

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: P402123

Luminaire Tested: **LA1MR052D010 EA1M52509030SB1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402123
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 EA1M52509030SB1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

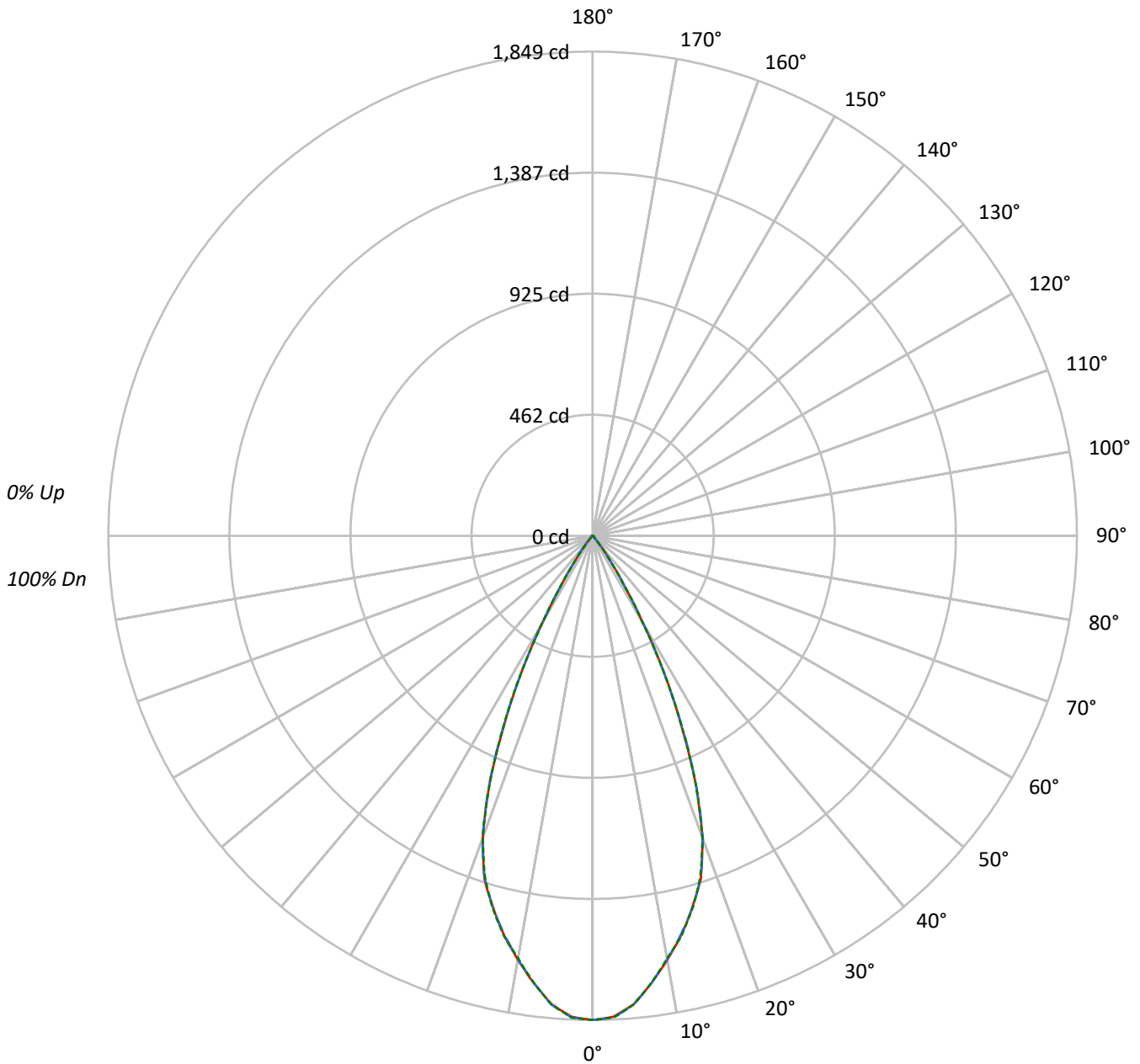
Lumens per Lamp: N/A
Luminaire Lumens: 1043.8 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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					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°	147936	147936	147936
5°	144197	144389	144309
10°	133516	133321	133102
15°	121699	121839	122013
20°	104391	104715	104306
25°	70766	71640	71516
30°	35057	35278	35149
35°	11710	11778	11075
40°	2673	2600	2245
45°	1041	1154	962
50°	846	896	759
55°	767	767	669
60°	608	656	544
65°	379	454	322
70°	0	70	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	15.9
10°-20°	408.1	39.1
20°-30°	363.3	34.8
30°-40°	90.7	8.7
40°-50°	8.6	0.8
50°-60°	4.7	0.5
60°-70°	1.9	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°	937.8	89.8
0°-40°	1028.5	98.5
0°-60°	1041.9	99.8
0°-90°	1043.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1849	1849	1849	1849	1849	
5°	1796	1802	1798	1797	1797	166
15°	1469	1477	1471	1468	1473	408
25°	802	810	812	817	810	362
35°	120	124	121	119	113	90
45°	9	9	10	9	8	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°	1849.2	1849.2	1849.2	1849.2	1849.2
2.5°	1838.7	1846.8	1841.0	1841.4	1841.7
5°	1795.6	1802.1	1798.0	1796.6	1797.0
7.5°	1722.9	1728.7	1722.2	1724.6	1721.8
10°	1643.6	1649.4	1641.2	1641.2	1638.5
12.5°	1563.0	1569.2	1559.2	1558.2	1564.7
15°	1469.4	1476.9	1471.1	1468.4	1473.2
17.5°	1374.8	1373.8	1370.4	1368.7	1366.9
20°	1226.2	1232.4	1230.0	1219.7	1225.2
22.5°	1030.8	1031.2	1034.6	1036.3	1031.9
25°	801.7	810.5	811.6	817.0	810.2
27.5°	594.0	595.7	586.5	587.2	593.6
30°	379.5	384.6	381.9	384.6	380.5
32.5°	218.9	223.4	221.7	223.7	224.1
35°	119.9	124.3	120.6	118.9	113.4
37.5°	59.4	59.4	60.8	56.0	53.3
40°	25.6	26.3	24.9	23.6	21.5
42.5°	13.0	13.0	13.7	11.6	11.3
45°	9.2	9.2	10.2	8.9	8.5
47.5°	7.9	7.9	8.5	7.5	7.2
50°	6.8	6.8	7.2	6.5	6.1
52.5°	6.1	6.1	6.5	5.8	5.5
55°	5.5	5.5	5.5	5.1	4.8
57.5°	4.4	4.8	4.8	4.4	4.1
60°	3.8	3.8	4.1	3.8	3.4
62.5°	3.1	3.1	3.1	3.1	2.7
65°	2.0	2.0	2.4	2.0	1.7
67.5°	0.3	0.7	1.7	0.0	0.0
70°	0.0	0.0	0.3	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)