

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: P402073

Luminaire Tested: **LA1MR022D010 EA1M22309030MMS1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2005-766-2)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LA1MR022D010 EA1M22309030MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

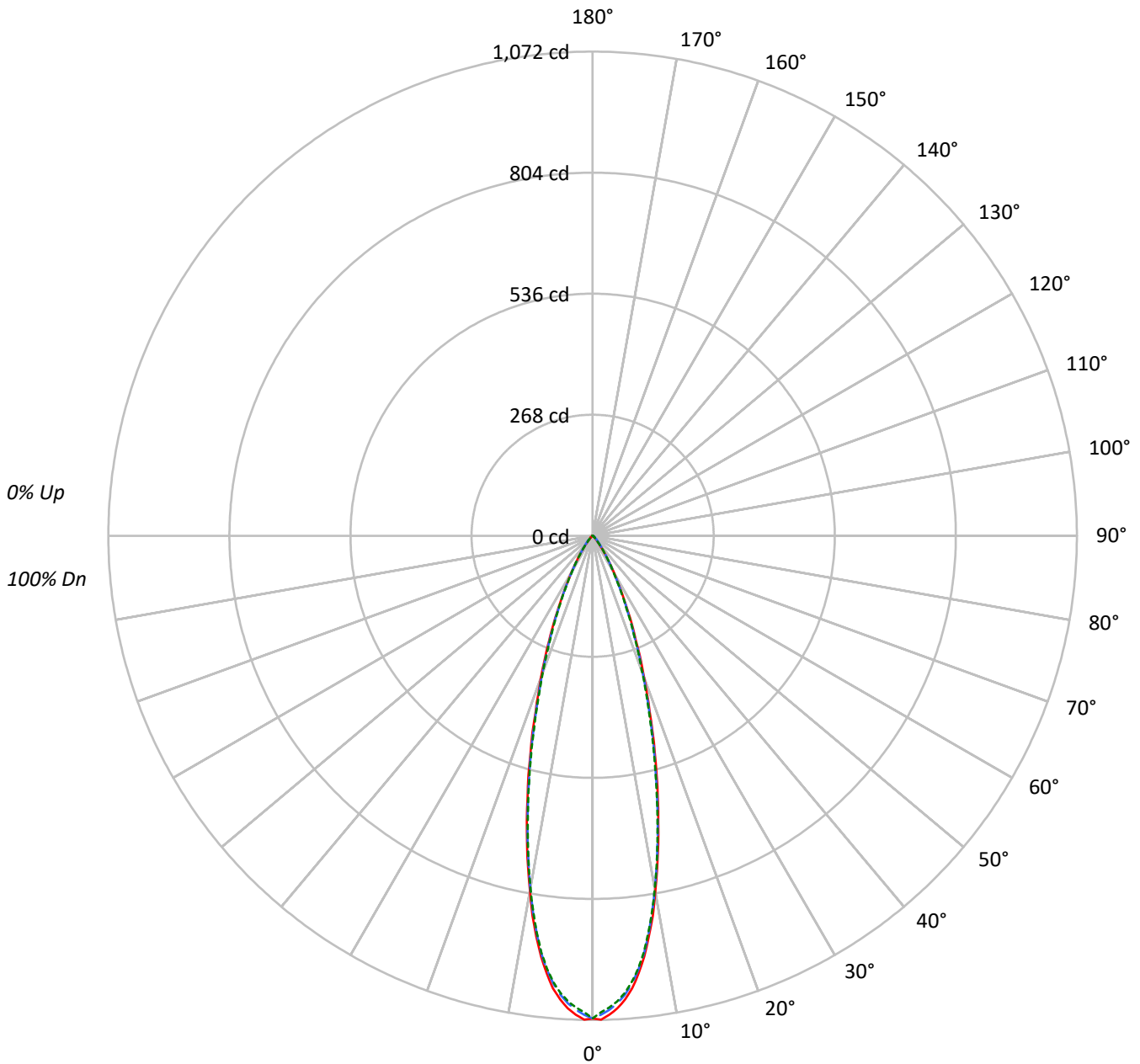
Lumens per Lamp: N/A
Luminaire Lumens: 364.3 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 5.7
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	105	103	102	101	100	99	98	97	95																			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																			
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87																			
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83																			
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79																			
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76																			
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73																			
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70																			
9	85	77	73	69	84	77	72	69	76	72	69	75	71	69	74	71	69	67																			
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	331330	331330	331330
5°	313053	309848	308821
10°	251701	249813	249529
15°	176066	173082	172343
20°	109856	107085	105864
25°	63553	61637	60851
30°	33827	32825	32181
35°	16197	16727	16387
40°	6799	9227	6960
45°	3463	5699	3683
50°	2267	3376	2460
55°	1513	2270	1784
60°	868	1426	1178
65°	367	1027	367
70°	0	453	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	24.4
10°-20°	148.1	40.7
20°-30°	85.2	23.4
30°-40°	29.6	8.1
40°-50°	8.4	2.3
50°-60°	3.2	0.9
60°-70°	0.9	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°	322.1	88.4
0°-40°	351.8	96.6
0°-60°	363.4	99.8
