

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: P401975

Luminaire Tested: **LA1MR102D010 EA1M102509027SB1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P401975
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 EA1M102509027SB1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

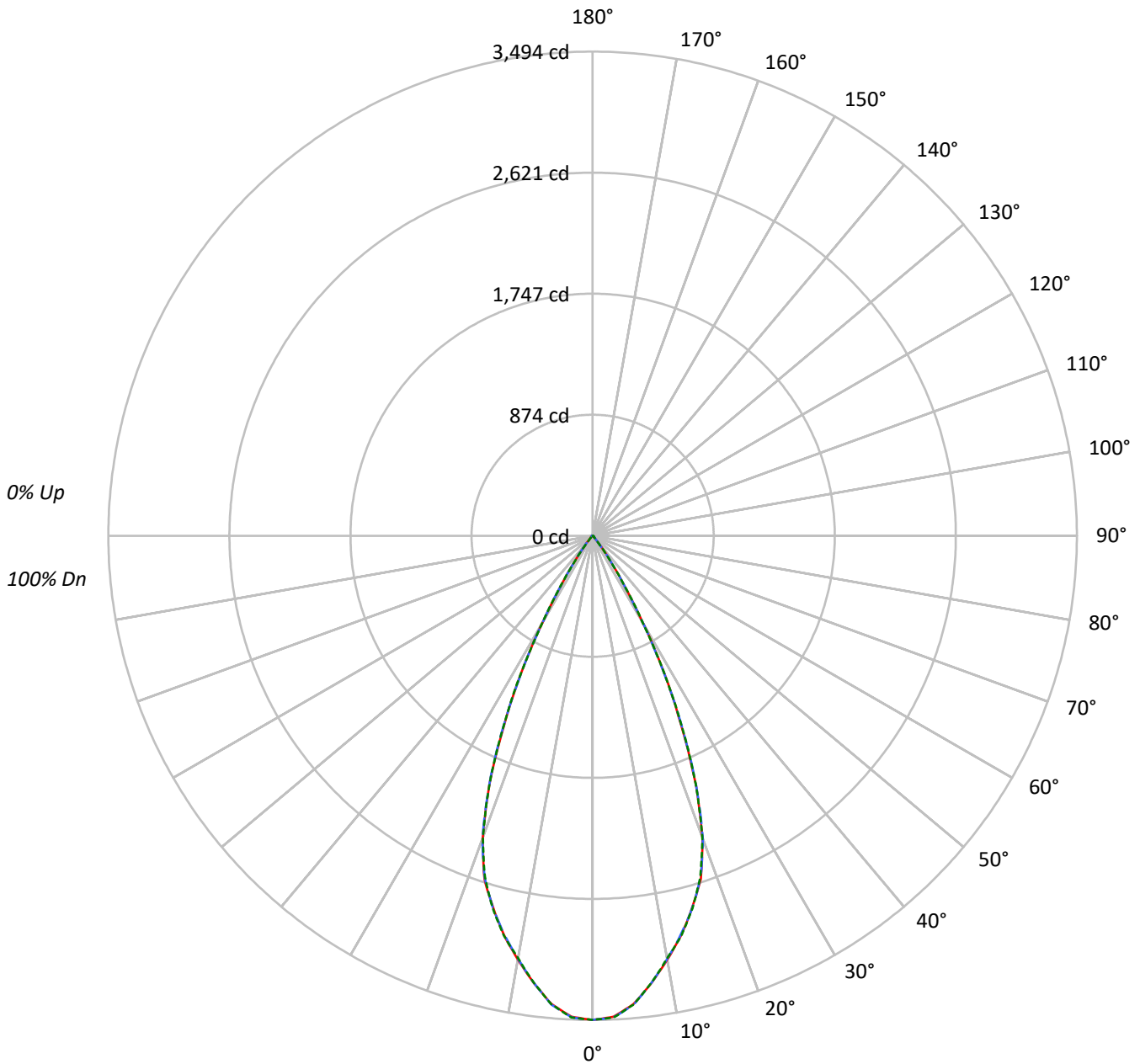
Lumens per Lamp: N/A
Luminaire Lumens: 1972.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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°	279496	279496	279496
5°	272428	272790	272637
10°	252248	251882	251460
15°	229922	230187	230510
20°	197222	197826	197060
25°	133685	135336	135115
30°	66224	66649	66409
35°	22120	22247	20919
40°	5055	4919	4250
45°	1969	2195	1822
50°	1606	1693	1444
55°	1437	1437	1255
60°	1136	1232	1040
65°	738	852	606
70°	0	140	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	15.9
10°-20°	771.0	39.1
20°-30°	686.4	34.8
30°-40°	171.3	8.7
40°-50°	16.3	0.8
50°-60°	8.9	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°	1771.8	89.8
0°-40°	1943.2	98.5
0°-60°	1968.4	99.8
0°-90°	1972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3494	3494	3494	3494	3494	
5°	3392	3405	3397	3394	3395	314
15°	2776	2790	2779	2774	2783	771
25°	1514	1531	1533	1544	1531	684
35°	226	235	228	225	214	170
45°	17	17	19	17	16	17
55°	10	10	10	10	9	9
65°	4	4	4	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°	3493.7	3493.7	3493.7	3493.7	3493.7
2.5°	3473.7	3489.2	3478.2	3478.8	3479.5
5°	3392.4	3404.6	3396.9	3394.3	3395.0
7.5°	3254.9	3265.9	3253.6	3258.1	3253.0
10°	3105.2	3116.2	3100.7	3100.7	3095.5
12.5°	2952.9	2964.5	2945.8	2943.9	2956.1
15°	2776.1	2790.3	2779.3	2774.2	2783.2
17.5°	2597.4	2595.4	2589.0	2585.7	2582.5
20°	2316.6	2328.3	2323.7	2304.4	2314.7
22.5°	1947.5	1948.2	1954.6	1957.9	1949.5
25°	1514.5	1531.3	1533.2	1543.6	1530.7
27.5°	1122.2	1125.4	1108.0	1109.3	1121.5
30°	716.9	726.6	721.5	726.6	718.9
32.5°	413.6	422.0	418.8	422.7	423.3
35°	226.5	234.9	227.8	224.6	214.2
37.5°	112.3	112.3	114.9	105.8	100.7
40°	48.4	49.7	47.1	44.5	40.7
42.5°	24.5	24.5	25.8	21.9	21.3
45°	17.4	17.4	19.4	16.8	16.1
47.5°	14.8	14.8	16.1	14.2	13.6
50°	12.9	12.9	13.6	12.3	11.6
52.5°	11.6	11.6	12.3	11.0	10.3
55°	10.3	10.3	10.3	9.7	9.0
57.5°	8.4	9.0	9.0	8.4	7.7
60°	7.1	7.1	7.7	7.1	6.5
62.5°	5.8	5.8	5.8	5.8	5.2
65°	3.9	3.9	4.5	3.9	3.2
67.5°	0.6	1.3	3.2	0.0	0.0
70°	0.0	0.0	0.6	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)