

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: P283594

Luminaire Tested: **LDA2B109035D010 EU2B10FL409035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283594
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: LDA2B109035D010 EU2B10FL409035 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 788.3 lumens
Efficiency: N/A
Efficacy: 78.8 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

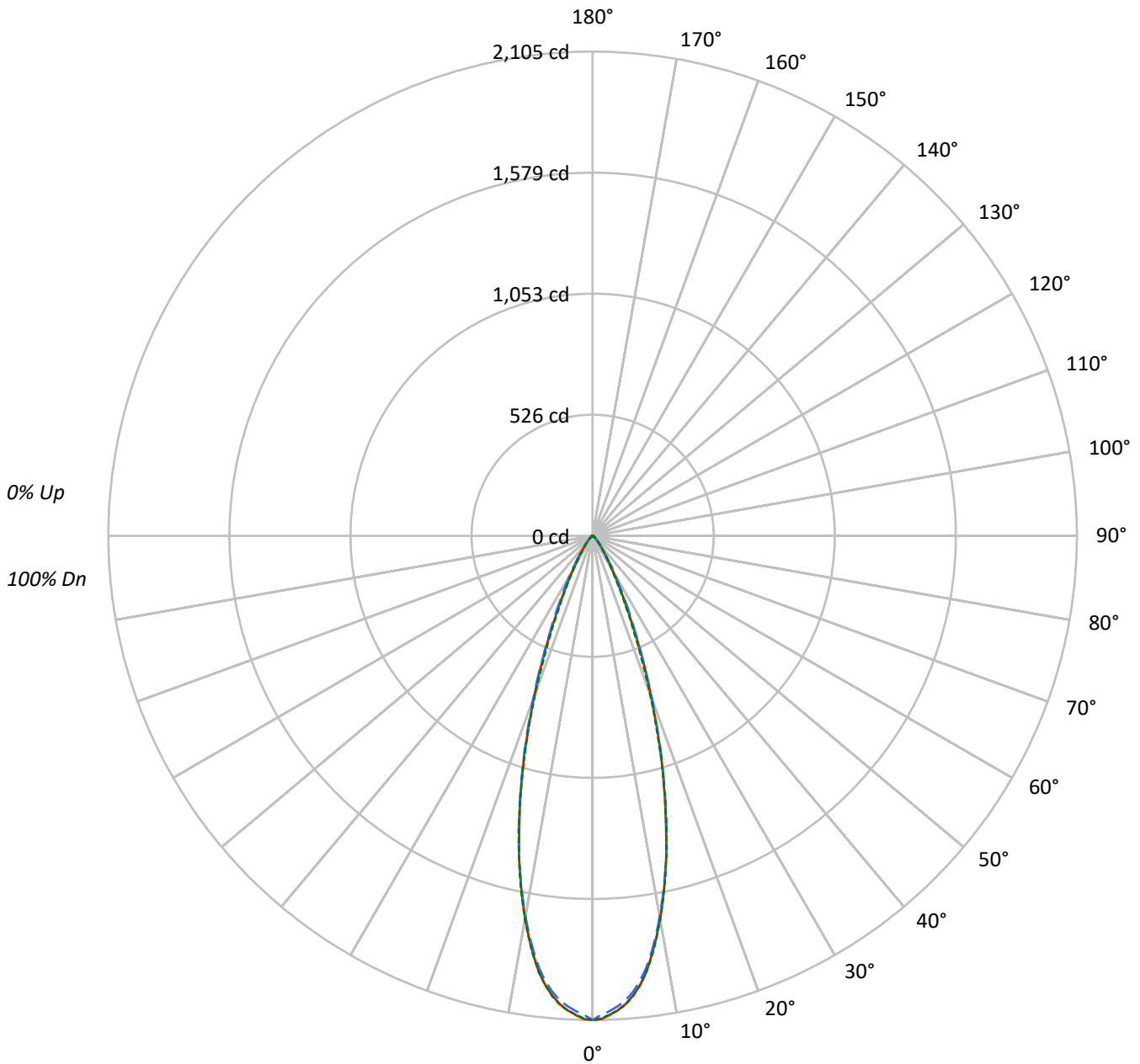
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283594

