

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: P402124

Luminaire Tested: **LA1MR052D010 EA1M52509030SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402124  
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: LA1MR052D010 EA1M52509030SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

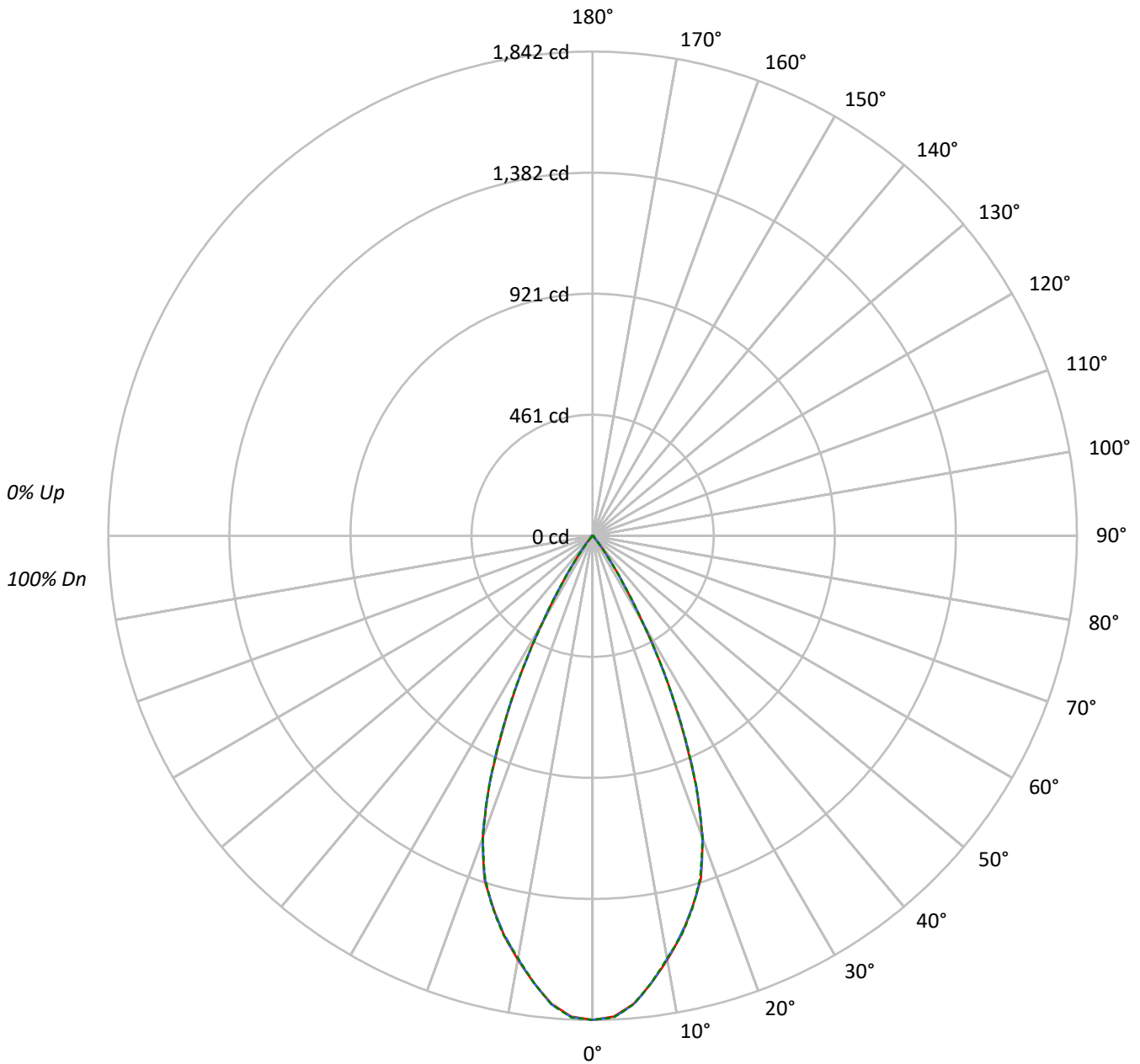
Lumens per Lamp: N/A  
Luminaire Lumens: 1039.4 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	147320	147320	147320
5°	143594	143787	143707
10°	132956	132769	132541
15°	121193	121334	121500
20°	103957	104272	103872
25°	70466	71340	71216
30°	34909	35131	35001
35°	11661	11729	11026
40°	2663	2590	2235
45°	1041	1154	962
50°	846	884	759
55°	753	753	669
60°	592	656	544
65°	379	454	322
70°	0	70	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.8	15.9
10°-20°	406.4	39.1
20°-30°	361.8	34.8
30°-40°	90.3	8.7
40°-50°	8.6	0.8
50°-60°	4.7	0.5
60°-70°	1.9	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°	933.9	89.9
0°-40°	1024.2	98.5
0°-60°	1037.5	99.8
0°-90°	1039.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1788	1795	1790	1789	1790	166
15°	1463	1471	1465	1462	1467	407
25°	798	807	808	814	807	361
35°	119	124	120	118	113	90
45°	9	9	10	9	8	9
55°	5	5	5	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°	1841.5	1841.5	1841.5	1841.5	1841.5
2.5°	1830.9	1839.1	1833.3	1833.7	1834.0
5°	1788.1	1794.6	1790.5	1789.1	1789.5
7.5°	1715.6	1721.4	1715.0	1717.3	1714.6
10°	1636.7	1642.5	1634.4	1634.4	1631.6
12.5°	1556.5	1562.6	1552.7	1551.7	1558.2
15°	1463.3	1470.7	1465.0	1462.2	1467.0
17.5°	1369.0	1368.0	1364.6	1362.9	1361.2
20°	1221.1	1227.2	1224.8	1214.6	1220.1
22.5°	1026.5	1026.9	1030.3	1032.0	1027.5
25°	798.3	807.1	808.2	813.6	806.8
27.5°	591.5	593.2	584.0	584.7	591.2
30°	377.9	383.0	380.3	383.0	378.9
32.5°	218.0	222.4	220.7	222.8	223.1
35°	119.4	123.8	120.1	118.4	112.9
37.5°	59.2	59.2	60.5	55.8	53.1
40°	25.5	26.2	24.8	23.5	21.4
42.5°	12.9	12.9	13.6	11.6	11.2
45°	9.2	9.2	10.2	8.8	8.5
47.5°	7.8	7.8	8.5	7.5	7.1
50°	6.8	6.8	7.1	6.5	6.1
52.5°	6.1	6.1	6.5	5.8	5.4
55°	5.4	5.4	5.4	5.1	4.8
57.5°	4.4	4.8	4.8	4.4	4.1
60°	3.7	3.7	4.1	3.7	3.4
62.5°	3.1	3.1	3.1	3.1	2.7
65°	2.0	2.0	2.4	2.0	1.7
67.5°	0.3	0.7	1.7	0.0	0.0
70°	0.0	0.0	0.3	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)