0°-90°	364.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	364.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1006	1000	996	998	992	89
15°	549	546	539	538	537	150
25°	186	184	180	179	178	87
35°	43	45	44	44	43	29
45°	8	9	13	9	8	7
55°	3	3	4	3	3	3
65°	0	1	1	1	0	1
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°	1068.8	1068.8	1068.8	1068.8	1068.8
1°	1071.6	1066.5	1060.9	1060.9	1055.3
2°	1061.4	1056.7	1050.7	1051.1	1045.1
3°	1047.9	1043.2	1037.2	1038.1	1032.5
4°	1029.2	1023.2	1019.0	1020.4	1015.3
5°	1006.0	999.9	995.7	997.6	992.4
6°	974.3	970.1	966.4	968.7	964.0
7°	938.9	934.2	931.4	933.3	929.6
8°	895.6	892.3	889.1	890.9	887.2
9°	851.3	846.2	842.9	844.3	841.6
10°	799.6	797.3	793.6	795.0	792.7
11°	749.8	749.8	742.8	740.5	741.9
12°	698.6	698.1	691.6	688.8	689.7
13°	646.9	646.4	639.9	637.6	638.0
14°	595.7	596.1	589.1	587.3	586.8
15°	548.6	546.3	539.3	537.9	537.0
16°	499.2	498.8	491.8	489.9	489.0
17°	455.0	452.7	445.7	443.8	442.4
18°	408.9	409.4	402.4	401.0	398.7
19°	369.8	368.8	362.3	360.9	358.6
20°	333.0	328.8	324.6	323.2	320.9
22.5°	251.0	248.7	243.1	241.7	241.2
25°	185.8	183.5	180.2	179.3	177.9
26°	162.5	163.0	158.8	157.9	156.9
27°	143.9	143.0	139.2	138.8	137.4
28°	123.9	124.8	120.6	120.2	119.2
29°	108.0	108.0	105.7	104.3	103.4
30°	94.5	94.1	91.7	90.8	89.9
32.5°	65.2	64.7	63.8	63.3	62.4
35°	42.8	44.7	44.2	44.2	43.3
37.5°	26.5	30.3	31.7	31.2	28.4
40°	16.8	19.6	22.8	21.0	17.2
42.5°	11.2	13.5	16.8	14.0	11.2
45°	7.9	9.3	13.0	9.3	8.4
47.5°	6.1	7.0	9.8	7.0	6.1
50°	4.7	5.6	7.0	5.6	5.1
52.5°	3.7	4.2	5.6	4.2	3.7
55°	2.8	3.3	4.2	3.3	3.3
57.5°	2.3	2.8	3.3	2.8	2.3
60°	1.4	1.9	2.3	1.9	1.9
62.5°	0.9	1.4	1.9	1.4	0.9
65°	0.5	0.9	1.4	0.9	0.5
67.5°	0.0	0.5	0.5	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
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°







70°	0.0	0.0	0.5	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)