

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: io LED

Report Number: P283586

Luminaire Tested: **LDA2B109030D010 EU2B10FL409030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109030D010 EU2B10FL409030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 768.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

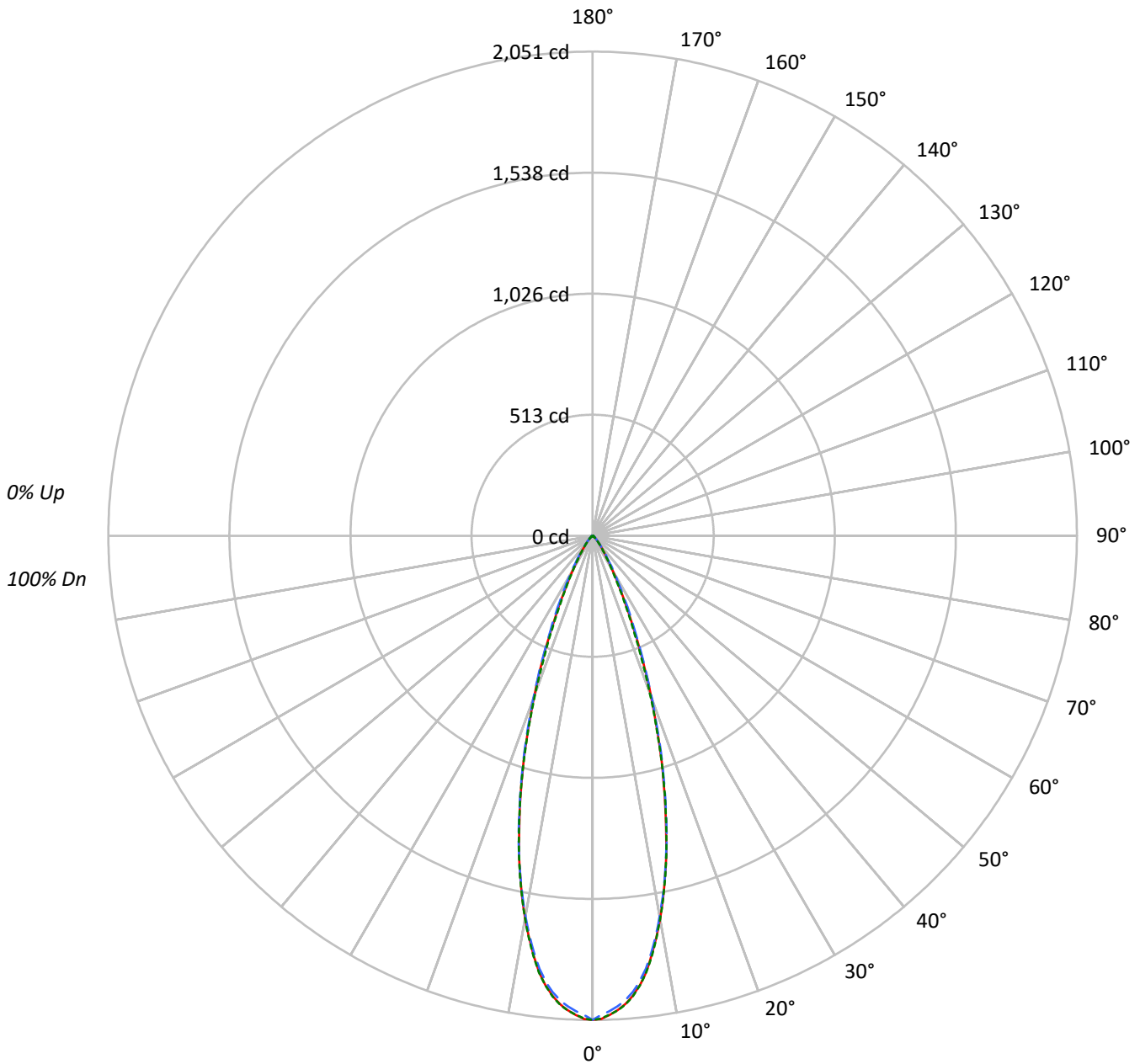
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283586