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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°	1038675	1038675	1038675
5°	994009	986531	995544
10°	846844	841534	847746
15°	624156	628242	626199
20°	389621	396866	381063
25°	201252	215949	191181
30°	96505	110633	91947
35°	49809	55169	46617
40°	27887	29368	26470
45°	16955	16955	16327
50°	8827	10899	8827
55°	4559	7225	4903
60°	5230	5230	5230
65°	5720	5720	5720
70°	7068	6347	7068
75°	6672	6672	6672
80°	6251	6251	6251
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	23.0
10°-20°	332.6	42.2
20°-30°	180.3	22.9
30°-40°	57.9	7.3
40°-50°	19.7	2.5
50°-60°	6.9	0.9
60°-70°	5.0	0.6
70°-80°	3.7	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°	694.0	88.0
0°-40°	751.9	95.4
0°-60°	778.5	98.8
0°-90°	788.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2007	1995	1992	2012	2010	181
15°	1222	1232	1230	1236	1226	331
25°	370	387	397	369	351	177
35°	83	86	92	83	77	56
45°	24	25	24	24	23	19
55°	5	7	8	7	6	6
65°	5	5	5	5	5	5
75°	4	4	4	4	4	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°	2105.3	2105.3	2105.3	2105.3	2105.3
1°	2101.7	2086.7	2084.5	2103.9	2099.5
2°	2084.9	2070.8	2068.5	2088.0	2084.0
3°	2066.3	2053.5	2049.1	2069.4	2066.8
4°	2041.6	2029.6	2025.6	2046.0	2043.8
5°	2007.1	1994.7	1992.0	2011.9	2010.2
6°	1964.6	1954.4	1949.6	1969.5	1965.9
7°	1911.5	1902.2	1896.9	1911.5	1913.3
8°	1842.5	1838.1	1831.9	1846.5	1846.5
9°	1769.1	1765.1	1758.5	1771.8	1771.8
10°	1690.4	1687.7	1679.8	1692.2	1692.2
11°	1604.2	1602.8	1597.1	1607.2	1607.2
12°	1513.5	1516.6	1511.3	1520.1	1517.0
13°	1422.8	1421.5	1421.9	1428.6	1423.7
14°	1320.2	1328.2	1329.5	1333.5	1326.0
15°	1222.0	1232.2	1230.0	1235.7	1226.0
16°	1121.6	1133.1	1132.7	1134.0	1124.7
17°	1027.9	1034.5	1034.9	1033.6	1022.1
18°	927.9	937.2	937.2	935.0	921.3
19°	830.2	837.2	842.1	837.2	821.3
20°	742.1	747.0	755.9	743.5	725.8
21°	657.7	662.1	669.6	655.0	635.6
22°	576.7	582.5	589.6	572.8	552.4
23°	501.1	514.4	517.0	494.0	476.8
24°	431.7	446.7	451.1	427.7	409.6
25°	369.7	386.6	396.7	369.3	351.2
26°	316.2	332.6	345.0	317.6	300.3
27°	269.3	286.6	299.4	273.8	257.4
28°	229.1	245.9	259.2	235.3	219.8
29°	199.0	208.8	222.0	202.1	188.0
30°	169.4	180.0	194.2	173.8	161.4
32.5°	116.3	122.1	133.1	120.7	111.0
35°	82.7	86.2	91.6	83.1	77.4
37.5°	58.8	60.6	63.7	58.8	55.7
40°	43.3	44.2	45.6	42.9	41.1
42.5°	32.3	32.7	32.7	31.8	31.0
45°	24.3	24.8	24.3	24.3	23.4
47.5°	17.7	19.0	18.6	18.6	17.2
50°	11.5	14.2	14.2	13.7	11.5
52.5°	7.1	9.7	11.1	9.7	7.5
55°	5.3	6.6	8.4	6.6	5.7
57.5°	5.3	5.3	6.2	5.3	5.3
60°	5.3	5.3	5.3	5.3	5.3



TEST NUMBER: P283594

CATALOG NUMBER: LDA2B109035D010 EU2B10FL409035 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.4	4.9	4.9
72.5°	4.4	4.4	4.0	4.4	4.0
75°	3.5	3.5	3.5	3.5	3.5
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.3	1.3	1.3	1.8	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°	5.3	5.3	5.3	5.3	5.3
65°	4.9	5.3	4.9	5.3	4.9



(END OF REPORT)