

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: P402081

Luminaire Tested: **LA1MR022D010 EA1M22309040MMS1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402081
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 EA1M22309040MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

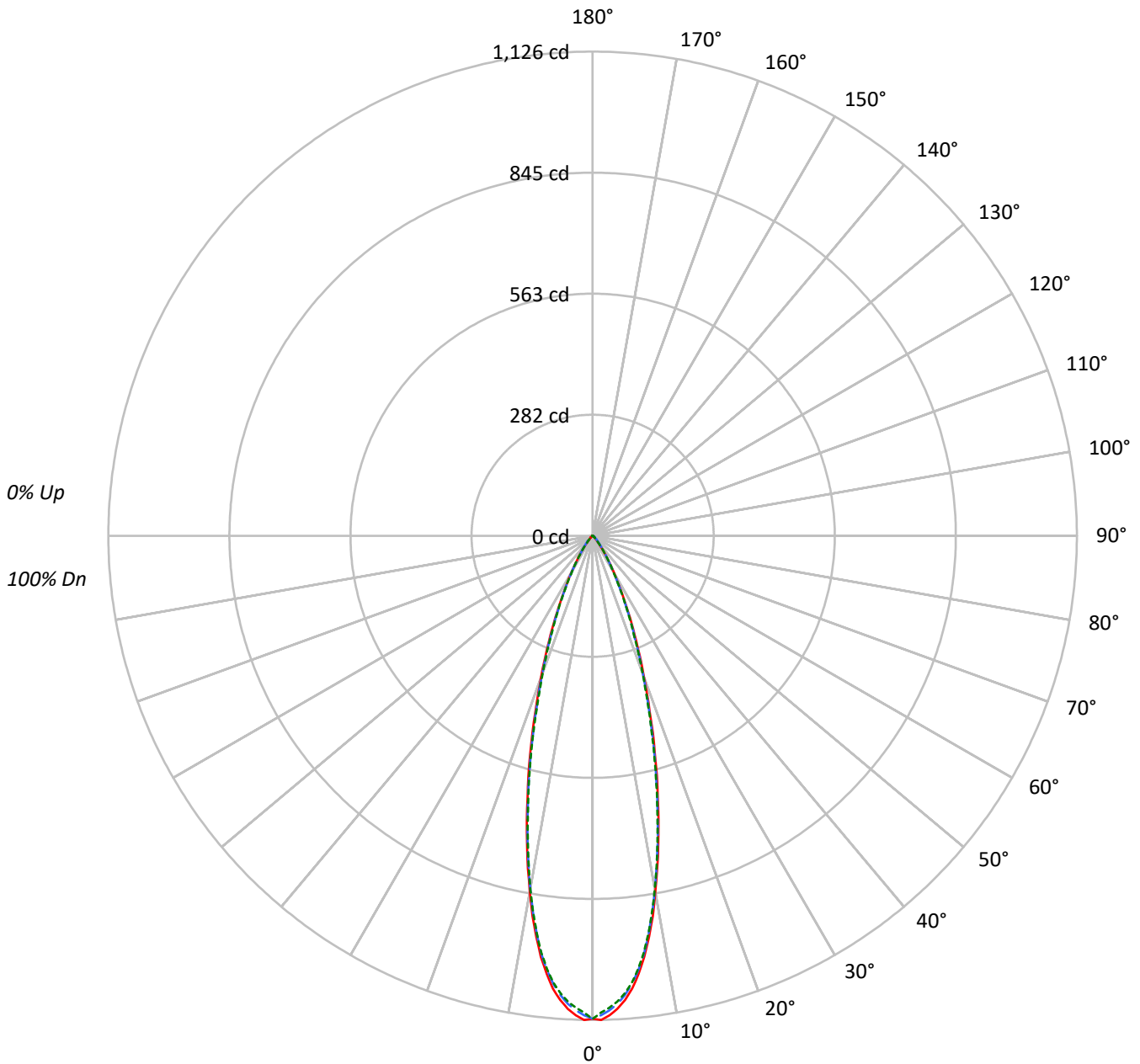
Lumens per Lamp: N/A
Luminaire Lumens: 382.9 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P402081

