

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: P283560

Luminaire Tested: **LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283560
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: LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 875.1 lumens
Efficiency: N/A
Efficacy: 87.5 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

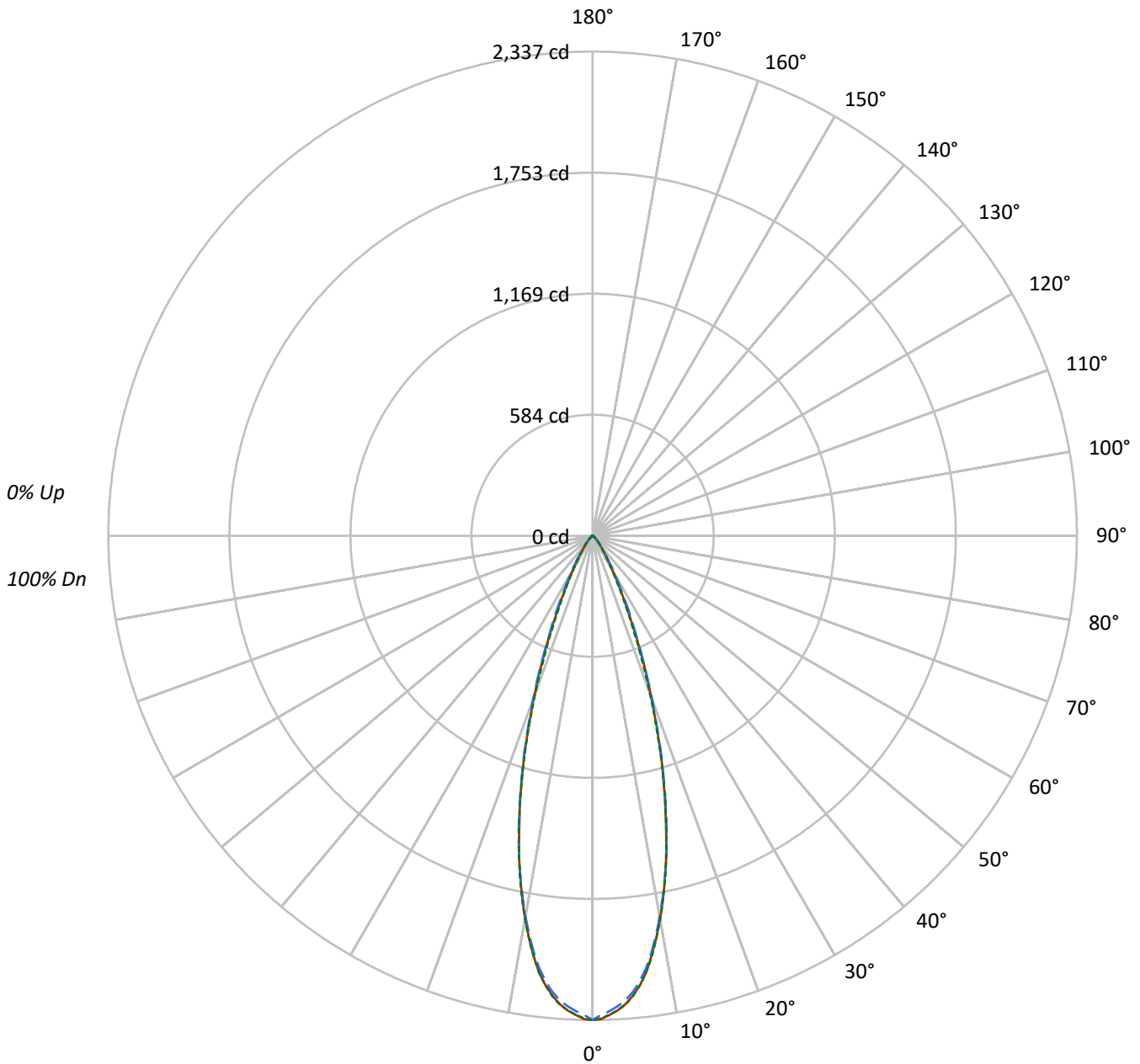
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283560

