

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: P401976

Luminaire Tested: **LA1MR102D010 EA1M102509027SC1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P401976
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 EA1M102509027SC1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

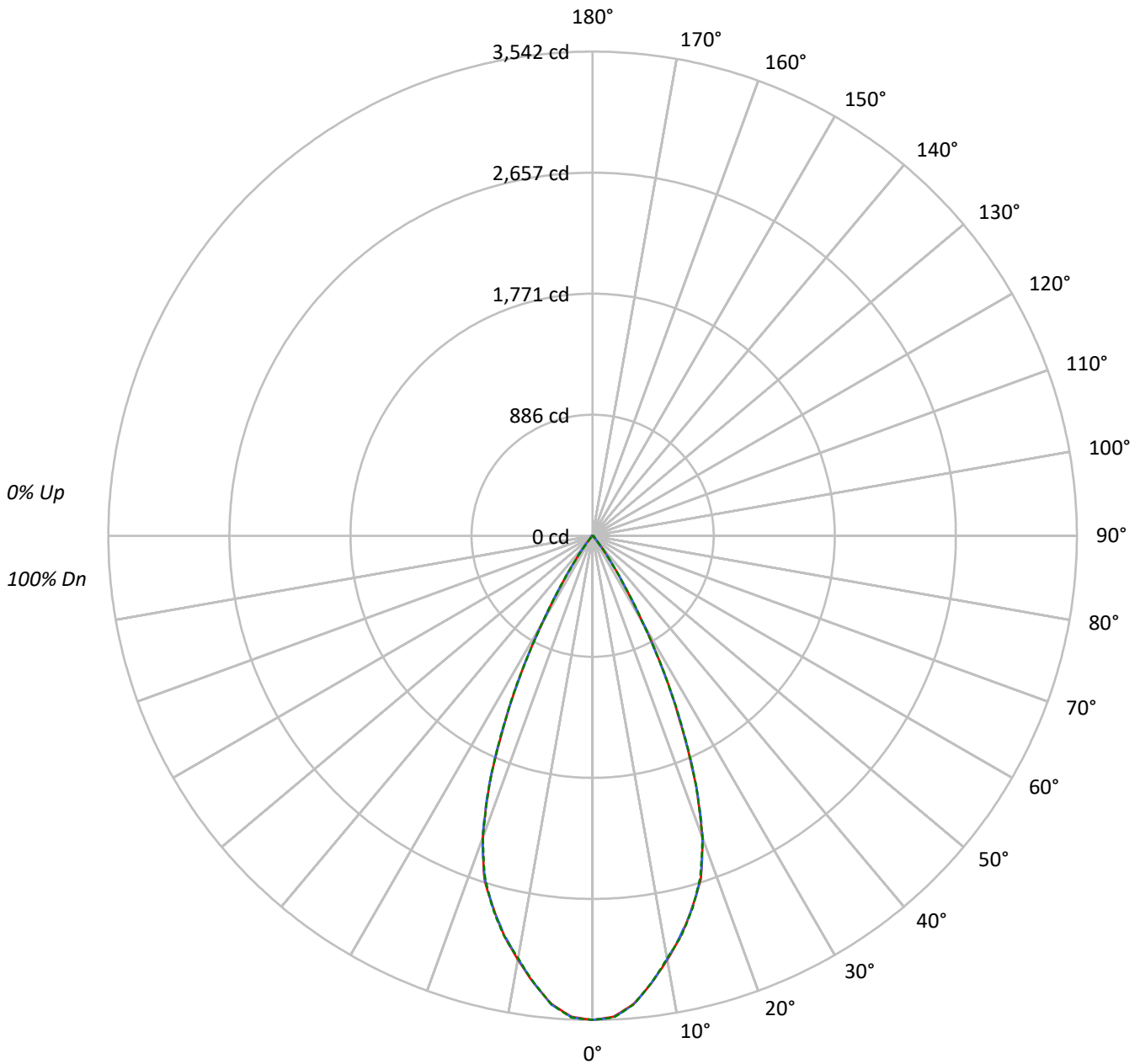
Lumens per Lamp: N/A
Luminaire Lumens: 1999.1 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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																			
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°	283336	283336	283336
5°	276171	276540	276379
10°	255717	255343	254921
15°	233086	233351	233682
20°	199938	200550	199767
25°	135521	137198	136969
30°	67139	67564	67324
35°	22423	22550	21212
40°	5128	4992	4303
45°	2003	2217	1855
50°	1630	1705	1469
55°	1464	1464	1283
60°	1152	1264	1040
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°	318.8	15.9
10°-20°	781.6	39.1
20°-30°	695.8	34.8
30°-40°	173.7	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°	1796.2	89.8
0°-40°	1969.9	98.5
0°-60°	1995.5	99.8
0°-90°	1999.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3542	3542	3542	3542	3542	
5°	3439	3451	3444	3441	3442	319
15°	2814	2829	2818	2812	2822	782
25°	1535	1552	1554	1565	1552	693
35°	230	238	231	228	217	173
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°	3541.7	3541.7	3541.7	3541.7	3541.7
2.5°	3521.4	3537.1	3526.0	3526.7	3527.3
5°	3439.0	3451.4	3443.6	3441.0	3441.6
7.5°	3299.7	3310.8	3298.3	3302.9	3297.7
10°	3147.9	3159.0	3143.3	3143.3	3138.1
12.5°	2993.5	3005.3	2986.3	2984.3	2996.8
15°	2814.3	2828.7	2817.5	2812.3	2821.5
17.5°	2633.1	2631.1	2624.5	2621.3	2618.0
20°	2348.5	2360.3	2355.7	2336.1	2346.5
22.5°	1974.3	1975.0	1981.5	1984.8	1976.3
25°	1535.3	1552.4	1554.3	1564.8	1551.7
27.5°	1137.6	1140.9	1123.2	1124.5	1137.0
30°	726.8	736.6	731.4	736.6	728.8
32.5°	419.3	427.8	424.6	428.5	429.1
35°	229.6	238.1	230.9	227.7	217.2
37.5°	113.8	113.8	116.4	107.3	102.1
40°	49.1	50.4	47.8	45.1	41.2
42.5°	24.9	24.9	26.2	22.2	21.6
45°	17.7	17.7	19.6	17.0	16.4
47.5°	15.0	15.0	16.4	14.4	13.7
50°	13.1	13.1	13.7	12.4	11.8
52.5°	11.8	11.8	12.4	11.1	10.5
55°	10.5	10.5	10.5	9.8	9.2
57.5°	8.5	9.2	9.2	8.5	7.9
60°	7.2	7.2	7.9	7.2	6.5
62.5°	5.9	5.9	5.9	5.9	5.2
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)