

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: P402029

Luminaire Tested: **LA1MR012D010 EA1M12509035MMS1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402029
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: LA1MR012D010 EA1M12509035MMS1MW
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

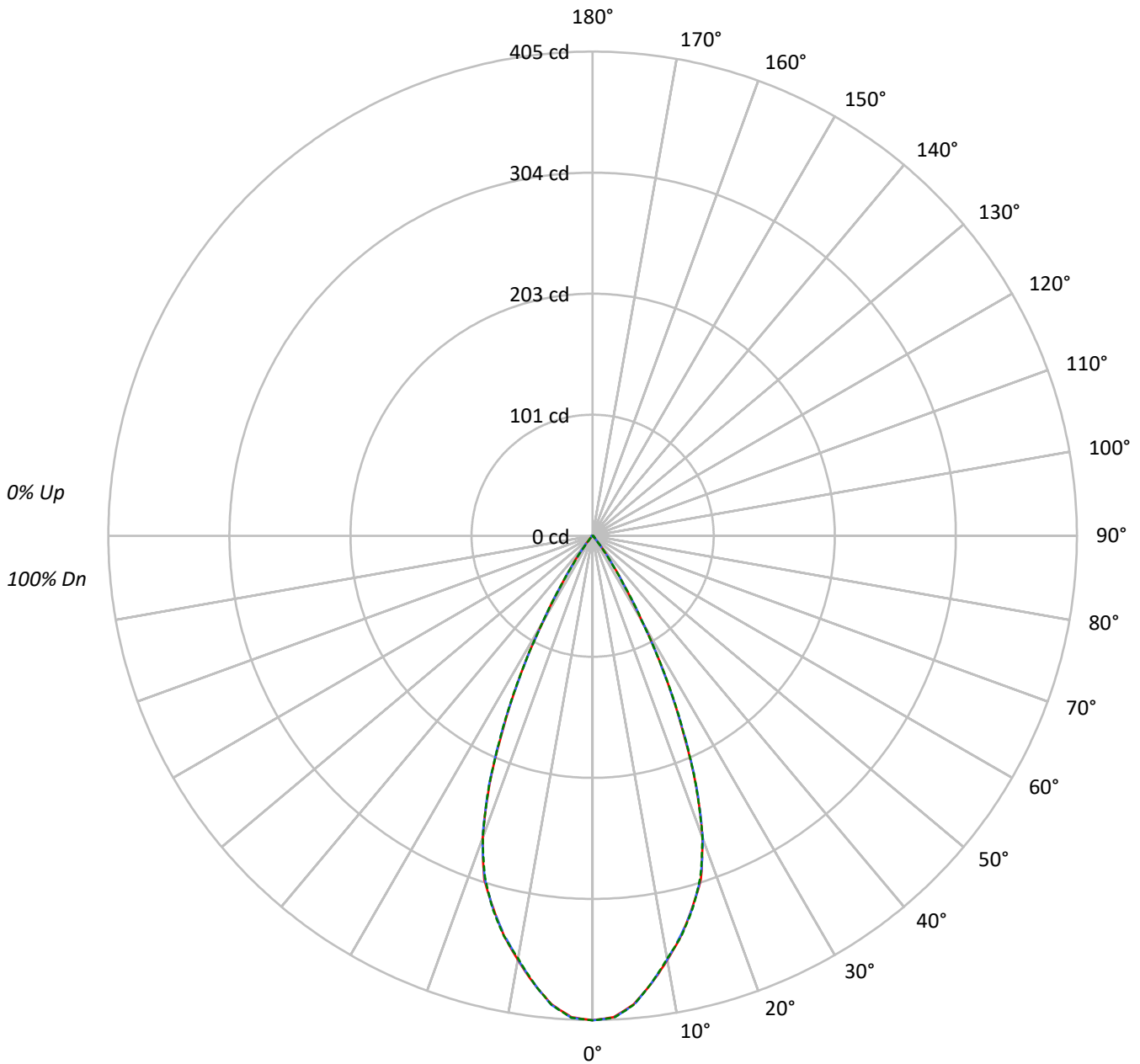
Lumens per Lamp: N/A
Luminaire Lumens: 228.7 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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°	32424	32424	32424
5°	31600	31640	31624
10°	29261	29220	29171
15°	26669	26702	26743
20°	22876	22952	22859
25°	15509	15703	15677
30°	7686	7732	7704
35°	2569	2578	2432
40°	585	574	491
45°	226	249	215
50°	187	199	162
55°	167	167	139
60°	128	144	112
65°	76	95	76
70°	0	23	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	15.9
10°-20°	89.4	39.1
20°-30°	79.6	34.8
30°-40°	19.9	8.7
40°-50°	1.9	0.8
50°-60°	1.0	0.4
60°-70°	0.4	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°	205.5	89.9
0°-40°	225.4	98.5
0°-60°	228.3	99.8
0°-90°	228.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	228.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	405	405	405	405	405	
5°	394	395	394	394	394	36
15°	322	324	322	322	323	89
25°	176	178	178	179	178	79
35°	26	27	26	26	25	20
45°	2	2	2	2	2	2
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
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°	405.3	405.3	405.3	405.3	405.3
2.5°	403.0	404.8	403.5	403.6	403.6
5°	393.5	394.9	394.0	393.7	393.8
7.5°	377.6	378.9	377.4	378.0	377.4
10°	360.2	361.5	359.7	359.7	359.1
12.5°	342.5	343.9	341.7	341.5	342.9
15°	322.0	323.7	322.4	321.8	322.9
17.5°	301.3	301.1	300.3	300.0	299.6
20°	268.7	270.1	269.6	267.3	268.5
22.5°	225.9	226.0	226.7	227.1	226.1
25°	175.7	177.6	177.9	179.1	177.6
27.5°	130.2	130.6	128.5	128.7	130.1
30°	83.2	84.3	83.7	84.3	83.4
32.5°	48.0	49.0	48.6	49.0	49.1
35°	26.3	27.2	26.4	26.1	24.9
37.5°	13.0	13.0	13.3	12.3	11.7
40°	5.6	5.8	5.5	5.2	4.7
42.5°	2.8	2.8	3.0	2.5	2.5
45°	2.0	2.0	2.2	1.9	1.9
47.5°	1.7	1.7	1.9	1.6	1.6
50°	1.5	1.5	1.6	1.4	1.3
52.5°	1.3	1.3	1.4	1.3	1.2
55°	1.2	1.2	1.2	1.1	1.0
57.5°	1.0	1.0	1.0	1.0	0.9
60°	0.8	0.8	0.9	0.8	0.7
62.5°	0.7	0.7	0.7	0.7	0.6
65°	0.4	0.4	0.5	0.4	0.4
67.5°	0.1	0.1	0.4	0.0	0.0
70°	0.0	0.0	0.1	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)