

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: P224398

Luminaire Tested: **LD2B10D010 EU2B10FL409050 2LBDSQC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B10D010 EU2B10FL409050 2LBDSQC*MW
Description: 1000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 899.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

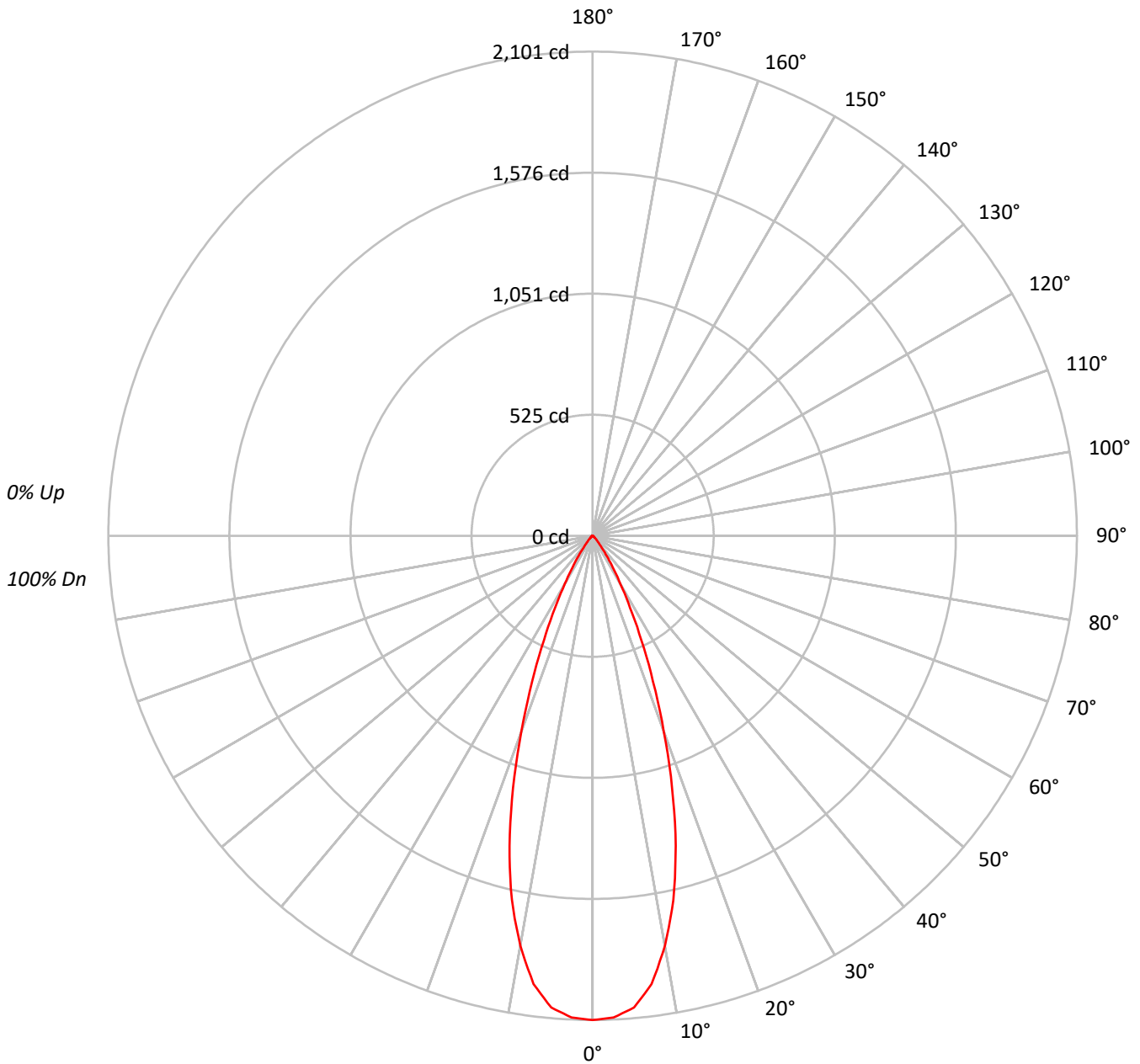
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224398

CATALOG NUMBER: LD2B10D010 EU2B10FL409050 2LBDSQC*MW

Luminous Intensity Polar Plot





TEST NUMBER: P224398

CATALOG NUMBER: LD2B10D010 EU2B10FL409050 2LBDSQC*MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	813930
5°	799075
10°	710338
15°	558687
20°	371768
25°	213438
30°	107792
35°	50738
40°	20428
45°	10134
50°	5544
55°	3917
60°	3564
65°	2108
70°	2605
75°	1796
80°	2677
85°	0



TEST NUMBER: P224398

CATALOG NUMBER: LD2B10D010 EU2B10FL409050 2LBDSQC*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	20.9
10°-20°	377.4	42.0
20°-30°	234.8	26.1
30°-40°	72.2	8.0
40°-50°	15.9	1.8
50°-60°	5.6	0.6
60°-70°	2.9	0.3
70°-80°	1.7	0.2
80°-90°	0.5	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°	800.4	89.0
0°-40°	872.6	97.0
0°-60°	894.1	99.4
0°-90°	899.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	899.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2101	
5°	2055	188
15°	1393	377
25°	499	235
35°	107	72
45°	18	16
55°	6	6
65°	2	3
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P224398

CATALOG NUMBER: LD2B10D010 EU2B10FL409050 2LBDSQC*MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	2101.3
2.5°	2092.0
5°	2055.1
7.5°	1961.7
10°	1806.0
12.5°	1619.2
15°	1393.2
17.5°	1146.4
20°	901.9
22.5°	683.9
25°	499.4
27.5°	351.7
30°	241.0
32.5°	162.6
35°	107.3
37.5°	64.6
40°	40.4
42.5°	27.7
45°	18.5
47.5°	12.7
50°	9.2
52.5°	8.1
55°	5.8
57.5°	4.6
60°	4.6
62.5°	3.5
65°	2.3
67.5°	2.3
70°	2.3
72.5°	2.3
75°	1.2
77.5°	1.2
80°	1.2
82.5°	1.2
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)