

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: P401963

Luminaire Tested: **LA1MR102D010 EA1M102309030SB1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P401963
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: LA1MR102D010 EA1M102309030SB1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

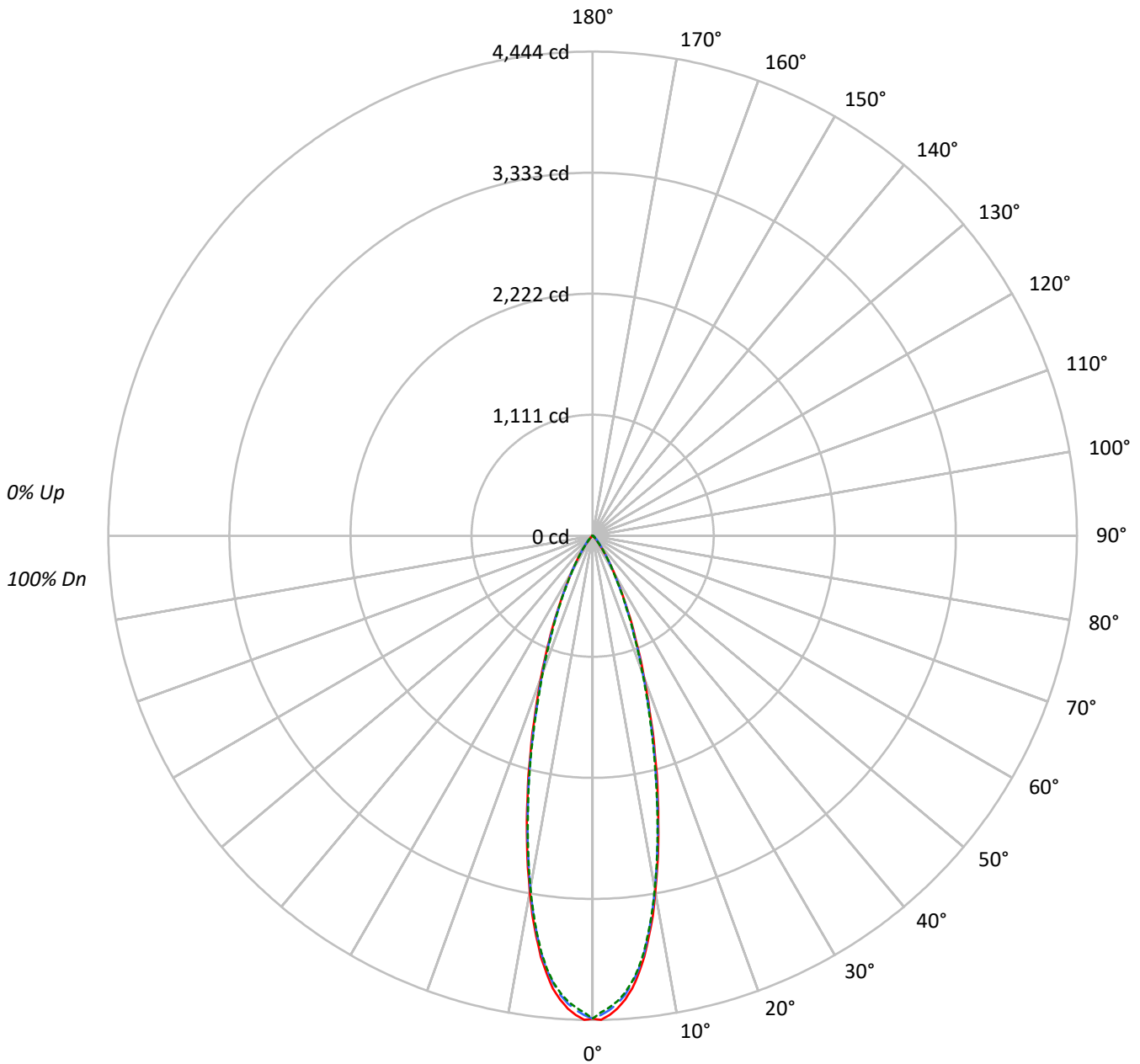
Lumens per Lamp: N/A
Luminaire Lumens: 1510.7 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
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								
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	76	72	87	80	75	72	79	75	72	78	74	72	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°	1373990	1373990	1373990
5°	1298112	1284887	1280686
10°	1043824	1035923	1034695
15°	730133	717744	714631
20°	455522	444074	438961
25°	263583	255647	252330
30°	140320	136203	133411
35°	67249	69444	67968
40°	28125	38283	28935
45°	14380	23718	15257
50°	9308	13986	10224
55°	6269	9404	7296
60°	3596	6014	4774
65°	1394	4254	1394
70°	0	1722	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.1	24.4
10°-20°	614.3	40.7
20°-30°	353.4	23.4
30°-40°	123.0	8.1
40°-50°	34.9	2.3
50°-60°	13.4	0.9
60°-70°	3.6	0.2
70°-80°	0.1	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°	1335.8	88.4
0°-40°	1458.7	96.6
0°-60°	1507.0	99.8
0°-90°	1510.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1510.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4432	4432	4432	4432	4432	
5°	4172	4146	4129	4137	4116	371
15°	2275	2265	2236	2231	2227	621
25°	771	761	747	744	738	361
35°	178	185	184	184	180	120
45°	33	39	54	39	35	28
55°	12	14	17	14	14	11
65°	2	4	6	4	2	2
