

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: P402496

Luminaire Tested: **LD1MRT152D010TR509035SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402496  
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: LD1MRT152D010TR509035SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

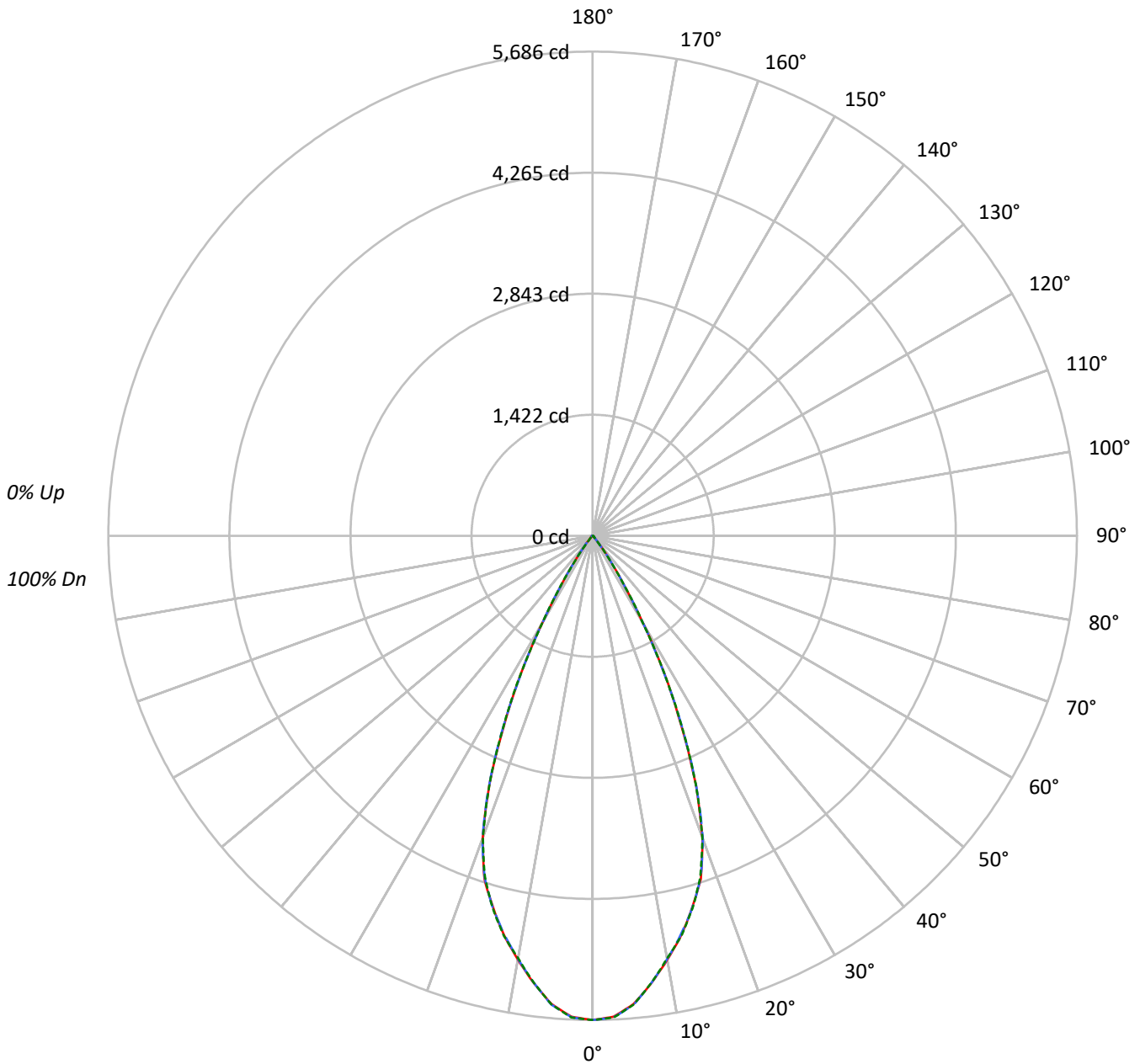
Lumens per Lamp: N/A  
Luminaire Lumens: 3209.6 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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°	454888	454888	454888
5°	443383	443977	443720
10°	410549	409948	409265
15°	374206	374645	375167
20°	320990	321977	320726
25°	217586	220269	219899
30°	107784	108468	108080
35°	35998	36203	34055
40°	8229	8010	6913
45°	3213	3564	2976
50°	2614	2751	2352
55°	2343	2343	2050
60°	1856	2016	1680
65°	1193	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°	511.8	15.9
10°-20°	1254.8	39.1
20°-30°	1117.1	34.8
30°-40°	278.8	8.7
40°-50°	26.6	0.8
50°-60°	14.6	0.5
60°-70°	5.8	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°	2883.7	89.8
0°-40°	3162.6	98.5
0°-60°	3203.7	99.8
0°-90°	3209.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3209.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5686	5686	5686	5686	5686	
5°	5521	5541	5529	5524	5525	511
15°	4518	4541	4524	4515	4530	1255
25°	2465	2492	2495	2512	2491	1113
35°	369	382	371	366	349	277
45°	28	28	32	27	26	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5686.1	5686.1	5686.1	5686.1	5686.1
2.5°	5653.6	5678.8	5660.9	5662.0	5663.0
5°	5521.2	5541.2	5528.6	5524.4	5525.4
7.5°	5297.5	5315.4	5295.4	5302.8	5294.4
10°	5053.9	5071.7	5046.5	5046.5	5038.1
12.5°	4806.0	4824.9	4794.4	4791.3	4811.3
15°	4518.2	4541.3	4523.5	4515.1	4529.8
17.5°	4227.3	4224.2	4213.7	4208.4	4203.1
20°	3770.4	3789.3	3782.0	3750.5	3767.3
22.5°	3169.7	3170.7	3181.2	3186.5	3172.8
25°	2465.0	2492.3	2495.4	2512.2	2491.2
27.5°	1826.4	1831.7	1803.3	1805.4	1825.4
30°	1166.8	1182.6	1174.2	1182.6	1170.0
32.5°	673.2	686.9	681.6	687.9	689.0
35°	368.6	382.3	370.7	365.5	348.7
37.5°	182.7	182.7	186.9	172.2	163.8
40°	78.8	80.9	76.7	72.5	66.2
42.5°	39.9	39.9	42.0	35.7	34.7
45°	28.4	28.4	31.5	27.3	26.3
47.5°	24.2	24.2	26.3	23.1	22.1
50°	21.0	21.0	22.1	20.0	18.9
52.5°	18.9	18.9	20.0	17.9	16.8
55°	16.8	16.8	16.8	15.8	14.7
57.5°	13.7	14.7	14.7	13.7	12.6
60°	11.6	11.6	12.6	11.6	10.5
62.5°	9.5	9.5	9.5	9.5	8.4
65°	6.3	6.3	7.4	6.3	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)