

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: P401978

Luminaire Tested: **LA1MR102D010 EA1M102509030MW1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P401978
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 EA1M102509030MW1MW
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

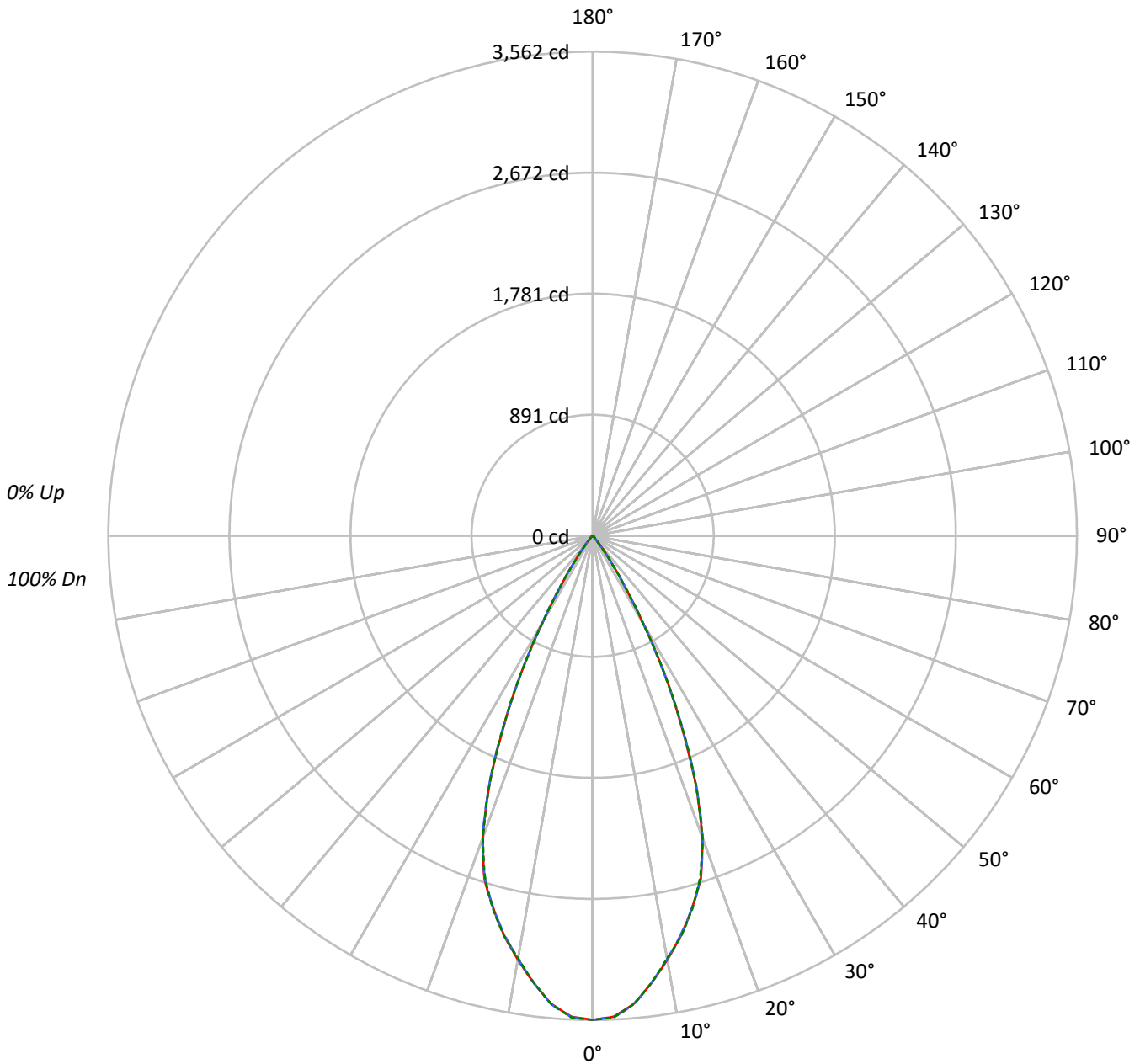
Lumens per Lamp: N/A
Luminaire Lumens: 2010.3 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	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	100	99	98	97	95		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	93	92	91	89	87	85	
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90	90	88	87	85	83	81	79	
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85	85	83	82	80	78	77	75	
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	79	78	76	74	73	71	
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	75	74	72	70	69	67	
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73	73	71	70	68	67	65	64	
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70	70	68	67	65	64	62	61	
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67	67	65	64	62	61	60	59	
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64	64	62	61	60	59	58	57	
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61	61	59	58	57	56	55	54	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	284920	284920	284920
5°	277712	278082	277929
10°	257146	256773	256342
15°	234386	234660	234983
20°	201053	201674	200891
25°	136280	137966	137737
30°	67518	67943	67693
35°	22550	22677	21329
40°	5149	5013	4324
45°	2014	2229	1855
50°	1643	1718	1469
55°	1464	1464	1283
60°	1152	1264	1056
65°	738	871	625
70°	0	164	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	15.9
10°-20°	785.9	39.1
20°-30°	699.7	34.8
30°-40°	174.7	8.7
40°-50°	16.6	0.8
50°-60°	9.1	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°	1806.2	89.8
0°-40°	1980.9	98.5
0°-60°	2006.6	99.8
0°-90°	2010.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3562	3562	3562	3562	3562	
5°	3458	3471	3463	3460	3461	320
15°	2830	2844	2833	2828	2837	786
25°	1544	1561	1563	1574	1560	697
35°	231	240	232	229	218	174
45°	18	18	20	17	16	17
55°	10	10	10	10	9	9
65°	4	4	5	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°	3561.5	3561.5	3561.5	3561.5	3561.5
2.5°	3541.1	3556.9	3545.7	3546.4	3547.1
5°	3458.2	3470.7	3462.8	3460.2	3460.9
7.5°	3318.1	3329.3	3316.8	3321.4	3316.2
10°	3165.5	3176.7	3160.9	3160.9	3155.6
12.5°	3010.3	3022.1	3003.0	3001.0	3013.5
15°	2830.0	2844.5	2833.3	2828.0	2837.2
17.5°	2647.8	2645.8	2639.2	2635.9	2632.7
20°	2361.6	2373.5	2368.9	2349.1	2359.7
22.5°	1985.3	1986.0	1992.6	1995.9	1987.3
25°	1543.9	1561.0	1563.0	1573.5	1560.4
27.5°	1144.0	1147.3	1129.5	1130.8	1143.3
30°	730.9	740.7	735.5	740.7	732.8
32.5°	421.7	430.2	426.9	430.9	431.5
35°	230.9	239.5	232.2	228.9	218.4
37.5°	114.5	114.5	117.1	107.9	102.6
40°	49.3	50.7	48.0	45.4	41.4
42.5°	25.0	25.0	26.3	22.4	21.7
45°	17.8	17.8	19.7	17.1	16.4
47.5°	15.1	15.1	16.4	14.5	13.8
50°	13.2	13.2	13.8	12.5	11.8
52.5°	11.8	11.8	12.5	11.2	10.5
55°	10.5	10.5	10.5	9.9	9.2
57.5°	8.6	9.2	9.2	8.6	7.9
60°	7.2	7.2	7.9	7.2	6.6
62.5°	5.9	5.9	5.9	5.9	5.3
65°	3.9	3.9	4.6	3.9	3.3
67.5°	0.7	1.3	3.3	0.0	0.0
70°	0.0	0.0	0.7	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)