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°	4432.2	4432.2	4432.2	4432.2	4432.2
1°	4443.8	4422.6	4399.4	4399.4	4376.2
2°	4401.3	4382.0	4356.9	4358.8	4333.7
3°	4345.3	4326.0	4300.9	4304.8	4281.6
4°	4268.1	4243.0	4225.6	4231.4	4210.1
5°	4171.5	4146.4	4129.0	4136.7	4115.5
6°	4040.2	4022.8	4007.4	4017.0	3997.7
7°	3893.4	3874.1	3862.5	3870.2	3854.8
8°	3713.8	3700.3	3686.8	3694.5	3679.0
9°	3530.3	3509.1	3495.6	3501.4	3489.8
10°	3316.0	3306.3	3290.9	3296.7	3287.0
11°	3109.3	3109.3	3080.4	3070.7	3076.5
12°	2896.9	2895.0	2867.9	2856.3	2860.2
13°	2682.5	2680.6	2653.5	2643.9	2645.8
14°	2470.1	2472.0	2443.0	2435.3	2433.4
15°	2275.0	2265.4	2236.4	2230.6	2226.7
16°	2070.3	2068.4	2039.4	2031.7	2027.8
17°	1886.8	1877.2	1848.2	1840.5	1834.7
18°	1695.6	1697.6	1668.6	1662.8	1653.2
19°	1533.4	1529.6	1502.5	1496.7	1487.1
20°	1380.8	1363.5	1346.1	1340.3	1330.6
22.5°	1040.9	1031.3	1008.1	1002.3	1000.4
25°	770.6	760.9	747.4	743.5	737.7
26°	674.0	675.9	658.6	654.7	650.8
27°	596.8	592.9	577.4	575.5	569.7
28°	513.7	517.6	500.2	498.3	494.4
29°	448.1	448.1	438.4	432.6	428.7
30°	392.0	390.1	380.5	376.6	372.7
32.5°	270.4	268.4	264.6	262.7	258.8
35°	177.7	185.4	183.5	183.5	179.6
37.5°	110.1	125.5	131.3	129.4	117.8
40°	69.5	81.1	94.6	86.9	71.5
42.5°	46.4	56.0	69.5	57.9	46.4
45°	32.8	38.6	54.1	38.6	34.8
47.5°	25.1	29.0	40.6	29.0	25.1
50°	19.3	23.2	29.0	23.2	21.2
52.5°	15.5	17.4	23.2	17.4	15.5
55°	11.6	13.5	17.4	13.5	13.5
57.5°	9.7	11.6	13.5	11.6	9.7
60°	5.8	7.7	9.7	7.7	7.7
62.5°	3.9	5.8	7.7	5.8	3.9
65°	1.9	3.9	5.8	3.9	1.9
67.5°	0.0	1.9	1.9	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	1.9	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)