

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: P402376

Luminaire Tested: **LA1MRT152D010TR509027SC1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402376  
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: LA1MRT152D010TR509027SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

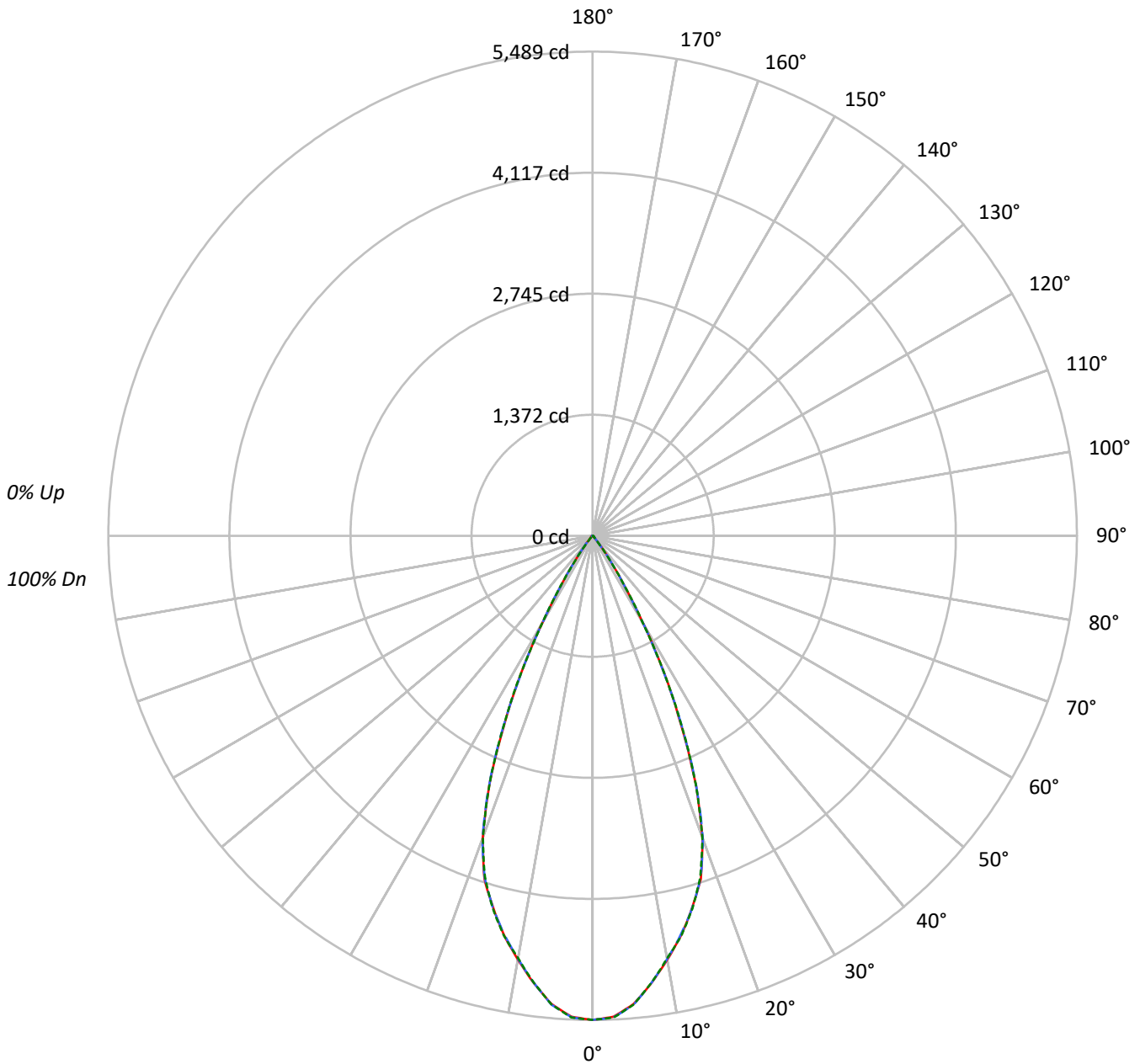
Lumens per Lamp: N/A  
Luminaire Lumens: 3098.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	439088	439088	439088
5°	427980	428550	428309
10°	396284	395707	395049
15°	361203	361626	362131
20°	309837	310791	309582
25°	210021	212616	212263
30°	104043	104699	104320
35°	34748	34953	32873
40°	7937	7728	6673
45°	3100	3439	2862
50°	2526	2651	2265
55°	2260	2260	1981
60°	1792	1952	1616
65°	1155	1344	965
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°	494.1	15.9
10°-20°	1211.2	39.1
20°-30°	1078.3	34.8
30°-40°	269.2	8.7
40°-50°	25.7	0.8
50°-60°	14.0	0.5
60°-70°	5.6	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°	2783.5	89.8
0°-40°	3052.7	98.5
0°-60°	3092.4	99.8
0°-90°	3098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5489	5489	5489	5489	5489	
5°	5329	5349	5336	5332	5334	494
15°	4361	4384	4366	4358	4372	1212
25°	2379	2406	2409	2425	2405	1075
35°	356	369	358	353	337	268
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°	5488.6	5488.6	5488.6	5488.6	5488.6
2.5°	5457.1	5481.5	5464.2	5465.2	5466.3
5°	5329.4	5348.7	5336.5	5332.4	5333.5
7.5°	5113.5	5130.7	5111.4	5118.5	5110.4
10°	4878.3	4895.5	4871.2	4871.2	4863.1
12.5°	4639.0	4657.3	4627.9	4624.8	4644.1
15°	4361.2	4383.5	4366.3	4358.2	4372.4
17.5°	4080.4	4077.4	4067.3	4062.2	4057.1
20°	3639.4	3657.7	3650.6	3620.2	3636.4
22.5°	3059.6	3060.6	3070.7	3075.8	3062.6
25°	2379.3	2405.7	2408.7	2424.9	2404.7
27.5°	1762.9	1768.0	1740.6	1742.7	1761.9
30°	1126.3	1141.5	1133.4	1141.5	1129.3
32.5°	649.8	663.0	657.9	664.0	665.0
35°	355.8	369.0	357.9	352.8	336.6
37.5°	176.4	176.4	180.5	166.3	158.1
40°	76.0	78.1	74.0	70.0	63.9
42.5°	38.5	38.5	40.6	34.5	33.5
45°	27.4	27.4	30.4	26.4	25.3
47.5°	23.3	23.3	25.3	22.3	21.3
50°	20.3	20.3	21.3	19.3	18.2
52.5°	18.2	18.2	19.3	17.2	16.2
55°	16.2	16.2	16.2	15.2	14.2
57.5°	13.2	14.2	14.2	13.2	12.2
60°	11.2	11.2	12.2	11.2	10.1
62.5°	9.1	9.1	9.1	9.1	8.1
65°	6.1	6.1	7.1	6.1	5.1
67.5°	1.0	2.0	5.1	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)