

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: P402076

Luminaire Tested: **LA1MR022D010 EA1M22309030SC1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402076
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 EA1M22309030SC1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

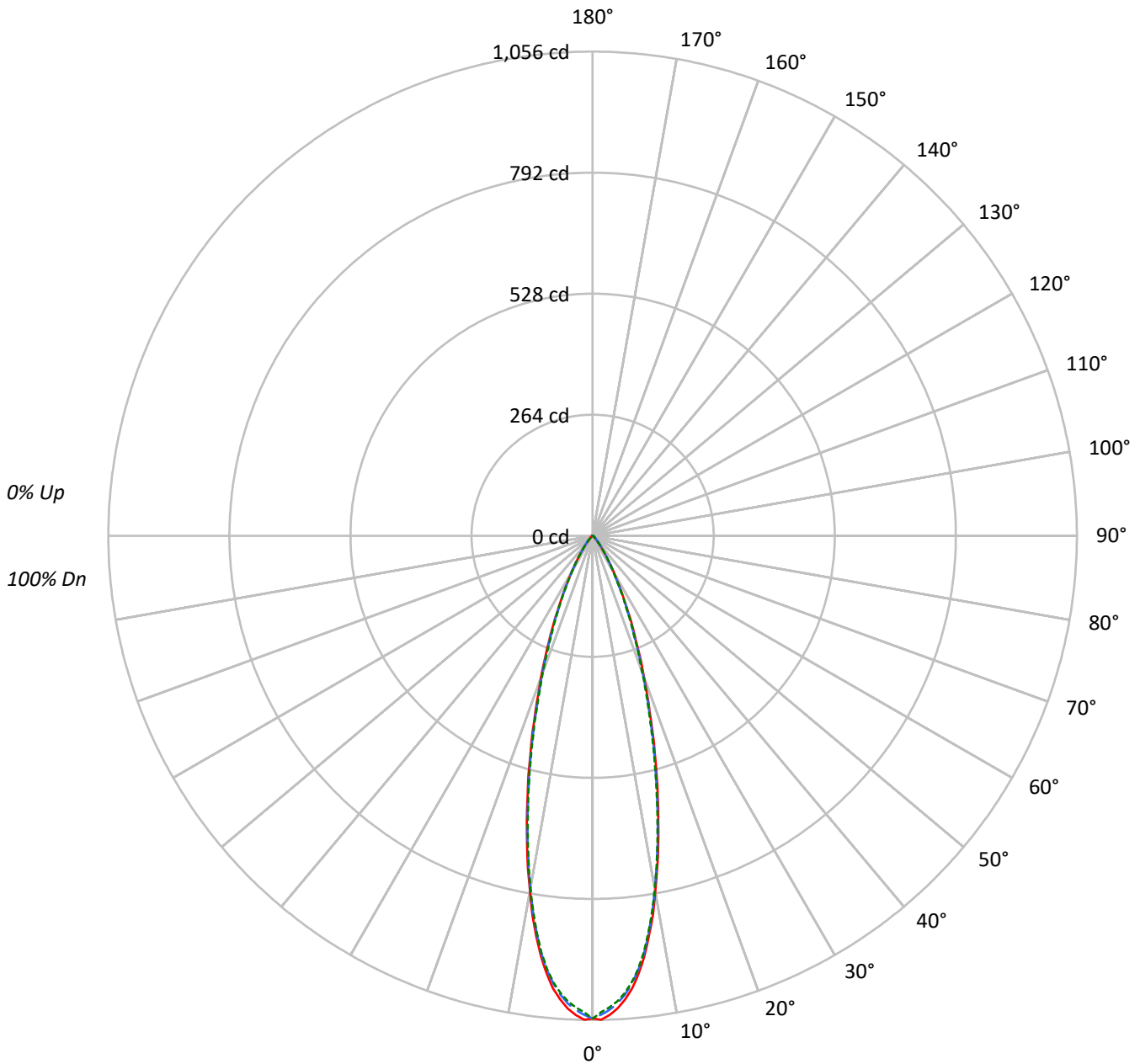
Lumens per Lamp: N/A
Luminaire Lumens: 358.9 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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				
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	75	72	87	80	75	72	79	75	72	78	74	71	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°	326432	326432	326432
5°	308416	305273	304278
10°	247987	246130	245815
15°	173467	170514	169776
20°	108239	105501	104280
25°	62629	60748	59961
30°	33326	32360	31715
35°	15970	16500	16159
40°	6677	9105	6880
45°	3420	5612	3639
50°	2218	3328	2411
55°	1513	2216	1730
60°	868	1426	1116
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°	87.4	24.4
10°-20°	145.9	40.7
20°-30°	84.0	23.4
30°-40°	29.2	8.1
40°-50°	8.3	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°	317.4	88.4
0°-40°	346.6	96.6
0°-60°	358.0	99.8
0°-90°	358.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	991	985	981	983	978	88
15°	540	538	531	530	529	148
25°	183	181	178	177	175	86
35°	42	44	44	44	43	28
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.0	1053.0	1053.0	1053.0	1053.0
1°	1055.8	1050.7	1045.2	1045.2	1039.7
2°	1045.7	1041.1	1035.1	1035.6	1029.6
3°	1032.4	1027.8	1021.8	1022.7	1017.2
4°	1014.0	1008.1	1003.9	1005.3	1000.3
5°	991.1	985.1	981.0	982.8	977.8
6°	959.9	955.8	952.1	954.4	949.8
7°	925.0	920.4	917.7	919.5	915.8
8°	882.3	879.1	875.9	877.7	874.1
9°	838.7	833.7	830.5	831.9	829.1
10°	787.8	785.5	781.9	783.2	780.9
11°	738.7	738.7	731.8	729.5	730.9
12°	688.3	687.8	681.4	678.6	679.5
13°	637.3	636.9	630.4	628.1	628.6
14°	586.8	587.3	580.4	578.6	578.1
15°	540.5	538.2	531.3	530.0	529.0
16°	491.9	491.4	484.5	482.7	481.8
17°	448.3	446.0	439.1	437.3	435.9
18°	402.9	403.3	396.4	395.1	392.8
19°	364.3	363.4	357.0	355.6	353.3
20°	328.1	323.9	319.8	318.4	316.1
22.5°	247.3	245.0	239.5	238.1	237.7
25°	183.1	180.8	177.6	176.7	175.3
26°	160.1	160.6	156.5	155.5	154.6
27°	141.8	140.9	137.2	136.7	135.4
28°	122.0	123.0	118.8	118.4	117.5
29°	106.4	106.4	104.2	102.8	101.9
30°	93.1	92.7	90.4	89.5	88.6
32.5°	64.2	63.8	62.9	62.4	61.5
35°	42.2	44.0	43.6	43.6	42.7
37.5°	26.2	29.8	31.2	30.7	28.0
40°	16.5	19.3	22.5	20.6	17.0
42.5°	11.0	13.3	16.5	13.8	11.0
45°	7.8	9.2	12.8	9.2	8.3
47.5°	6.0	6.9	9.6	6.9	6.0
50°	4.6	5.5	6.9	5.5	5.0
52.5°	3.7	4.1	5.5	4.1	3.7
55°	2.8	3.2	4.1	3.2	3.2
57.5°	2.3	2.8	3.2	2.8	2.3
60°	1.4	1.8	2.3	1.8	1.8
62.5°	0.9	1.4	1.8	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)