

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: P402231

Luminaire Tested: **LD1MR152D010 ED1M152509027SB1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402231  
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 ED1M152509027SB1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

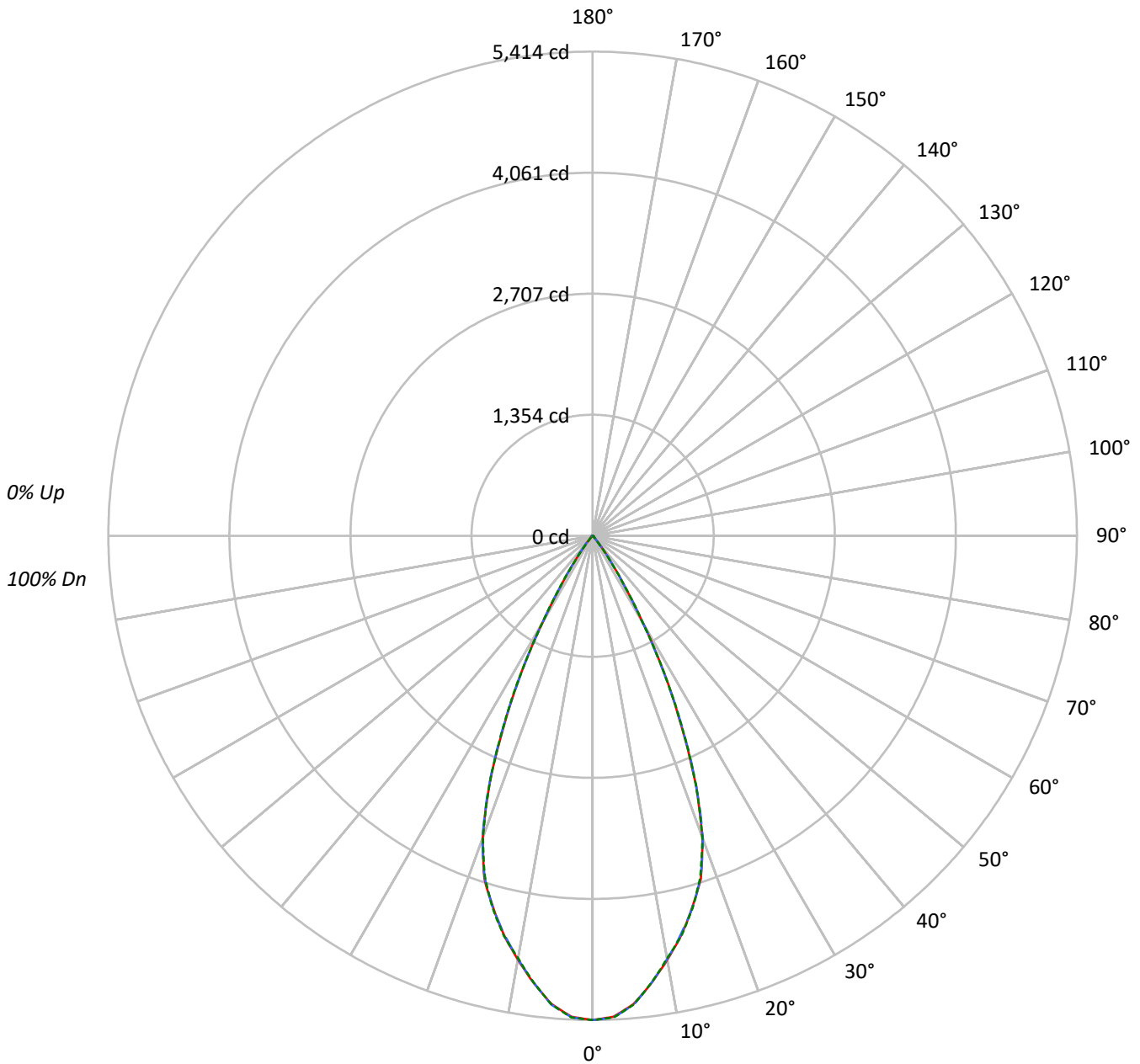
Lumens per Lamp: N/A  
Luminaire Lumens: 3056.0 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P402231

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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			
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°	433136	433136	433136
5°	422174	422736	422495
10°	390906	390338	389688
15°	356309	356723	357220
20°	305640	306577	305385
25°	207179	209739	209386
30°	102630	103276	102907
35°	34279	34475	32424
40°	7832	7624	6579
45°	3055	3394	2828
50°	2489	2614	2240
55°	2232	2232	1953
60°	1760	1920	1600
65°	1136	1325	946
70°	0	234	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.4	15.9
10°-20°	1194.8	39.1
20°-30°	1063.7	34.8
30°-40°	265.5	8.7
40°-50°	25.3	0.8
50°-60°	13.8	0.5
60°-70°	5.5	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°	2745.8	89.8
0°-40°	3011.3	98.5
0°-60°	3050.4	99.8
0°-90°	3056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3056.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5414	5414	5414	5414	5414	
5°	5257	5276	5264	5260	5261	487
15°	4302	4324	4307	4299	4313	1195
25°	2347	2373	2376	2392	2372	1060
35°	351	364	353	348	332	264
45°	27	27	30	26	25	26
55°	16	16	16	15	14	14
65°	6	6	7	6	5	5
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°	5414.2	5414.2	5414.2	5414.2	5414.2
2.5°	5383.1	5407.2	5390.1	5391.1	5392.1
5°	5257.1	5276.1	5264.1	5260.1	5261.1
7.5°	5044.1	5061.1	5042.1	5049.1	5041.1
10°	4812.1	4829.1	4805.1	4805.1	4797.1
12.5°	4576.1	4594.1	4565.1	4562.1	4581.1
15°	4302.1	4324.1	4307.1	4299.1	4313.1
17.5°	4025.1	4022.1	4012.1	4007.1	4002.1
20°	3590.1	3608.1	3601.1	3571.1	3587.1
22.5°	3018.1	3019.1	3029.1	3034.1	3021.1
25°	2347.1	2373.1	2376.1	2392.1	2372.1
27.5°	1739.0	1744.0	1717.0	1719.0	1738.0
30°	1111.0	1126.0	1118.0	1126.0	1114.0
32.5°	641.0	654.0	649.0	655.0	656.0
35°	351.0	364.0	353.0	348.0	332.0
37.5°	174.0	174.0	178.0	164.0	156.0
40°	75.0	77.0	73.0	69.0	63.0
42.5°	38.0	38.0	40.0	34.0	33.0
45°	27.0	27.0	30.0	26.0	25.0
47.5°	23.0	23.0	25.0	22.0	21.0
50°	20.0	20.0	21.0	19.0	18.0
52.5°	18.0	18.0	19.0	17.0	16.0
55°	16.0	16.0	16.0	15.0	14.0
57.5°	13.0	14.0	14.0	13.0	12.0
60°	11.0	11.0	12.0	11.0	10.0
62.5°	9.0	9.0	9.0	9.0	8.0
65°	6.0	6.0	7.0	6.0	5.0
67.5°	1.0	2.0	5.0	0.0	0.0
70°	0.0	0.0	1.0	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)