CATALOG NUMBER: LA1MR022D010 EA1M22309040MMS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P402081

CATALOG NUMBER: LA1MR022D010 EA1M22309040MMS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	348287	348287	348287
5°	329048	325687	324629
10°	264576	262593	262278
15°	185085	181939	181137
20°	115464	112561	111274
25°	66802	64818	63963
30°	35581	34507	33827
35°	17030	17598	17219
40°	7122	9712	7325
45°	3639	6006	3858
50°	2363	3521	2604
55°	1567	2378	1838
60°	930	1488	1240
65°	367	1100	367
70°	0	453	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P402081

CATALOG NUMBER: LA1MR022D010 EA1M22309040MMS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	24.4
10°-20°	155.7	40.7
20°-30°	89.6	23.4
30°-40°	31.2	8.1
40°-50°	8.8	2.3
50°-60°	3.4	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°	338.6	88.4
0°-40°	369.8	96.6
0°-60°	382.0	99.8
0°-90°	382.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	382.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1057	1051	1047	1049	1043	94
15°	577	574	567	565	564	157
25°	195	193	190	188	187	92
35°	45	47	46	46	46	30
45°	8	10	14	10	9	7
55°	3	3	4	3	3	3
65°	0	1	2	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P402081

CATALOG NUMBER: LA1MR022D010 EA1M22309040MMS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.5	1123.5	1123.5	1123.5	1123.5
1°	1126.4	1121.0	1115.2	1115.2	1109.3
2°	1115.7	1110.8	1104.4	1104.9	1098.5
3°	1101.5	1096.6	1090.2	1091.2	1085.3
4°	1081.9	1075.5	1071.1	1072.6	1067.2
5°	1057.4	1051.0	1046.6	1048.6	1043.2
6°	1024.1	1019.7	1015.8	1018.2	1013.3
7°	986.9	982.0	979.1	981.0	977.1
8°	941.4	938.0	934.5	936.5	932.6
9°	894.9	889.5	886.1	887.5	884.6
10°	840.5	838.1	834.2	835.6	833.2
11°	788.2	788.2	780.8	778.4	779.8
12°	734.3	733.8	727.0	724.0	725.0
13°	680.0	679.5	672.6	670.2	670.7
14°	626.1	626.6	619.3	617.3	616.8
15°	576.7	574.2	566.9	565.4	564.4
16°	524.8	524.3	517.0	515.0	514.0
17°	478.3	475.8	468.5	466.5	465.1
18°	429.8	430.3	423.0	421.5	419.0
19°	388.7	387.7	380.9	379.4	376.9
20°	350.0	345.6	341.2	339.7	337.3
22.5°	263.9	261.4	255.5	254.1	253.6
25°	195.3	192.9	189.5	188.5	187.0
26°	170.8	171.3	166.9	166.0	165.0
27°	151.3	150.3	146.4	145.9	144.4
28°	130.2	131.2	126.8	126.3	125.3
29°	113.6	113.6	111.1	109.7	108.7
30°	99.4	98.9	96.4	95.5	94.5
32.5°	68.5	68.0	67.1	66.6	65.6
35°	45.0	47.0	46.5	46.5	45.5
37.5°	27.9	31.8	33.3	32.8	29.9
40°	17.6	20.6	24.0	22.0	18.1
42.5°	11.7	14.2	17.6	14.7	11.7
45°	8.3	9.8	13.7	9.8	8.8
47.5°	6.4	7.3	10.3	7.3	6.4
50°	4.9	5.9	7.3	5.9	5.4
52.5°	3.9	4.4	5.9	4.4	3.9
55°	2.9	3.4	4.4	3.4	3.4
57.5°	2.4	2.9	3.4	2.9	2.4
60°	1.5	2.0	2.4	2.0	2.0
62.5°	1.0	1.5	2.0	1.5	1.0
65°	0.5	1.0	1.5	1.0	0.5
67.5°	0.0	0.5	0.5	0.0	0.0



TEST NUMBER: P402081

CATALOG NUMBER: LA1MR022D010 EA1M22309040MMS1MW

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



Report Generated By E9808895 / USPTCWHP6082093





— 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)