CATALOG NUMBER: LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P283560

CATALOG NUMBER: LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MB

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°	1153036	1153036	1153036
5°	1103458	1095188	1105142
10°	940125	934214	941077
15°	692905	697399	695152
20°	432568	440548	423012
25°	223462	239738	212193
30°	107101	122767	102088
35°	55290	61192	51736
40°	30978	32588	29433
45°	18838	18838	18141
50°	9824	12050	9824
55°	5075	7999	5505
60°	5822	5822	5822
65°	6304	6304	6304
70°	7789	7068	7789
75°	7434	7434	7434
80°	7103	7103	7103
85°	5661	5661	5661



TEST NUMBER: P283560

CATALOG NUMBER: LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	23.0
10°-20°	369.2	42.2
20°-30°	200.2	22.9
30°-40°	64.3	7.3
40°-50°	21.9	2.5
50°-60°	7.7	0.9
60°-70°	5.6	0.6
70°-80°	4.1	0.5
80°-90°	1.2	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°	770.5	88.0
0°-40°	834.7	95.4
0°-60°	864.3	98.8
0°-90°	875.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	875.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2337	2337	2337	2337	2337	
5°	2228	2214	2211	2234	2232	201
15°	1357	1368	1365	1372	1361	368
25°	410	429	440	410	390	197
35°	92	96	102	92	86	62
45°	27	28	27	27	26	21
55°	6	7	9	7	6	6
65°	5	6	5	6	5	6
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283560

CATALOG NUMBER: LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2337.1	2337.1	2337.1	2337.1	2337.1
1°	2333.2	2316.5	2314.0	2335.6	2330.7
2°	2314.5	2298.8	2296.3	2317.9	2313.5
3°	2293.9	2279.7	2274.7	2297.3	2294.4
4°	2266.4	2253.1	2248.7	2271.3	2268.9
5°	2228.1	2214.4	2211.4	2233.5	2231.5
6°	2181.0	2169.7	2164.3	2186.4	2182.4
7°	2122.0	2111.7	2105.8	2122.0	2124.0
8°	2045.5	2040.5	2033.7	2049.9	2049.9
9°	1963.9	1959.5	1952.2	1966.9	1966.9
10°	1876.6	1873.6	1864.8	1878.5	1878.5
11°	1780.8	1779.3	1773.0	1784.2	1784.2
12°	1680.2	1683.6	1677.7	1687.5	1684.1
13°	1579.5	1578.0	1578.5	1585.9	1580.5
14°	1465.6	1474.4	1475.9	1480.3	1472.0
15°	1356.6	1367.9	1365.4	1371.8	1361.0
16°	1245.1	1257.9	1257.4	1258.9	1248.6
17°	1141.1	1148.4	1148.9	1147.4	1134.7
18°	1030.1	1040.4	1040.4	1037.9	1022.7
19°	921.6	929.4	934.8	929.4	911.8
20°	823.9	829.3	839.1	825.3	805.7
21°	730.1	735.0	743.4	727.2	705.5
22°	640.2	646.6	654.5	635.8	613.2
23°	556.3	571.0	574.0	548.4	529.3
24°	479.2	495.9	500.8	474.8	454.7
25°	410.5	429.1	440.4	410.0	389.8
26°	351.1	369.2	383.0	352.5	333.4
27°	299.0	318.2	332.4	303.9	285.8
28°	254.3	273.0	287.7	261.2	244.0
29°	220.9	231.7	246.5	224.4	208.7
30°	188.0	199.8	215.5	193.0	179.2
32.5°	129.1	135.5	147.8	134.0	123.2
35°	91.8	95.7	101.6	92.3	85.9
37.5°	65.3	67.3	70.7	65.3	61.9
40°	48.1	49.1	50.6	47.6	45.7
42.5°	35.8	36.3	36.3	35.4	34.4
45°	27.0	27.5	27.0	27.0	26.0
47.5°	19.6	21.1	20.6	20.6	19.1
50°	12.8	15.7	15.7	15.2	12.8
52.5°	7.9	10.8	12.3	10.8	8.3
55°	5.9	7.4	9.3	7.4	6.4
57.5°	5.9	5.9	6.9	5.9	5.9
60°	5.9	5.9	5.9	5.9	5.9



TEST NUMBER: P283560

CATALOG NUMBER: LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	4.9	5.4	5.4
72.5°	4.9	4.9	4.4	4.9	4.4
75°	3.9	3.9	3.9	3.9	3.9
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.5	1.5	1.5	2.0	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	5.9	5.9	5.9	5.9	5.9
65°	5.4	5.9	5.4	5.9	5.4



(END OF REPORT)