

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: P283593

Luminaire Tested: **LDA2B109035D010 EU2B10FL409035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283593
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 771.8 lumens
Efficiency: N/A
Efficacy: 77.2 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

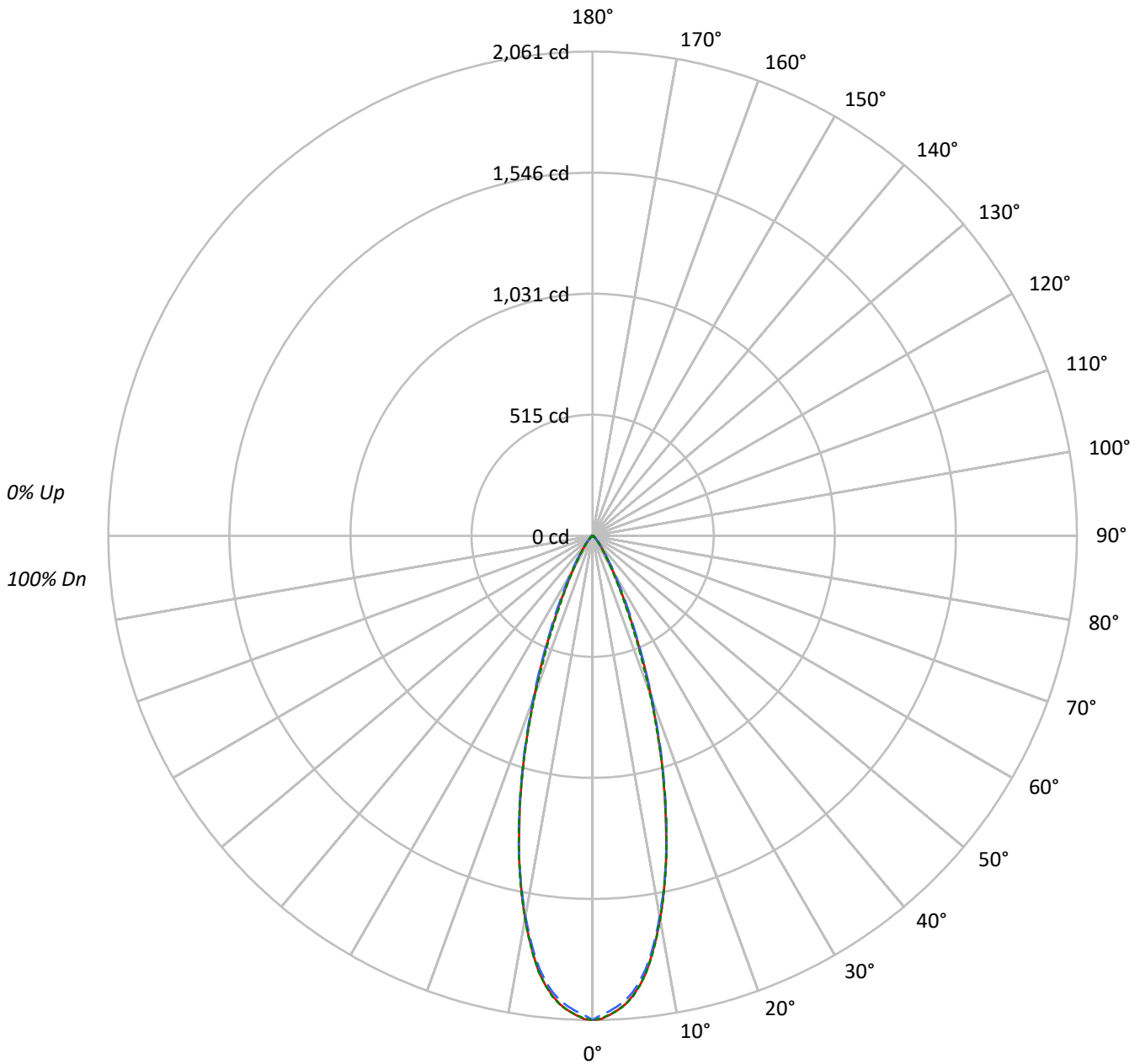
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1016819	1016819	1016819
5°	973110	965829	974645
10°	829060	823850	829911
15°	611080	615064	613072
20°	381483	388518	373030
25°	197060	211431	187153
30°	94454	108297	90010
35°	48785	53965	45653
40°	27307	28724	25955
45°	16606	16606	15978
50°	8673	10669	8673
55°	4473	7053	4817
60°	5131	5131	5131
65°	5603	5603	5603
70°	6924	6203	6924
75°	6672	6672	6672
80°	6251	6251	6251
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	23.0
10°-20°	325.6	42.2
20°-30°	176.5	22.9
30°-40°	56.7	7.3
40°-50°	19.3	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°	679.5	88.0
0°-40°	736.1	95.4
0°-60°	762.2	98.8
0°-90°	771.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	771.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	1965	1953	1950	1970	1968	178
15°	1196	1206	1204	1210	1200	324
25°	362	378	388	362	344	173
35°	81	84	90	81	76	55
45°	24	24	24	24	23	19
55°	5	6	8	6	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°	2061.0	2061.0	2061.0	2061.0	2061.0
1°	2057.6	2042.9	2040.7	2059.7	2055.4
2°	2041.1	2027.3	2025.1	2044.2	2040.3
3°	2022.9	2010.4	2006.1	2026.0	2023.4
