

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: P401980

Luminaire Tested: **LA1MR102D010 EA1M102509030SC1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P401980  
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: LA1MR102D010 EA1M102509030SC1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

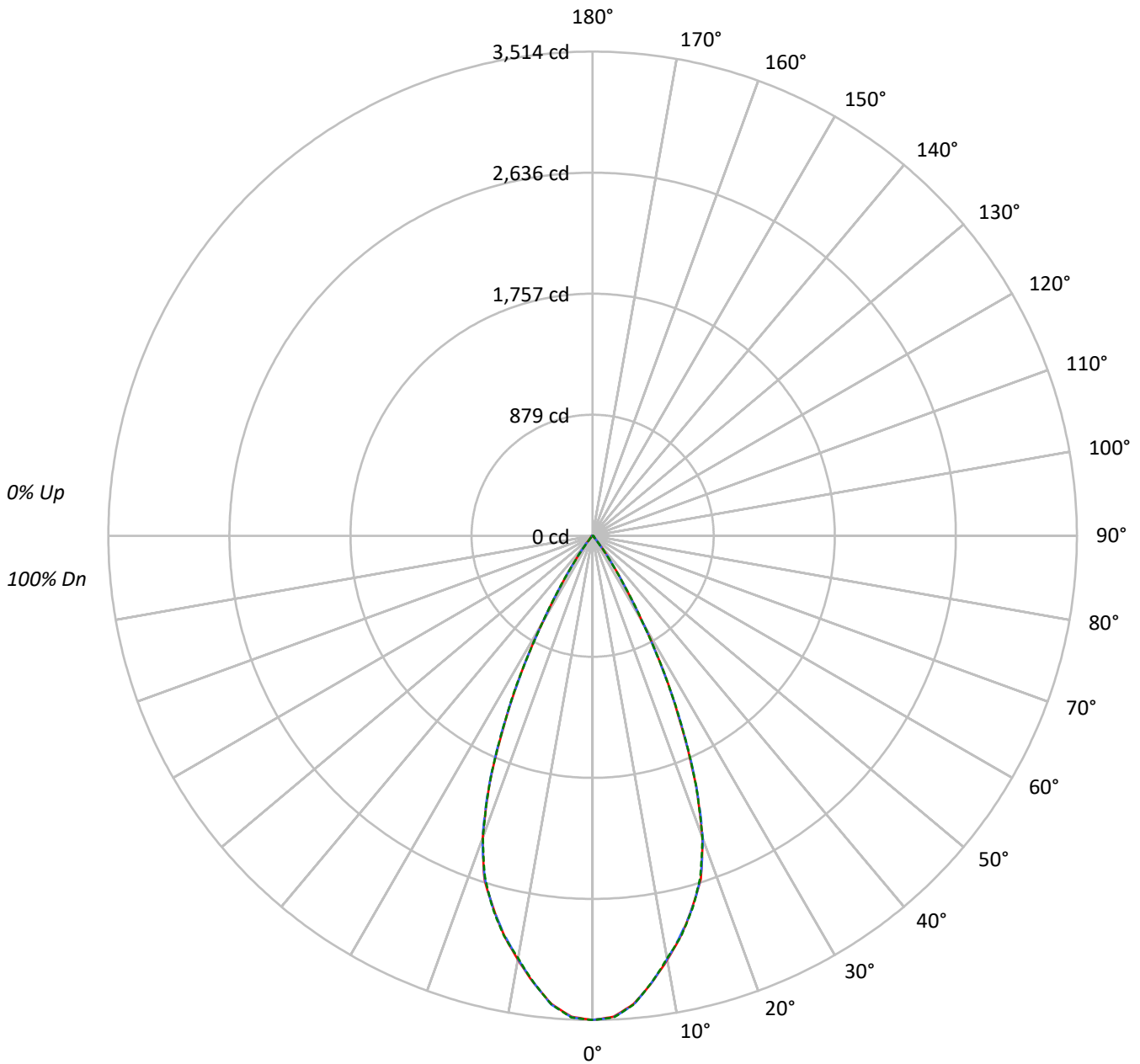
Lumens per Lamp: N/A  
Luminaire Lumens: 1983.4 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.5  
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°	281112	281112	281112
5°	274002	274364	274211
10°	253710	253336	252914
15°	231256	231521	231844
20°	198363	198975	198201
25°	134462	136121	135892
30°	66612	67028	66788
35°	22247	22374	21046
40°	5086	4950	4271
45°	1980	2206	1833
50°	1618	1693	1456
55°	1451	1451	1269
60°	1136	1248	1040
65°	738	852	606
70°	0	140	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.3	15.9
10°-20°	775.4	39.1
20°-30°	690.3	34.8
30°-40°	172.3	8.7
40°-50°	16.4	0.8
50°-60°	9.0	0.5
60°-70°	3.6	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°	1782.1	89.9
0°-40°	1954.4	98.5
0°-60°	1979.8	99.8
0°-90°	1983.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3514	3514	3514	3514	3514	
5°	3412	3424	3416	3414	3415	316
15°	2792	2806	2795	2790	2799	776
25°	1523	1540	1542	1552	1540	688
35°	228	236	229	226	216	171
45°	18	18	20	17	16	17
55°	10	10	10	10	9	9
65°	4	4	4	4	3	3
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°	3513.9	3513.9	3513.9	3513.9	3513.9
2.5°	3493.8	3509.3	3498.3	3499.0	3499.6
5°	3412.0	3424.3	3416.5	3413.9	3414.6
7.5°	3273.7	3284.8	3272.4	3277.0	3271.8
10°	3123.2	3134.2	3118.6	3118.6	3113.4
12.5°	2970.0	2981.7	2962.9	2960.9	2973.2
15°	2792.2	2806.4	2795.4	2790.2	2799.3
17.5°	2612.4	2610.4	2603.9	2600.7	2597.4
20°	2330.0	2341.7	2337.2	2317.7	2328.1
22.5°	1958.8	1959.4	1965.9	1969.2	1960.7
25°	1523.3	1540.2	1542.1	1552.5	1539.5
27.5°	1128.7	1131.9	1114.4	1115.7	1128.0
30°	721.1	730.8	725.6	730.8	723.0
32.5°	416.0	424.5	421.2	425.1	425.8
35°	227.8	236.2	229.1	225.9	215.5
37.5°	112.9	112.9	115.5	106.4	101.2
40°	48.7	50.0	47.4	44.8	40.9
42.5°	24.7	24.7	26.0	22.1	21.4
45°	17.5	17.5	19.5	16.9	16.2
47.5°	14.9	14.9	16.2	14.3	13.6
50°	13.0	13.0	13.6	12.3	11.7
52.5°	11.7	11.7	12.3	11.0	10.4
55°	10.4	10.4	10.4	9.7	9.1
57.5°	8.4	9.1	9.1	8.4	7.8
60°	7.1	7.1	7.8	7.1	6.5
62.5°	5.8	5.8	5.8	5.8	5.2
65°	3.9	3.9	4.5	3.9	3.2
67.5°	0.6	1.3	3.2	0.0	0.0
70°	0.0	0.0	0.6	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)