

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: P402498

Luminaire Tested: **LD1MRT152D010TR509040MW1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402498  
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: LD1MRT152D010TR509040MW1MW  
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

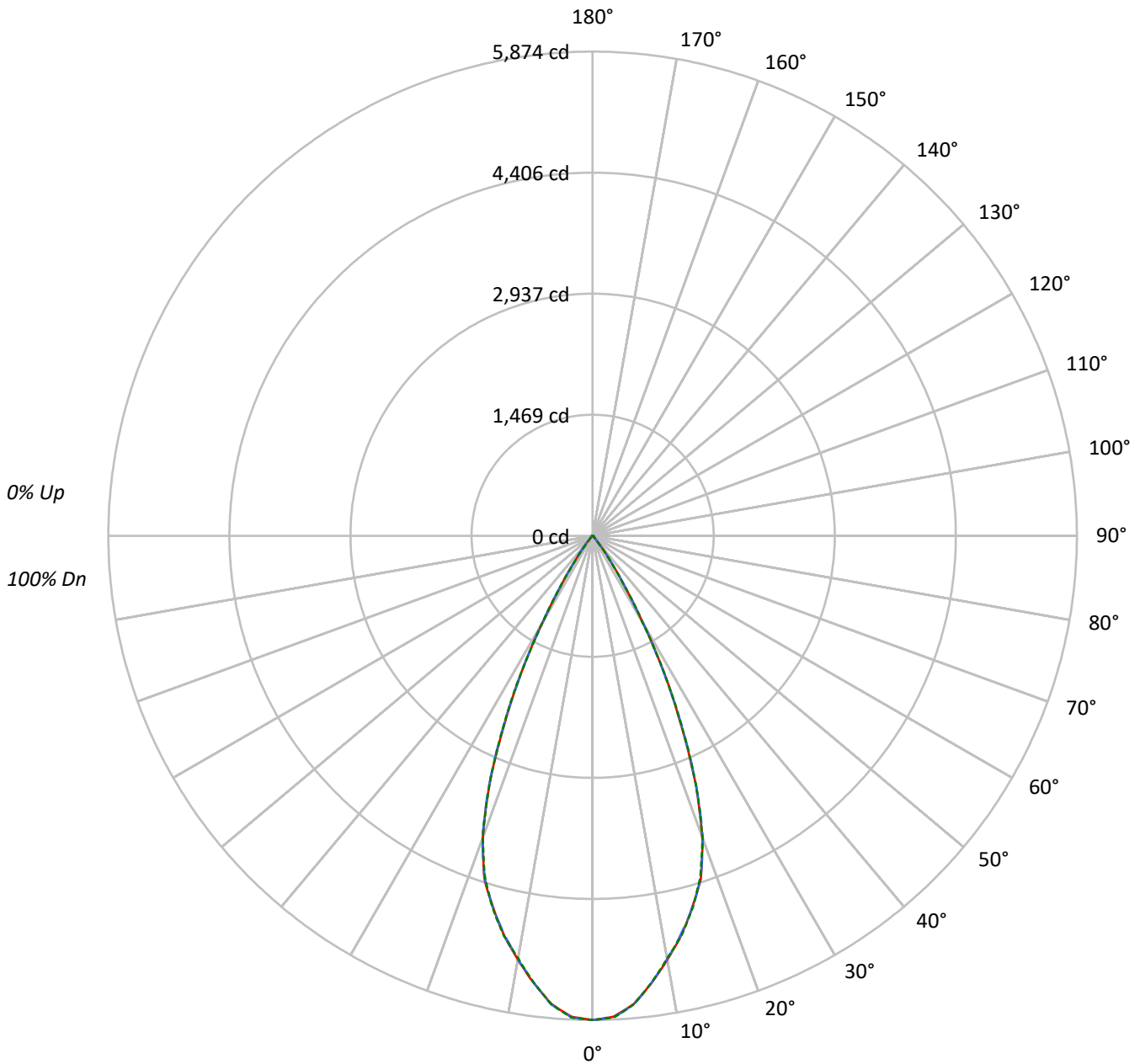
Lumens per Lamp: N/A  
Luminaire Lumens: 3315.7 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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°	469936	469936	469936
5°	458055	458665	458400
10°	424131	423514	422807
15°	386588	387036	387582
20°	331614	332628	331334
25°	224780	227560	227172
30°	111350	112052	111655
35°	37190	37404	35178
40°	8501	8271	7143
45°	3315	3688	3066
50°	2701	2838	2427
55°	2427	2427	2120
60°	1904	2080	1744
65°	1230	1439	1022
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°	528.8	15.9
10°-20°	1296.3	39.1
20°-30°	1154.0	34.8
30°-40°	288.1	8.7
40°-50°	27.5	0.8
50°-60°	15.0	0.5
60°-70°	6.0	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°	2979.1	89.8
0°-40°	3267.2	98.5
0°-60°	3309.7	99.8
0°-90°	3315.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3315.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5874	5874	5874	5874	5874	
5°	5704	5724	5712	5707	5708	528
15°	4668	4692	4673	4664	4680	1297
25°	2546	2575	2578	2595	2574	1150
35°	381	395	383	378	360	286
45°	29	29	33	28	27	28
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°	5874.2	5874.2	5874.2	5874.2	5874.2
2.5°	5840.6	5866.7	5848.2	5849.3	5850.4
5°	5703.9	5724.5	5711.5	5707.2	5708.2
7.5°	5472.8	5491.2	5470.6	5478.2	5469.5
10°	5221.1	5239.5	5213.5	5213.5	5204.8
12.5°	4965.0	4984.5	4953.1	4949.8	4970.4
15°	4667.7	4691.6	4673.1	4664.5	4679.7
17.5°	4367.2	4363.9	4353.1	4347.6	4342.2
20°	3895.2	3914.7	3907.1	3874.6	3891.9
22.5°	3274.6	3275.6	3286.5	3291.9	3277.8
25°	2546.5	2574.7	2578.0	2595.3	2573.6
27.5°	1886.8	1892.3	1863.0	1865.1	1885.7
30°	1205.4	1221.7	1213.0	1221.7	1208.7
32.5°	695.5	709.6	704.2	710.7	711.8
35°	380.8	394.9	383.0	377.6	360.2
37.5°	188.8	188.8	193.1	177.9	169.3
40°	81.4	83.5	79.2	74.9	68.4
42.5°	41.2	41.2	43.4	36.9	35.8
45°	29.3	29.3	32.6	28.2	27.1
47.5°	25.0	25.0	27.1	23.9	22.8
50°	21.7	21.7	22.8	20.6	19.5
52.5°	19.5	19.5	20.6	18.4	17.4
55°	17.4	17.4	17.4	16.3	15.2
57.5°	14.1	15.2	15.2	14.1	13.0
60°	11.9	11.9	13.0	11.9	10.9
62.5°	9.8	9.8	9.8	9.8	8.7
65°	6.5	6.5	7.6	6.5	5.4
67.5°	1.1	2.2	5.4	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)