

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: P281654

Luminaire Tested: **LDA2B108027D010 EU2B10SP158027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B108027D010 EU2B10SP158027 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1061.5 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

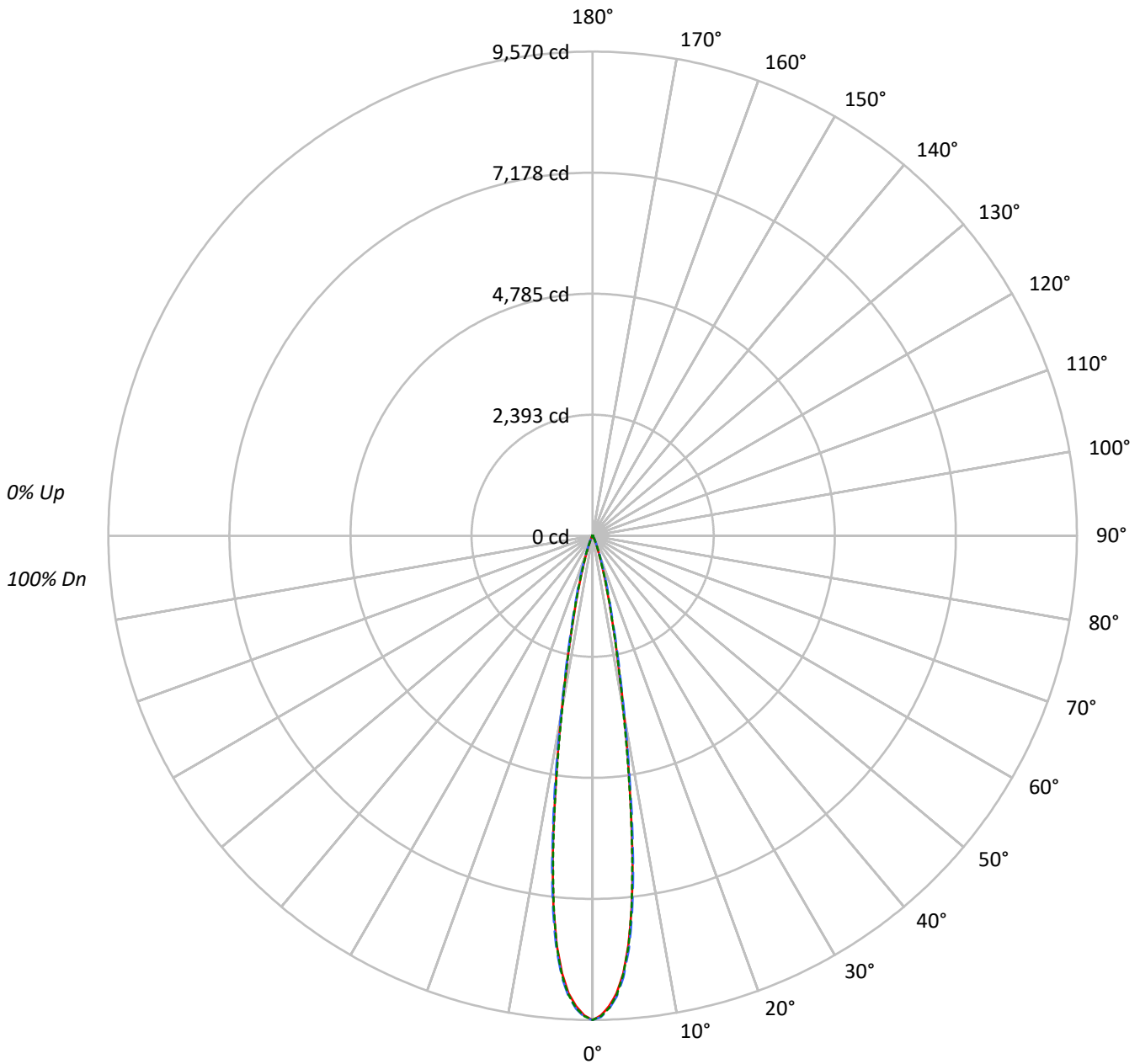
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281654

CATALOG NUMBER: LDA2B108027D010 EU2B10SP158027 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P281654

