

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: P401977

Luminaire Tested: **LA1MR102D010 EA1M102509030MMS1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P401977
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 EA1M102509030MMS1MW
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

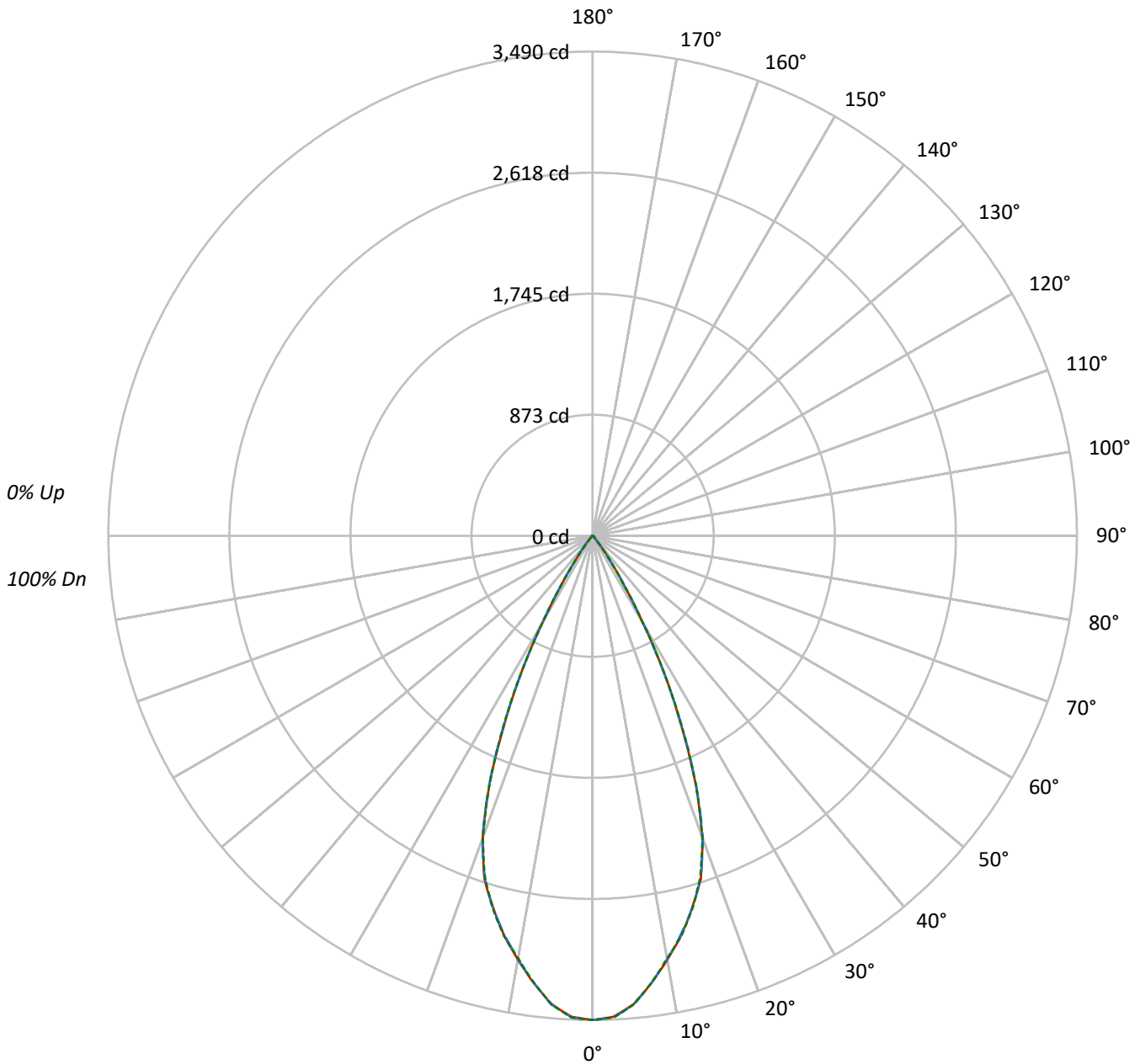
Lumens per Lamp: N/A
Luminaire Lumens: 1969.9 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	279208	279208	279208
5°	272147	272509	272348
10°	251988	251622	251200
15°	229682	229955	230270
20°	197017	197622	196856
25°	133553	135203	134974
30°	66160	66575	66335
35°	22101	22228	20900
40°	5044	4919	4240
45°	1969	2184	1822
50°	1606	1680	1444
55°	1437	1437	1255
60°	1136	1232	1024
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°	314.2	15.9
10°-20°	770.2	39.1
20°-30°	685.7	34.8
30°-40°	171.1	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°	1770.0	89.8
0°-40°	1941.1	98.5
0°-60°	1966.4	99.8
0°-90°	1969.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3490	3490	3490	3490	3490	
5°	3389	3401	3393	3391	3391	314
15°	2773	2787	2776	2771	2780	770
25°	1513	1530	1532	1542	1529	683
35°	226	235	228	224	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°	3490.1	3490.1	3490.1	3490.1	3490.1
2.5°	3470.1	3485.6	3474.6	3475.2	3475.9
5°	3388.9	3401.1	3393.4	3390.8	3391.4
7.5°	3251.6	3262.5	3250.3	3254.8	3249.6
10°	3102.0	3113.0	3097.5	3097.5	3092.3
12.5°	2949.9	2961.5	2942.8	2940.8	2953.1
15°	2773.2	2787.4	2776.5	2771.3	2780.3
17.5°	2594.7	2592.7	2586.3	2583.1	2579.8
20°	2314.2	2325.9	2321.3	2302.0	2312.3
22.5°	1945.5	1946.2	1952.6	1955.8	1947.5
25°	1513.0	1529.7	1531.7	1542.0	1529.1
27.5°	1121.0	1124.2	1106.8	1108.1	1120.4
30°	716.2	725.9	720.7	725.9	718.1
32.5°	413.2	421.6	418.4	422.2	422.9
35°	226.3	234.6	227.6	224.3	214.0
37.5°	112.2	112.2	114.7	105.7	100.6
40°	48.3	49.6	47.1	44.5	40.6
42.5°	24.5	24.5	25.8	21.9	21.3
45°	17.4	17.4	19.3	16.8	16.1
47.5°	14.8	14.8	16.1	14.2	13.5
50°	12.9	12.9	13.5	12.2	11.6
52.5°	11.6	11.6	12.2	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	6.4
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)