

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: P402077

Luminaire Tested: **LA1MR022D010 EA1M22309035MMS1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402077
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 EA1M22309035MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

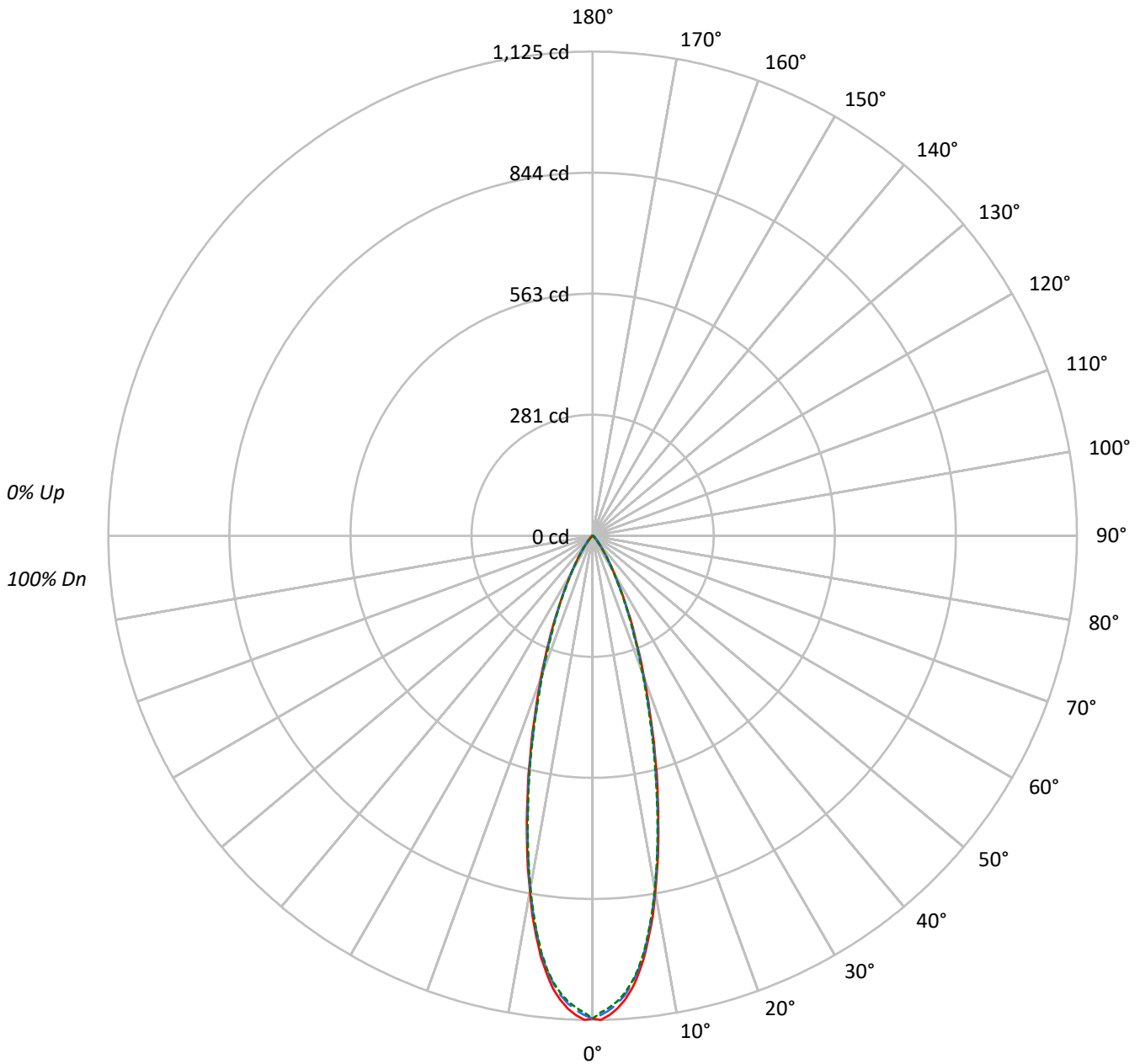
Lumens per Lamp: N/A
Luminaire Lumens: 382.4 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	347822	347822	347822
5°	328612	325252	324193
10°	264230	262247	261932
15°	184828	181683	180912
20°	115332	112429	111109
25°	66734	64716	63895
30°	35510	34471	33791
35°	17030	17560	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	24.4
10°-20°	155.5	40.7
20°-30°	89.5	23.4
30°-40°	31.1	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
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0°-30°	338.1	88.4
0°-40°	369.3	96.6
0°-60°	381.5	99.8
0°-90°	382.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	382.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1056	1050	1045	1047	1042	94
15°	576	574	566	565	564	157
25°	195	193	189	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.0	1122.0	1122.0	1122.0	1122.0
1°	1124.9	1119.6	1113.7	1113.7	1107.8
2°	1114.2	1109.3	1102.9	1103.4	1097.1
3°	1100.0	1095.1	1088.8	1089.7	1083.9
4°	1080.4	1074.1	1069.7	1071.2	1065.8
5°	1056.0	1049.6	1045.2	1047.2	1041.8
6°	1022.8	1018.4	1014.4	1016.9	1012.0
7°	985.6	980.7	977.8	979.7	975.8
8°	940.1	936.7	933.3	935.2	931.3
9°	893.7	888.3	884.9	886.4	883.4
10°	839.4	837.0	833.1	834.5	832.1
11°	787.1	787.1	779.8	777.3	778.8
12°	733.3	732.8	726.0	723.1	724.0
13°	679.1	678.6	671.7	669.3	669.8
14°	625.3	625.8	618.4	616.5	616.0
15°	575.9	573.5	566.1	564.7	563.7
16°	524.1	523.6	516.3	514.3	513.3
17°	477.6	475.2	467.9	465.9	464.4
18°	429.2	429.7	422.4	420.9	418.5
19°	388.2	387.2	380.4	378.9	376.4
20°	349.6	345.2	340.8	339.3	336.8
22.5°	263.5	261.1	255.2	253.7	253.2
25°	195.1	192.6	189.2	188.2	186.8
26°	170.6	171.1	166.7	165.7	164.8
27°	151.1	150.1	146.2	145.7	144.2
28°	130.0	131.0	126.6	126.1	125.2
29°	113.4	113.4	111.0	109.5	108.5
30°	99.2	98.8	96.3	95.3	94.4
32.5°	68.4	68.0	67.0	66.5	65.5
35°	45.0	46.9	46.4	46.4	45.5
37.5°	27.9	31.8	33.2	32.8	29.8
40°	17.6	20.5	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



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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)