

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: P402527

Luminaire Tested: **LD1MRT52D010TR509035SB1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402527  
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: LD1MRT52D010TR509035SB1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

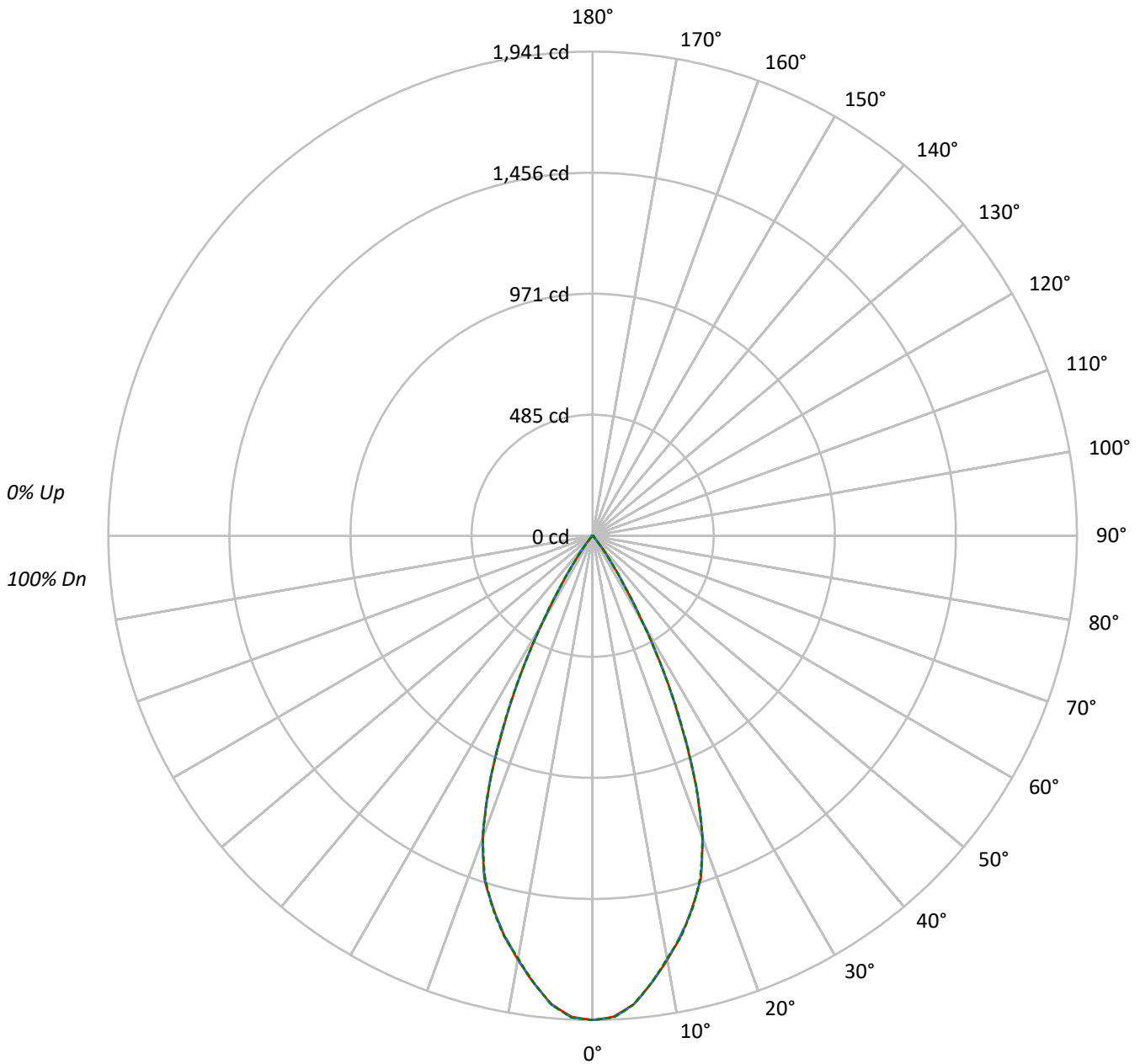
Lumens per Lamp: N/A  
Luminaire Lumens: 1095.7 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.1  
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°	155304	155304	155304
5°	151376	151577	151488
10°	140161	139958	139723
15°	127753	127902	128084
20°	109585	109925	109500
25°	74279	75197	75074
30°	36803	37034	36895
35°	12296	12364	11622
40°	2809	2736	2360
45°	1097	1222	1018
50°	896	933	809
55°	795	795	697
60°	624	688	576
65°	416	473	341
70°	0	94	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	15.9
10°-20°	428.4	39.1
20°-30°	381.4	34.8
30°-40°	95.2	8.7
40°-50°	9.1	0.8
50°-60°	5.0	0.5
60°-70°	2.0	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°	984.5	89.8
0°-40°	1079.7	98.5
0°-60°	1093.7	99.8
0°-90°	1095.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1095.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1885	1892	1888	1886	1886	175
15°	1542	1550	1544	1542	1546	429
25°	842	851	852	858	850	380
35°	126	130	127	125	119	95
45°	10	10	11	9	9	9
55°	6	6	6	5	5	5
65°	2	2	2	2	2	2
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°	1941.3	1941.3	1941.3	1941.3	1941.3
2.5°	1930.1	1938.7	1932.6	1933.0	1933.4
5°	1885.0	1891.8	1887.5	1886.0	1886.4
7.5°	1808.6	1814.7	1807.9	1810.4	1807.5
10°	1725.4	1731.5	1722.9	1722.9	1720.0
12.5°	1640.8	1647.2	1636.8	1635.8	1642.6
15°	1542.5	1550.4	1544.3	1541.5	1546.5
17.5°	1443.2	1442.1	1438.5	1436.8	1435.0
20°	1287.2	1293.7	1291.2	1280.4	1286.2
22.5°	1082.1	1082.5	1086.1	1087.9	1083.2
25°	841.5	850.9	851.9	857.7	850.5
27.5°	623.5	625.3	615.7	616.4	623.2
30°	398.4	403.7	400.9	403.7	399.4
32.5°	229.8	234.5	232.7	234.9	235.2
35°	125.9	130.5	126.6	124.8	119.0
37.5°	62.4	62.4	63.8	58.8	55.9
40°	26.9	27.6	26.2	24.7	22.6
42.5°	13.6	13.6	14.3	12.2	11.8
45°	9.7	9.7	10.8	9.3	9.0
47.5°	8.2	8.2	9.0	7.9	7.5
50°	7.2	7.2	7.5	6.8	6.5
52.5°	6.5	6.5	6.8	6.1	5.7
55°	5.7	5.7	5.7	5.4	5.0
57.5°	4.7	5.0	5.0	4.7	4.3
60°	3.9	3.9	4.3	3.9	3.6
62.5°	3.2	3.2	3.2	3.2	2.9
65°	2.2	2.2	2.5	2.2	1.8
67.5°	0.4	0.7	1.8	0.0	0.0
70°	0.0	0.0	0.4	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)