

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: P401981

Luminaire Tested: **LA1MR102D010 EA1M102509035MMS1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P401981
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 EA1M102509035MMS1MW
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

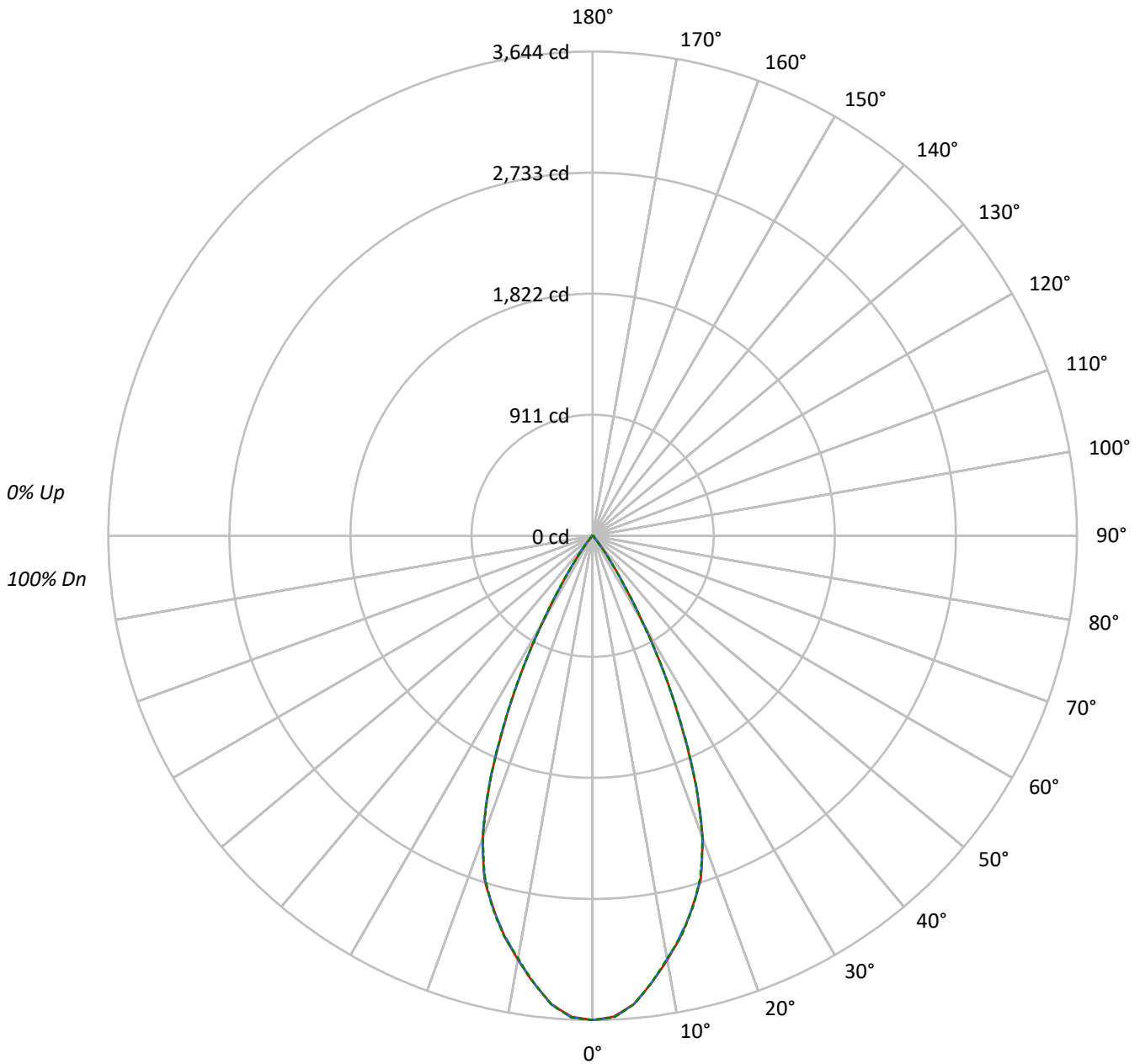
Lumens per Lamp: N/A
Luminaire Lumens: 2057.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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				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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90	90	90	90
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85	85	85	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	81	81
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	77	77
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73	73	73	73
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70	70	70	70
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67	67	67	67
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64	64	64	64
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61	61	61	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	291544	291544	291544
5°	284169	284546	284386
10°	263125	262743	262305
15°	239836	240118	240449
20°	205727	206357	205556
25°	139449	141179	140941
30°	69079	69522	69273
35°	23077	23204	21827
40°	5274	5128	4428
45°	2059	2285	1901
50°	1680	1755	1506
55°	1506	1506	1311
60°	1184	1296	1072
65°	757	890	644
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°	328.0	15.9
10°-20°	804.2	39.1
20°-30°	716.0	34.8
30°-40°	178.7	8.7
40°-50°	17.0	0.8
50°-60°	9.3	0.5
60°-70°	3.7	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°	1848.2	89.8
0°-40°	2026.9	98.5
0°-60°	2053.3	99.8
0°-90°	2057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3644	3644	3644	3644	3644	
5°	3539	3551	3543	3541	3541	328
15°	2896	2911	2899	2894	2903	804
25°	1580	1597	1599	1610	1597	714
35°	236	245	238	234	224	178
45°	18	18	20	18	17	17
55°	11	11	11	10	9	9
65°	4	4	5	4	3	4
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3644.3	3644.3	3644.3	3644.3	3644.3
2.5°	3623.4	3639.6	3628.2	3628.8	3629.5
5°	3538.6	3551.4	3543.3	3540.7	3541.3
7.5°	3395.3	3406.7	3393.9	3398.6	3393.2
10°	3239.1	3250.5	3234.4	3234.4	3229.0
12.5°	3080.2	3092.3	3072.8	3070.8	3083.6
15°	2895.8	2910.6	2899.2	2893.8	2903.2
17.5°	2709.3	2707.3	2700.6	2697.2	2693.9
20°	2416.5	2428.6	2423.9	2403.7	2414.5
22.5°	2031.5	2032.2	2038.9	2042.3	2033.5
25°	1579.8	1597.3	1599.4	1610.1	1596.7
27.5°	1170.6	1173.9	1155.8	1157.1	1169.9
30°	747.8	757.9	752.6	757.9	749.9
32.5°	431.5	440.2	436.9	440.9	441.6
35°	236.3	245.0	237.6	234.2	223.5
37.5°	117.1	117.1	119.8	110.4	105.0
40°	50.5	51.8	49.1	46.4	42.4
42.5°	25.6	25.6	26.9	22.9	22.2
45°	18.2	18.2	20.2	17.5	16.8
47.5°	15.5	15.5	16.8	14.8	14.1
50°	13.5	13.5	14.1	12.8	12.1
52.5°	12.1	12.1	12.8	11.4	10.8
55°	10.8	10.8	10.8	10.1	9.4
57.5°	8.8	9.4	9.4	8.8	8.1
60°	7.4	7.4	8.1	7.4	6.7
62.5°	6.1	6.1	6.1	6.1	5.4
65°	4.0	4.0	4.7	4.0	3.4
67.5°	0.7	1.3	3.4	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)