

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: P283462

Luminaire Tested: **LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283462
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: LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 679.9 lumens
Efficiency: N/A
Efficacy: 97.1 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

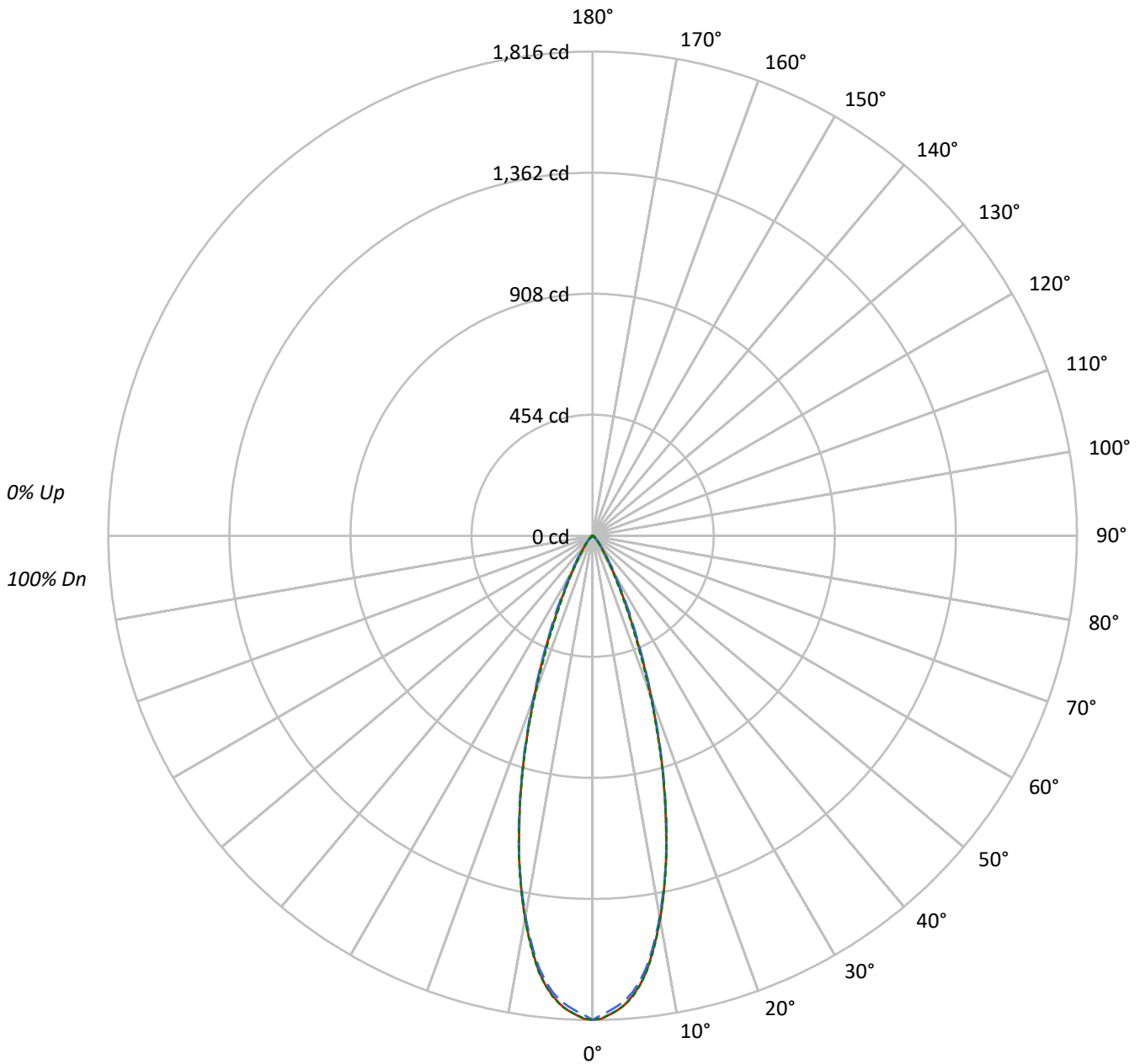
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283462

