

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: P402126

Luminaire Tested: **LA1MR052D010 EA1M52509035MW1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402126
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 EA1M52509035MW1MW
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

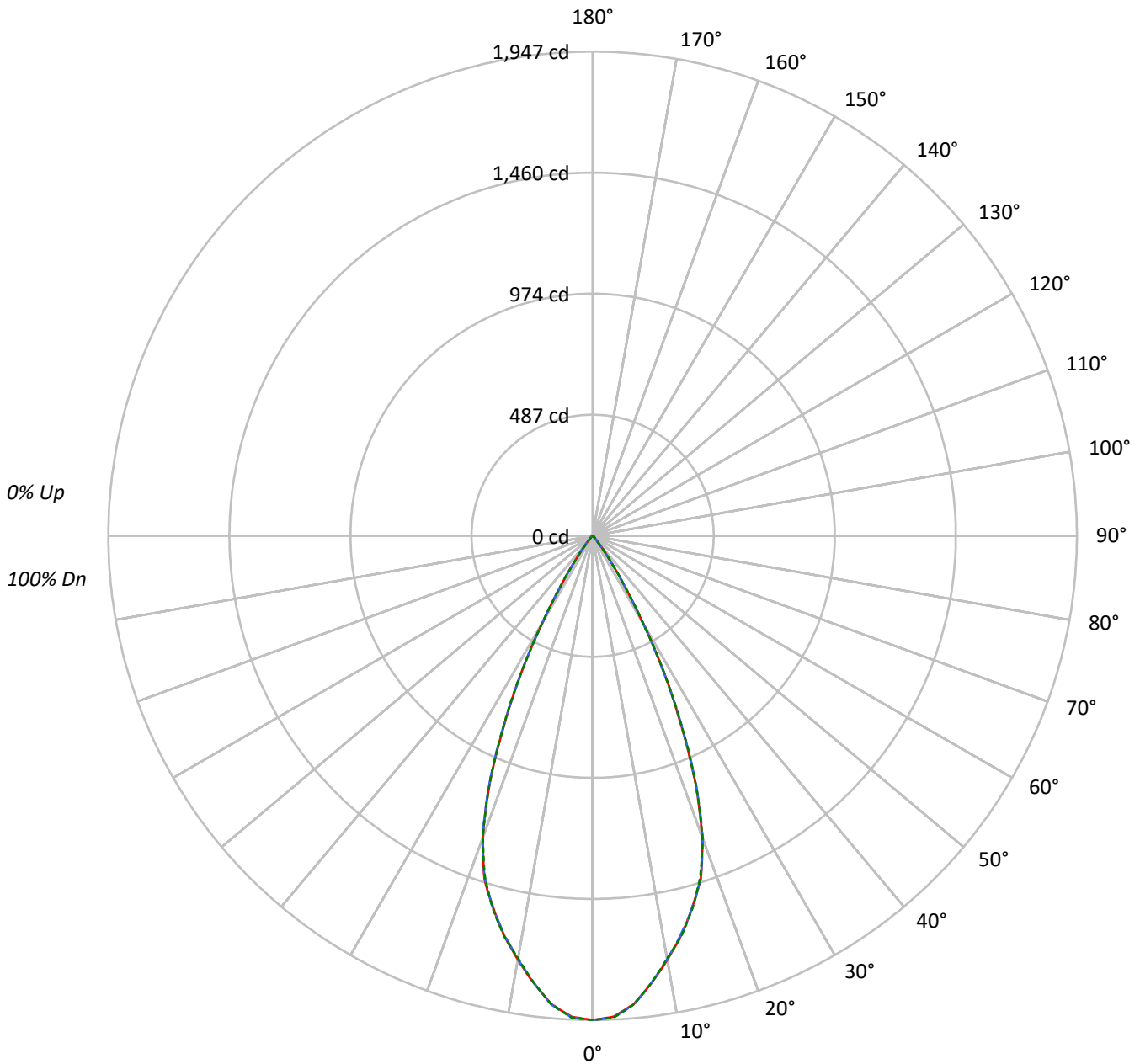
Lumens per Lamp: N/A
Luminaire Lumens: 1099.1 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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	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°	155768	155768	155768
5°	151834	152034	151946
10°	140584	140381	140145
15°	128142	128291	128474
20°	109917	110257	109832
25°	74509	75427	75303
30°	36913	37144	37006
35°	12325	12403	11661
40°	2820	2747	2371
45°	1097	1222	1018
50°	896	946	809
55°	809	809	697
60°	640	688	576
65°	416	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°	175.3	15.9
10°-20°	429.7	39.1
20°-30°	382.5	34.8
30°-40°	95.5	8.7
40°-50°	9.1	0.8
50°-60°	5.0	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°	987.5	89.8
0°-40°	1083.0	98.5
0°-60°	1097.1	99.8
0°-90°	1099.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1947	1947	1947	1947	1947	
5°	1891	1898	1893	1892	1892	175
15°	1547	1555	1549	1546	1551	430
25°	844	853	854	860	853	381
35°	126	131	127	125	119	95
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°	1947.1	1947.1	1947.1	1947.1	1947.1
2.5°	1936.0	1944.6	1938.5	1938.9	1939.2
5°	1890.7	1897.5	1893.2	1891.7	1892.1
7.5°	1814.1	1820.2	1813.3	1815.9	1813.0
10°	1730.6	1736.7	1728.1	1728.1	1725.2
12.5°	1645.7	1652.2	1641.8	1640.7	1647.5
15°	1547.2	1555.1	1549.0	1546.1	1551.2
17.5°	1447.6	1446.5	1442.9	1441.1	1439.3
20°	1291.1	1297.6	1295.1	1284.3	1290.1
22.5°	1085.4	1085.8	1089.4	1091.2	1086.5
25°	844.1	853.4	854.5	860.3	853.1
27.5°	625.4	627.2	617.5	618.2	625.1
30°	399.6	405.0	402.1	405.0	400.6
32.5°	230.5	235.2	233.4	235.6	235.9
35°	126.2	130.9	127.0	125.2	119.4
37.5°	62.6	62.6	64.0	59.0	56.1
40°	27.0	27.7	26.3	24.8	22.7
42.5°	13.7	13.7	14.4	12.2	11.9
45°	9.7	9.7	10.8	9.4	9.0
47.5°	8.3	8.3	9.0	7.9	7.6
50°	7.2	7.2	7.6	6.8	6.5
52.5°	6.5	6.5	6.8	6.1	5.8
55°	5.8	5.8	5.8	5.4	5.0
57.5°	4.7	5.0	5.0	4.7	4.3
60°	4.0	4.0	4.3	4.0	3.6
62.5°	3.2	3.2	3.2	3.2	2.9
65°	2.2	2.2	2.5	2.2	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)