CATALOG NUMBER: LDA2B108027D010 EU2B10SP158027 2LBAPINSQ1MMS

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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96					96			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94					94			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93					93			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91					91			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89					89			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88					88			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87					87			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85					85			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84					84			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4721670	4721670	4721670
5°	4020608	4062506	4028235
10°	1775046	1815625	1733566
15°	538602	617771	547081
20°	161130	214893	180083
25°	62765	61840	65977
30°	27972	25294	26604
35°	5722	4999	4999
40°	0	386	1546
45°	4954	4117	7396
50°	0	1382	4528
55°	0	0	2064
60°	0	592	2368
65°	0	0	1401
70°	0	3462	6780
75°	0	0	0
80°	0	0	0
85°	0	3396	13586



TEST NUMBER: P281654

CATALOG NUMBER: LDA2B108027D010 EU2B10SP158027 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.4	58.4
10°-20°	354.3	33.4
20°-30°	67.3	6.3
30°-40°	12.2	1.2
40°-50°	3.1	0.3
50°-60°	2.4	0.2
60°-70°	0.4	0.0
70°-80°	0.5	0.1
80°-90°	0.8	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°	1042.0	98.2
0°-40°	1054.2	99.3
0°-60°	1059.8	99.8
0°-90°	1061.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1061.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9570	9570	9570	9570	9570	
5°	8118	8172	8203	8189	8134	616
15°	1054	1147	1210	1136	1071	335
25°	115	124	114	130	121	60
35°	10	12	8	10	8	13
45°	7	11	6	6	11	3
55°	0	1	0	1	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	1	1	1	2	0
90°	0	0	0	0	0	



TEST NUMBER: P281654

CATALOG NUMBER: LDA2B108027D010 EU2B10SP158027 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9570.4	9570.4	9570.4	9570.4	9570.4
1°	9479.9	9489.9	9511.2	9533.1	9498.8
2°	9302.5	9326.7	9356.9	9377.0	9339.7
3°	9054.1	9087.8	9119.7	9123.9	9089.0
4°	8670.2	8711.6	8745.3	8741.2	8697.4
5°	8118.4	8171.7	8203.0	8188.8	8133.8
6°	7389.2	7440.7	7480.9	7440.1	7366.2
7°	6480.8	6539.9	6582.5	6512.7	6422.2
8°	5428.1	5510.9	5553.4	5455.9	5363.0
9°	4430.9	4488.3	4531.5	4425.0	4330.4
10°	3543.2	3648.5	3624.2	3542.0	3460.4
11°	2786.8	2882.0	2886.1	2830.5	2750.7
12°	2181.8	2282.3	2307.7	2265.1	2194.2
13°	1724.0	1799.1	1841.1	1797.3	1729.9
14°	1372.1	1438.9	1492.7	1436.0	1368.5
15°	1054.5	1146.8	1209.5	1136.1	1071.1
16°	838.6	914.9	989.4	906.1	854.0
17°	644.1	712.1	789.0	713.3	670.7
18°	509.8	563.6	648.2	570.1	532.9
19°	399.2	440.0	518.7	450.1	419.9
20°	306.9	351.9	409.3	362.5	343.0
22.5°	185.7	210.5	227.1	212.9	202.9
25°	115.3	124.2	113.6	129.5	121.2
26°	100.5	107.0	104.7	115.3	105.3
27°	80.4	88.7	82.2	90.5	87.5
28°	73.3	83.4	70.4	80.4	75.7
29°	51.5	55.6	50.3	53.8	53.8
30°	49.1	50.3	44.4	48.5	46.7
32.5°	38.4	36.1	29.6	31.3	30.2
35°	9.5	11.8	8.3	10.1	8.3
37.5°	14.2	13.0	15.4	14.8	14.2
40°	0.0	0.6	0.6	0.6	2.4
42.5°	10.6	6.5	5.9	4.1	7.1
45°	7.1	11.2	5.9	6.5	10.6
47.5°	0.0	0.6	0.0	1.2	1.2
50°	0.0	1.2	1.8	2.4	5.9
52.5°	1.2	7.1	3.5	6.5	9.5
55°	0.0	0.6	0.0	0.6	2.4
57.5°	2.4	1.2	2.4	2.4	10.6
60°	0.0	1.2	0.6	0.6	2.4
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.2
67.5°	0.0	0.6	0.0	0.0	0.0



TEST NUMBER: P281654

CATALOG NUMBER: LDA2B108027D010 EU2B10SP158027 2LBAPINSQ1MMS

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	0.6	0.0	0.0
80°	0.0	0.6	0.0	0.0	0.0
82.5°	0.0	0.6	1.2	1.8	1.2
85°	0.0	0.6	0.6	0.6	2.4
87.5°	0.0	1.2	1.8	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







70°	0.0	1.8	2.4	0.0	4.7
72.5°	0.0	3.0	0.6	0.6	0.0



(END OF REPORT)