CATALOG NUMBER: LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283462

CATALOG NUMBER: LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MMS

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°	895698	895698	895698
5°	857222	850784	858510
10°	730318	725709	731069
15°	538245	541769	540033
20°	336016	342211	328613
25°	173598	186227	164834
30°	83231	95365	79300
35°	42943	47580	40172
40°	24087	25311	22863
45°	14652	14652	14094
50°	7599	9364	7599
55°	3957	6193	4301
60°	4539	4539	4539
65°	4903	4903	4903
70°	6058	5481	6058
75°	5909	5909	5909
80°	5398	5398	5398
85°	4529	4529	4529



TEST NUMBER: P283462

CATALOG NUMBER: LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	23.0
10°-20°	286.8	42.2
20°-30°	155.5	22.9
30°-40°	49.9	7.3
40°-50°	17.0	2.5
50°-60°	6.0	0.9
60°-70°	4.4	0.6
70°-80°	3.2	0.5
80°-90°	0.9	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°	598.5	88.0
0°-40°	648.4	95.4
0°-60°	671.4	98.8
0°-90°	679.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	679.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1731	1720	1718	1735	1734	157
15°	1054	1063	1061	1066	1057	286
25°	319	333	342	318	303	153
35°	71	74	79	72	67	48
45°	21	21	21	21	20	17
55°	5	6	7	6	5	5
65°	4	5	4	5	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283462

CATALOG NUMBER: LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.5	1815.5	1815.5	1815.5	1815.5
1°	1812.5	1799.5	1797.6	1814.4	1810.6
2°	1798.0	1785.8	1783.9	1800.7	1797.2
3°	1782.0	1770.9	1767.1	1784.6	1782.3
4°	1760.6	1750.3	1746.9	1764.4	1762.5
5°	1730.9	1720.2	1717.9	1735.0	1733.5
6°	1694.2	1685.5	1681.3	1698.4	1695.4
7°	1648.5	1640.5	1635.9	1648.5	1650.0
8°	1589.0	1585.2	1579.8	1592.4	1592.4
9°	1525.7	1522.2	1516.5	1527.9	1527.9
10°	1457.8	1455.5	1448.6	1459.3	1459.3
11°	1383.4	1382.2	1377.3	1386.1	1386.1
12°	1305.2	1307.9	1303.3	1310.9	1308.2
13°	1227.0	1225.9	1226.2	1232.0	1227.8
14°	1138.5	1145.4	1146.5	1150.0	1143.5
15°	1053.8	1062.6	1060.7	1065.7	1057.3
16°	967.3	977.2	976.8	977.9	969.9
17°	886.4	892.1	892.5	891.4	881.4
18°	800.2	808.2	808.2	806.3	794.5
19°	715.9	722.0	726.2	722.0	708.3
20°	640.0	644.2	651.8	641.2	625.9
21°	567.2	571.0	577.5	564.9	548.1
22°	497.4	502.3	508.4	493.9	476.4
23°	432.1	443.6	445.9	426.0	411.2
24°	372.3	385.2	389.0	368.8	353.2
25°	318.9	333.4	342.1	318.5	302.8
26°	272.7	286.8	297.5	273.9	259.0
27°	232.3	247.2	258.2	236.1	222.0
28°	197.6	212.1	223.5	202.9	189.6
29°	171.6	180.0	191.5	174.3	162.1
30°	146.1	155.2	167.4	149.9	139.2
32.5°	100.3	105.3	114.8	104.1	95.7
35°	71.3	74.4	79.0	71.7	66.7
37.5°	50.7	52.3	54.9	50.7	48.1
40°	37.4	38.1	39.3	37.0	35.5
42.5°	27.8	28.2	28.2	27.5	26.7
45°	21.0	21.4	21.0	21.0	20.2
47.5°	15.3	16.4	16.0	16.0	14.9
50°	9.9	12.2	12.2	11.8	9.9
52.5°	6.1	8.4	9.5	8.4	6.5
55°	4.6	5.7	7.2	5.7	5.0
57.5°	4.6	4.6	5.3	4.6	4.6
60°	4.6	4.6	4.6	4.6	4.6



TEST NUMBER: P283462

CATALOG NUMBER: LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	3.8	4.2	4.2
72.5°	3.8	3.8	3.4	3.8	3.4
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.2	4.6	4.2	4.6	4.2



(END OF REPORT)