

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: P402377

Luminaire Tested: **LA1MRT152D010TR509030MMS1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402377  
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: LA1MRT152D010TR509030MMS1MW  
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

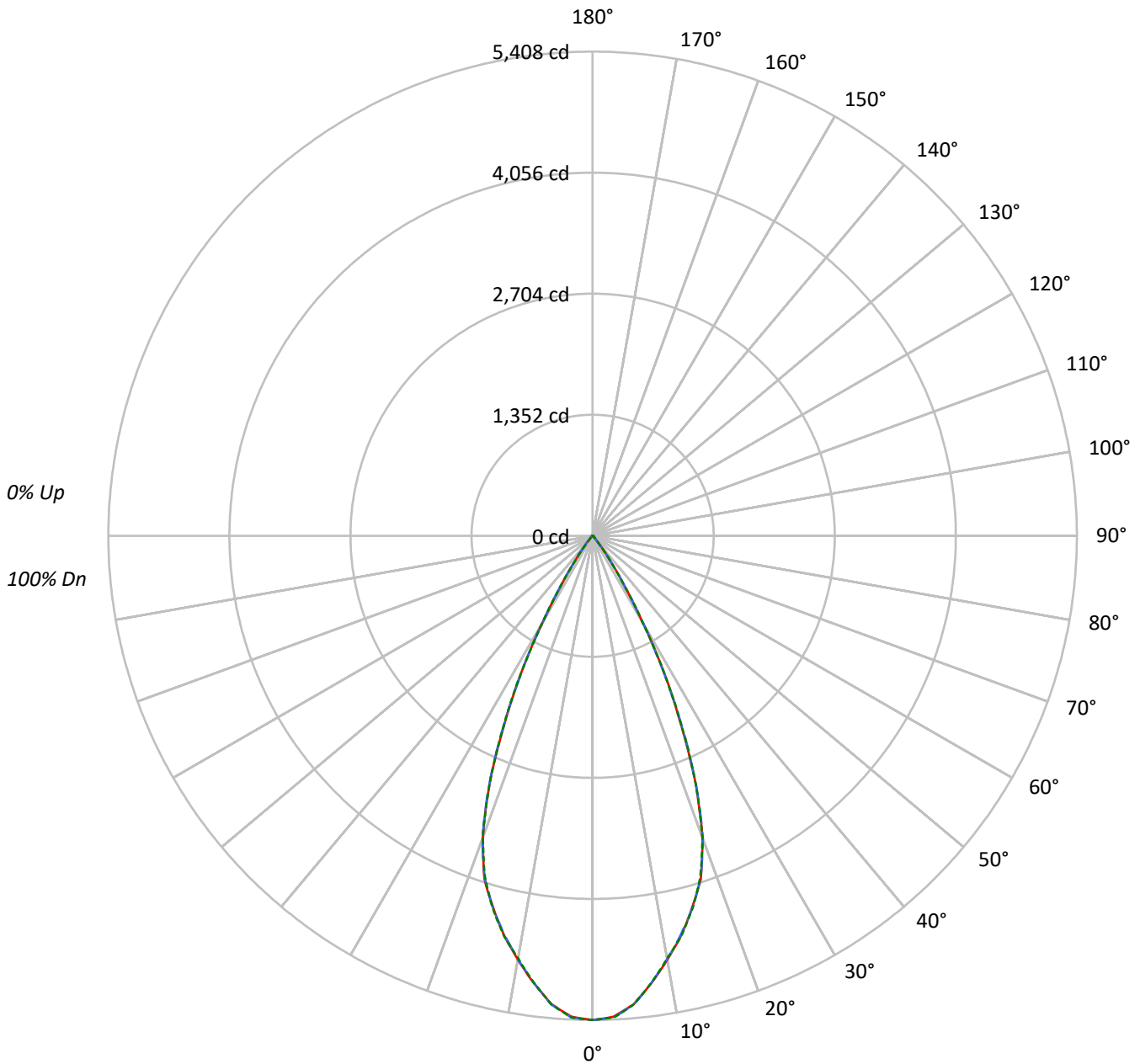
Lumens per Lamp: N/A  
Luminaire Lumens: 3052.9 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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°	432680	432680	432680
5°	421740	422303	422062
10°	390500	389940	389290
15°	355944	356358	356855
20°	305325	306262	305070
25°	206958	209518	209165
30°	102528	103175	102805
35°	34240	34436	32394
40°	7822	7613	6569
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°	486.9	15.9
10°-20°	1193.5	39.1
20°-30°	1062.6	34.8
30°-40°	265.2	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°	2743.0	89.8
0°-40°	3008.2	98.5
0°-60°	3047.3	99.8
0°-90°	3052.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3052.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5408	5408	5408	5408	5408	
5°	5252	5271	5259	5255	5256	486
15°	4298	4320	4303	4295	4309	1194
25°	2345	2371	2374	2390	2370	1059
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°	5408.5	5408.5	5408.5	5408.5	5408.5
2.5°	5377.6	5401.6	5384.6	5385.6	5386.6
5°	5251.7	5270.7	5258.7	5254.7	5255.7
7.5°	5038.9	5055.9	5036.9	5043.9	5035.9
10°	4807.1	4824.1	4800.2	4800.2	4792.2
12.5°	4571.4	4589.4	4560.4	4557.4	4576.4
15°	4297.7	4319.6	4302.7	4294.7	4308.7
17.5°	4020.9	4017.9	4008.0	4003.0	3998.0
20°	3586.4	3604.4	3597.4	3567.4	3583.4
22.5°	3015.0	3016.0	3025.9	3030.9	3018.0
25°	2344.6	2370.6	2373.6	2389.6	2369.6
27.5°	1737.2	1742.2	1715.3	1717.3	1736.2
30°	1109.9	1124.9	1116.9	1124.9	1112.9
32.5°	640.4	653.3	648.3	654.3	655.3
35°	350.6	363.6	352.6	347.6	331.7
37.5°	173.8	173.8	177.8	163.8	155.8
40°	74.9	76.9	72.9	68.9	62.9
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)