

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: P401974

Luminaire Tested: **LA1MR102D010 EA1M102509027MW1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P401974
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 EA1M102509027MW1MW
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

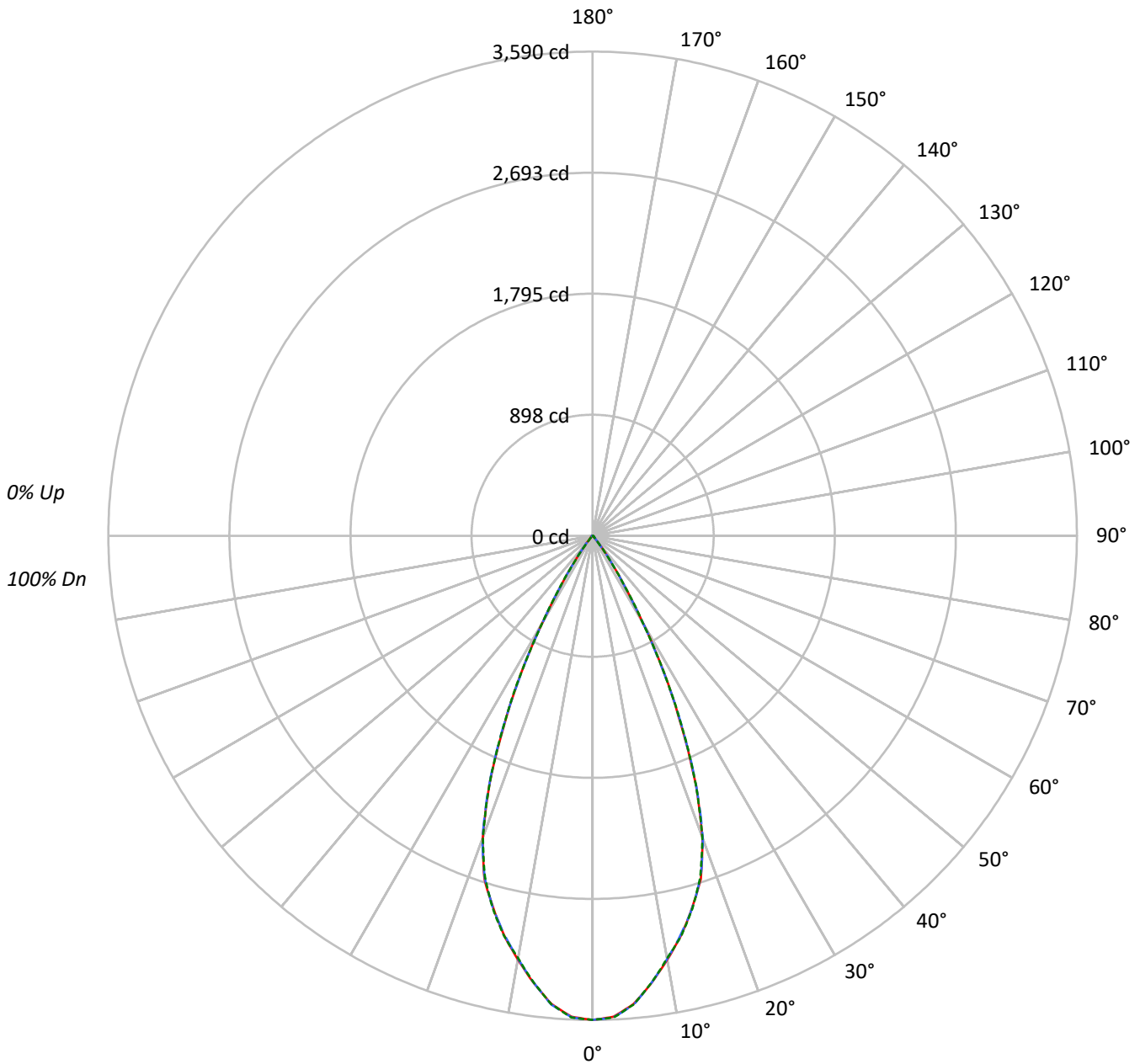
Lumens per Lamp: N/A
Luminaire Lumens: 2026.2 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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			
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°	287176	287176	287176
5°	279913	280290	280130
10°	259185	258804	258373
15°	236241	236515	236846
20°	202645	203266	202475
25°	137366	139061	138822
30°	68044	68478	68229
35°	22726	22863	21495
40°	5190	5055	4365
45°	2025	2251	1878
50°	1655	1730	1481
55°	1478	1478	1297
60°	1168	1280	1056
65°	757	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°	323.1	15.9
10°-20°	792.2	39.1
20°-30°	705.2	34.8
30°-40°	176.0	8.7
40°-50°	16.8	0.8
50°-60°	9.2	0.5
60°-70°	3.7	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°	1820.5	89.8
0°-40°	1996.6	98.5
0°-60°	2022.5	99.8
0°-90°	2026.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2026.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3590	3590	3590	3590	3590	
5°	3486	3498	3490	3488	3488	323
15°	2852	2867	2856	2850	2860	792
25°	1556	1573	1575	1586	1573	703
35°	233	241	234	231	220	175
45°	18	18	20	17	17	17
55°	11	11	11	10	9	9
65°	4	4	5	4	3	4
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°	3589.7	3589.7	3589.7	3589.7	3589.7
2.5°	3569.2	3585.1	3573.8	3574.5	3575.1
5°	3485.6	3498.2	3490.3	3487.6	3488.3
7.5°	3344.4	3355.7	3343.1	3347.7	3342.4
10°	3190.6	3201.8	3185.9	3185.9	3180.6
12.5°	3034.1	3046.0	3026.8	3024.8	3037.4
15°	2852.4	2867.0	2855.7	2850.4	2859.7
17.5°	2668.7	2666.8	2660.1	2656.8	2653.5
20°	2380.3	2392.3	2387.6	2367.7	2378.3
22.5°	2001.1	2001.7	2008.4	2011.7	2003.1
25°	1556.2	1573.4	1575.4	1586.0	1572.7
27.5°	1153.0	1156.3	1138.4	1139.8	1152.4
30°	736.6	746.6	741.3	746.6	738.6
32.5°	425.0	433.6	430.3	434.3	435.0
35°	232.7	241.3	234.1	230.7	220.1
37.5°	115.4	115.4	118.0	108.7	103.4
40°	49.7	51.1	48.4	45.7	41.8
42.5°	25.2	25.2	26.5	22.5	21.9
45°	17.9	17.9	19.9	17.2	16.6
47.5°	15.2	15.2	16.6	14.6	13.9
50°	13.3	13.3	13.9	12.6	11.9
52.5°	11.9	11.9	12.6	11.3	10.6
55°	10.6	10.6	10.6	9.9	9.3
57.5°	8.6	9.3	9.3	8.6	8.0
60°	7.3	7.3	8.0	7.3	6.6
62.5°	6.0	6.0	6.0	6.0	5.3
65°	4.0	4.0	4.6	4.0	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)