3253.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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°	461056	461056	461056
5°	449398	449992	449735
10°	416113	415504	414814
15°	379283	379722	380252
20°	325349	326345	325076
25°	220534	223262	222882
30°	109253	109937	109549
35°	36486	36701	34514
40°	8334	8114	7007
45°	3247	3609	3009
50°	2651	2788	2390
55°	2371	2371	2078
60°	1872	2048	1696
65°	1211	1420	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°	518.8	15.9
10°-20°	1271.8	39.1
20°-30°	1132.2	34.8
30°-40°	282.6	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°	2922.8	89.8
0°-40°	3205.4	98.5
0°-60°	3247.1	99.8
0°-90°	3253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3253.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5763	5763	5763	5763	5763	
5°	5596	5616	5604	5599	5600	518
15°	4580	4603	4585	4576	4591	1272
25°	2498	2526	2529	2546	2525	1128
35°	374	388	376	370	353	281
45°	29	29	32	28	27	27
55°	17	17	17	16	15	15
65°	6	6	8	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°	5763.2	5763.2	5763.2	5763.2	5763.2
2.5°	5730.2	5755.8	5737.7	5738.7	5739.8
5°	5596.1	5616.3	5603.5	5599.3	5600.3
7.5°	5369.3	5387.4	5367.2	5374.7	5366.1
10°	5122.4	5140.5	5114.9	5114.9	5106.4
12.5°	4871.2	4890.3	4859.4	4856.3	4876.5
15°	4579.5	4602.9	4584.8	4576.3	4591.2
17.5°	4284.6	4281.4	4270.8	4265.5	4260.1
20°	3821.6	3840.7	3833.3	3801.3	3818.4
22.5°	3212.7	3213.7	3224.4	3229.7	3215.9
25°	2498.4	2526.1	2529.3	2546.3	2525.0
27.5°	1851.2	1856.5	1827.7	1829.9	1850.1
30°	1182.7	1198.6	1190.1	1198.6	1185.9
32.5°	682.3	696.2	690.9	697.2	698.3
35°	373.6	387.5	375.8	370.4	353.4
37.5°	185.2	185.2	189.5	174.6	166.1
40°	79.8	82.0	77.7	73.5	67.1
42.5°	40.5	40.5	42.6	36.2	35.1
45°	28.7	28.7	31.9	27.7	26.6
47.5°	24.5	24.5	26.6	23.4	22.4
50°	21.3	21.3	22.4	20.2	19.2
52.5°	19.2	19.2	20.2	18.1	17.0
55°	17.0	17.0	17.0	16.0	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	7.5	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)