

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: P402071

Luminaire Tested: **LA1MR022D010 EA1M22309027SB1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402071
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 EA1M22309027SB1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

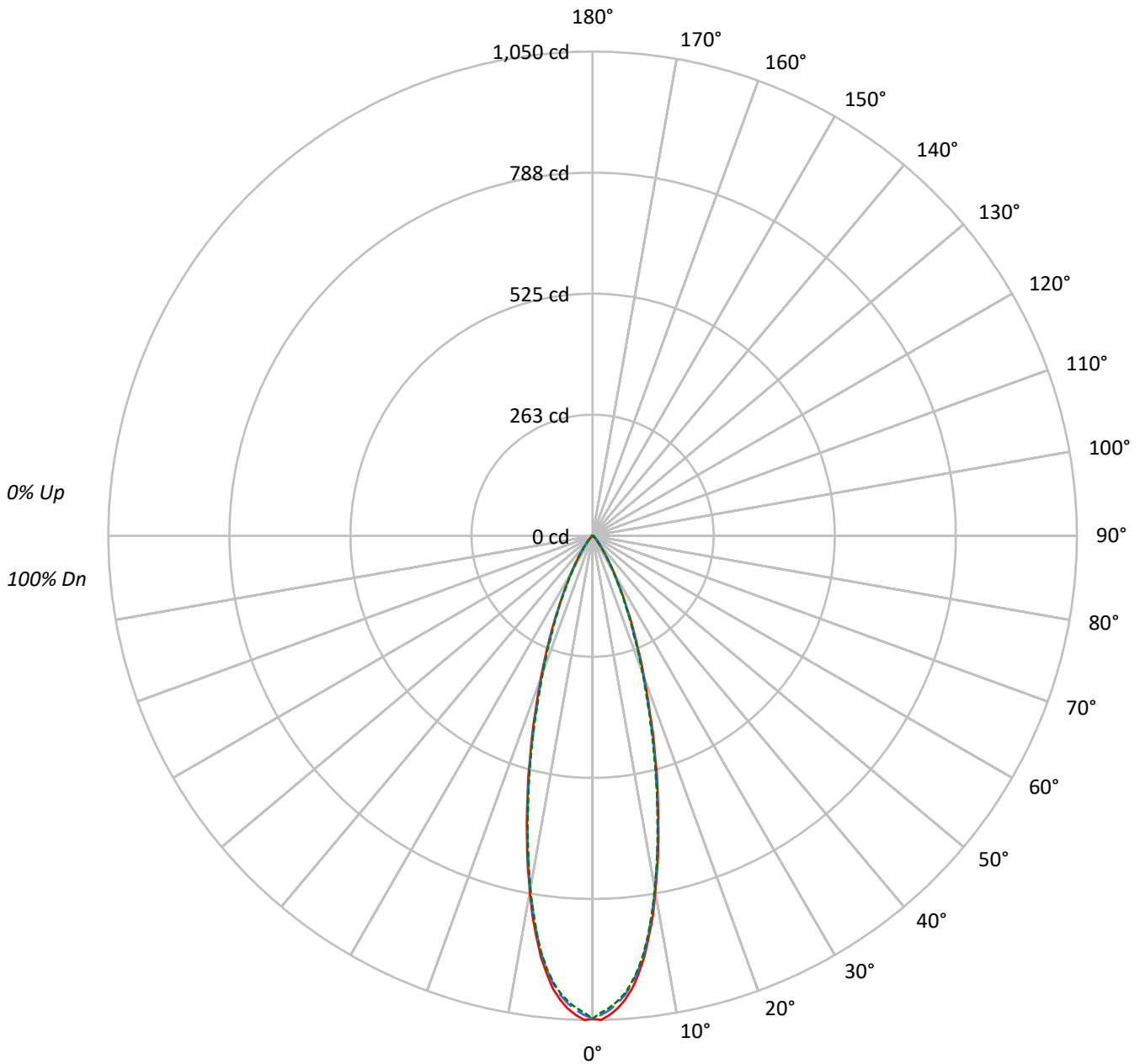
Lumens per Lamp: N/A
Luminaire Lumens: 357.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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			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°	324696	324696	324696
5°	306767	303655	302659
10°	246665	244808	244524
15°	172536	169615	168877
20°	107645	104940	103753
25°	62287	60406	59619
30°	33147	32181	31536
35°	15895	16424	16046
40°	6637	9065	6839
45°	3420	5612	3595
50°	2218	3279	2411
55°	1459	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°	87.0	24.4
10°-20°	145.2	40.7
20°-30°	83.5	23.4
30°-40°	29.1	8.1
40°-50°	8.2	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°	315.7	88.4
0°-40°	344.7	96.6
0°-60°	356.1	99.8
0°-90°	357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	986	980	976	978	973	88
15°	538	535	528	527	526	147
25°	182	180	177	176	174	85
35°	42	44	43	43	42	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.4	1047.4	1047.4	1047.4	1047.4
1°	1050.2	1045.1	1039.7	1039.7	1034.2
2°	1040.1	1035.6	1029.6	1030.1	1024.1
3°	1026.9	1022.3	1016.4	1017.3	1011.8
4°	1008.6	1002.7	998.6	1000.0	994.9
5°	985.8	979.9	975.8	977.6	972.6
6°	954.8	950.7	947.0	949.3	944.7
7°	920.1	915.5	912.8	914.6	911.0
8°	877.6	874.5	871.3	873.1	869.4
9°	834.3	829.3	826.1	827.4	824.7
10°	783.6	781.3	777.7	779.1	776.8
11°	734.8	734.8	727.9	725.7	727.0
12°	684.6	684.1	677.7	675.0	675.9
13°	633.9	633.5	627.1	624.8	625.3
14°	583.7	584.2	577.3	575.5	575.1
15°	537.6	535.4	528.5	527.1	526.2
16°	489.3	488.8	482.0	480.1	479.2
17°	445.9	443.6	436.8	434.9	433.6
18°	400.7	401.2	394.3	393.0	390.7
19°	362.4	361.5	355.1	353.7	351.4
20°	326.3	322.2	318.1	316.7	314.5
22.5°	246.0	243.7	238.2	236.9	236.4
25°	182.1	179.8	176.6	175.7	174.3
26°	159.3	159.7	155.6	154.7	153.8
27°	141.0	140.1	136.5	136.0	134.6
28°	121.4	122.3	118.2	117.7	116.8
29°	105.9	105.9	103.6	102.2	101.3
30°	92.6	92.2	89.9	89.0	88.1
32.5°	63.9	63.4	62.5	62.1	61.2
35°	42.0	43.8	43.4	43.4	42.4
37.5°	26.0	29.7	31.0	30.6	27.8
40°	16.4	19.2	22.4	20.5	16.9
42.5°	11.0	13.2	16.4	13.7	11.0
45°	7.8	9.1	12.8	9.1	8.2
47.5°	5.9	6.8	9.6	6.8	5.9
50°	4.6	5.5	6.8	5.5	5.0
52.5°	3.7	4.1	5.5	4.1	3.7
55°	2.7	3.2	4.1	3.2	3.2
57.5°	2.3	2.7	3.2	2.7	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)