4°	1998.7	1987.0	1983.1	2003.0	2000.9
5°	1964.9	1952.8	1950.2	1969.7	1968.0
6°	1923.4	1913.4	1908.6	1928.1	1924.7
7°	1871.4	1862.3	1857.1	1871.4	1873.1
8°	1803.8	1799.5	1793.5	1807.7	1807.7
9°	1732.0	1728.1	1721.6	1734.6	1734.6
10°	1654.9	1652.3	1644.5	1656.6	1656.6
11°	1570.5	1569.2	1563.5	1573.5	1573.5
12°	1481.7	1484.7	1479.5	1488.2	1485.2
13°	1392.9	1391.6	1392.1	1398.6	1393.8
14°	1292.5	1300.3	1301.6	1305.5	1298.1
15°	1196.4	1206.3	1204.2	1209.8	1200.3
16°	1098.1	1109.3	1108.9	1110.2	1101.1
17°	1006.3	1012.8	1013.2	1011.9	1000.6
18°	908.4	917.5	917.5	915.3	901.9
19°	812.7	819.7	824.4	819.7	804.1
20°	726.6	731.3	740.0	727.9	710.5
21°	643.9	648.2	655.6	641.3	622.2
22°	564.6	570.3	577.2	560.7	540.8
23°	490.6	503.6	506.2	483.7	466.8
24°	422.6	437.3	441.7	418.7	401.0
25°	362.0	378.4	388.4	361.5	343.8
26°	309.6	325.6	337.7	310.9	294.0
27°	263.7	280.6	293.1	268.0	252.0
28°	224.3	240.7	253.7	230.4	215.2
29°	194.8	204.4	217.4	197.9	184.0
30°	165.8	176.2	190.1	170.2	158.0
32.5°	113.9	119.5	130.3	118.2	108.7
35°	81.0	84.4	89.6	81.4	75.8
37.5°	57.6	59.3	62.4	57.6	54.6
40°	42.4	43.3	44.6	42.0	40.3
42.5°	31.6	32.0	32.0	31.2	30.3
45°	23.8	24.2	23.8	23.8	22.9
47.5°	17.3	18.6	18.2	18.2	16.9
50°	11.3	13.9	13.9	13.4	11.3
52.5°	6.9	9.5	10.8	9.5	7.4
55°	5.2	6.5	8.2	6.5	5.6
57.5°	5.2	5.2	6.1	5.2	5.2
60°	5.2	5.2	5.2	5.2	5.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.3	4.8	4.8
72.5°	4.3	4.3	3.9	4.3	3.9
75°	3.5	3.5	3.5	3.5	3.5
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°	4.8	5.2	4.8	5.2	4.8



(END OF REPORT)