

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: P402132

Luminaire Tested: **LA1MR052D010 EA1M52509040SC1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402132
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 EA1M52509040SC1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

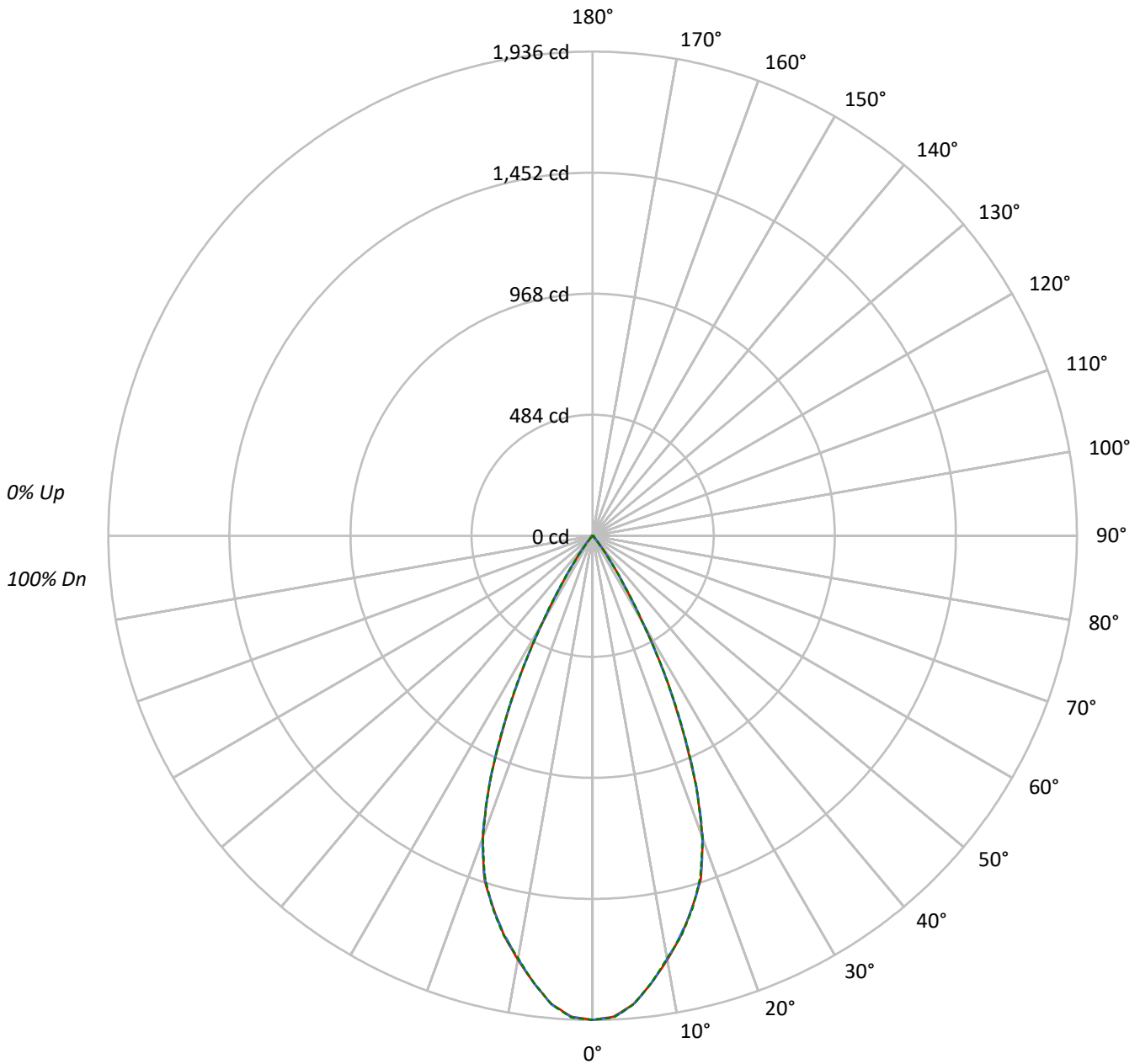
Lumens per Lamp: N/A
Luminaire Lumens: 1092.6 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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																			
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°	154856	154856	154856
5°	150934	151135	151055
10°	139755	139552	139325
15°	127389	127538	127712
20°	109270	109610	109185
25°	74067	74985	74862
30°	36692	36923	36793
35°	12257	12325	11592
40°	2799	2726	2350
45°	1097	1211	1007
50°	896	933	797
55°	795	795	697
60°	624	688	576
65°	398	473	341
70°	0	94	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	15.9
10°-20°	427.2	39.1
20°-30°	380.3	34.8
30°-40°	94.9	8.7
40°-50°	9.0	0.8
50°-60°	4.9	0.5
60°-70°	2.0	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°	981.7	89.9
0°-40°	1076.6	98.5
0°-60°	1090.6	99.8
0°-90°	1092.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1092.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1880	1886	1882	1881	1881	174
15°	1538	1546	1540	1537	1542	427
25°	839	848	850	855	848	379
35°	126	130	126	124	119	94
45°	10	10	11	9	9	9
55°	6	6	6	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°	1935.7	1935.7	1935.7	1935.7	1935.7
2.5°	1924.6	1933.2	1927.1	1927.5	1927.8
5°	1879.5	1886.3	1882.0	1880.6	1881.0
7.5°	1803.4	1809.5	1802.7	1805.2	1802.3
10°	1720.4	1726.5	1717.9	1717.9	1715.1
12.5°	1636.1	1642.5	1632.1	1631.1	1637.9
15°	1538.1	1546.0	1539.9	1537.0	1542.0
17.5°	1439.1	1438.0	1434.4	1432.6	1430.8
20°	1283.5	1290.0	1287.5	1276.7	1282.5
22.5°	1079.0	1079.4	1083.0	1084.8	1080.1
25°	839.1	848.4	849.5	855.2	848.1
27.5°	621.7	623.5	613.9	614.6	621.4
30°	397.2	402.6	399.7	402.6	398.3
32.5°	229.2	233.8	232.0	234.2	234.5
35°	125.5	130.1	126.2	124.4	118.7
37.5°	62.2	62.2	63.6	58.6	55.8
40°	26.8	27.5	26.1	24.7	22.5
42.5°	13.6	13.6	14.3	12.2	11.8
45°	9.7	9.7	10.7	9.3	8.9
47.5°	8.2	8.2	8.9	7.9	7.5
50°	7.2	7.2	7.5	6.8	6.4
52.5°	6.4	6.4	6.8	6.1	5.7
55°	5.7	5.7	5.7	5.4	5.0
57.5°	4.6	5.0	5.0	4.6	4.3
60°	3.9	3.9	4.3	3.9	3.6
62.5°	3.2	3.2	3.2	3.2	2.9
65°	2.1	2.1	2.5	2.1	1.8
67.5°	0.4	0.7	1.8	0.0	0.0
70°	0.0	0.0	0.4	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)