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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																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1011836	1011836	1011836
5°	968306	961075	969791
10°	824952	819792	825853
15°	608067	611999	610007
20°	379593	386576	371192
25°	196080	210397	186227
30°	93998	107727	89611
35°	48544	53724	45412
40°	27178	28595	25826
45°	16536	16536	15908
50°	8596	10592	8596
55°	4473	7053	4817
60°	5131	5131	5131
65°	5487	5487	5487
70°	6780	6203	6780
75°	6481	6481	6481
80°	6251	6251	6251
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	23.0
10°-20°	324.0	42.2
20°-30°	175.7	22.9
30°-40°	56.4	7.3
40°-50°	19.2	2.5
50°-60°	6.8	0.9
60°-70°	4.9	0.6
70°-80°	3.6	0.5
80°-90°	1.0	0.1
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°	676.1	88.0
0°-40°	732.5	95.4
0°-60°	758.5	98.8
0°-90°	768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2051	2051	2051	2051	2051	
5°	1955	1943	1941	1960	1958	177
15°	1190	1200	1198	1204	1194	323
25°	360	377	386	360	342	173
35°	81	84	89	81	75	54
45°	24	24	24	24	23	19
55°	5	6	8	6	6	6
65°	5	5	5	5	5	5
75°	3	3	3	3	3	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2050.9	2050.9	2050.9	2050.9	2050.9
1°	2047.4	2032.8	2030.6	2049.6	2045.3
2°	2031.1	2017.3	2015.1	2034.1	2030.2
3°	2013.0	2000.5	1996.2	2016.0	2013.4
4°	1988.8	1977.2	1973.3	1993.1	1991.0
5°	1955.2	1943.2	1940.6	1960.0	1958.2
6°	1913.9	1904.0	1899.2	1918.6	1915.2
7°	1862.2	1853.1	1847.9	1862.2	1863.9
8°	1794.9	1790.6	1784.6	1798.8	1798.8
9°	1723.4	1719.5	1713.1	1726.0	1726.0
10°	1646.7	1644.1	1636.4	1648.5	1648.5
11°	1562.7	1561.4	1555.8	1565.7	1565.7
12°	1474.4	1477.4	1472.2	1480.9	1477.8
13°	1386.1	1384.8	1385.2	1391.7	1386.9
14°	1286.1	1293.9	1295.2	1299.0	1291.7
15°	1190.5	1200.4	1198.2	1203.8	1194.3
16°	1092.7	1103.9	1103.4	1104.7	1095.7
17°	1001.3	1007.8	1008.2	1006.9	995.7
18°	903.9	913.0	913.0	910.8	897.5
19°	808.7	815.6	820.4	815.6	800.1
20°	723.0	727.7	736.3	724.3	707.0
21°	640.7	645.0	652.3	638.1	619.1
22°	561.8	567.4	574.3	558.0	538.1
23°	488.2	501.1	503.7	481.3	464.5
24°	420.5	435.2	439.5	416.6	399.0
25°	360.2	376.6	386.5	359.8	342.1
26°	308.1	324.0	336.1	309.4	292.6
27°	262.4	279.2	291.7	266.7	250.8
28°	223.2	239.6	252.5	229.2	214.1
29°	193.9	203.4	216.3	196.9	183.1
30°	165.0	175.4	189.1	169.3	157.3
32.5°	113.3	118.9	129.7	117.6	108.1
35°	80.6	84.0	89.2	81.0	75.4
37.5°	57.3	59.0	62.0	57.3	54.3
40°	42.2	43.1	44.4	41.8	40.1
42.5°	31.5	31.9	31.9	31.0	30.2
45°	23.7	24.1	23.7	23.7	22.8
47.5°	17.2	18.5	18.1	18.1	16.8
50°	11.2	13.8	13.8	13.4	11.2
52.5°	6.9	9.5	10.8	9.5	7.3
55°	5.2	6.5	8.2	6.5	5.6
57.5°	5.2	5.2	6.0	5.2	5.2
60°	5.2	5.2	5.2	5.2	5.2



TEST NUMBER: P283586

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.3	4.7	4.7
72.5°	4.3	4.3	3.9	4.3	3.9
75°	3.4	3.4	3.4	3.4	3.4
77.5°	2.6	2.6	2.6	2.6	2.6
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.3	1.3	1.3	1.7	1.3
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	5.2	5.2	5.2	5.2	5.2
65°	4.7	5.2	4.7	5.2	4.7



(END OF REPORT)