

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: P224663

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B10D010 EU2B10FL409050 2LBDLC*MW
Description: 1000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 833.9 lumens
Efficiency: N/A
Efficacy: 81.0 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

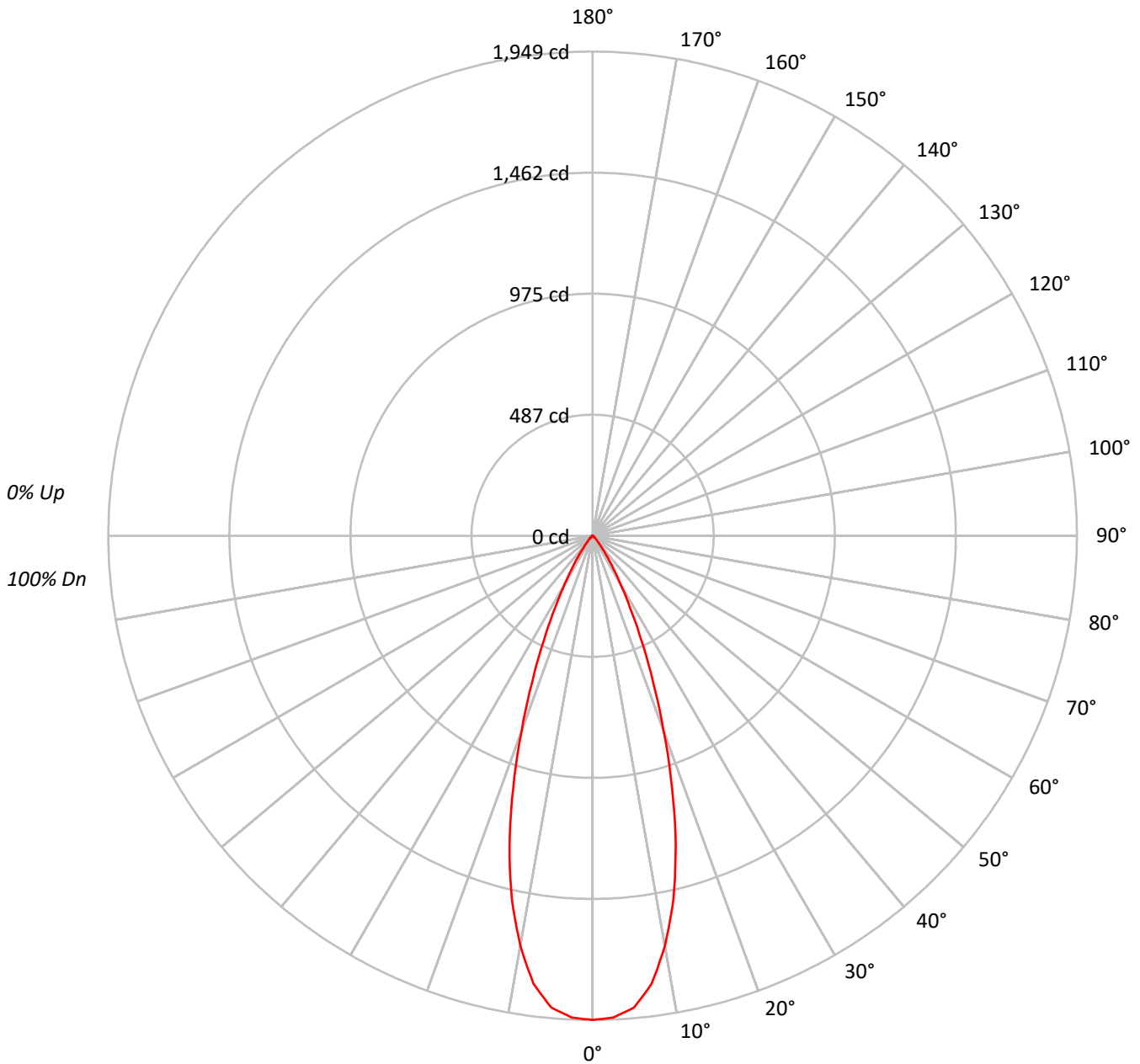
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224663

CATALOG NUMBER: LD2B10D010 EU2B10FL409050 2LBDLC*MW

Luminous Intensity Polar Plot





TEST NUMBER: P224663

CATALOG NUMBER: LD2B10D010 EU2B10FL409050 2LBDLC*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			
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	94	92	91			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75			
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	754937
5°	741179
10°	658892
15°	518185
20°	344809
25°	197967
30°	100009
35°	47050
40°	18911
45°	9367
50°	5182
55°	3579
60°	3331
65°	1925
70°	2378
75°	1646
80°	2454
85°	0



TEST NUMBER: P224663

CATALOG NUMBER: LD2B10D010 EU2B10FL409050 2LBDLC*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	20.9
10°-20°	350.0	42.0
20°-30°	217.8	26.1
30°-40°	66.9	8.0
40°-50°	14.7	1.8
50°-60°	5.2	0.6
60°-70°	2.6	0.3
70°-80°	1.6	0.2
80°-90°	0.4	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°	742.4	89.0
0°-40°	809.3	97.1
0°-60°	829.3	99.4
0°-90°	833.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1949	
5°	1906	175
15°	1292	350
25°	463	218
35°	100	67
45°	17	15
55°	5	5
65°	2	3
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P224663

CATALOG NUMBER: LD2B10D010 EU2B10FL409050 2LBDLC*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1949.0
2.5°	1940.4
5°	1906.2
7.5°	1819.6
10°	1675.2
12.5°	1501.9
15°	1292.2
17.5°	1063.3
20°	836.5
22.5°	634.3
25°	463.2
27.5°	326.3
30°	223.6
32.5°	150.8
35°	99.5
37.5°	59.9
40°	37.4
42.5°	25.7
45°	17.1
47.5°	11.8
50°	8.6
52.5°	7.5
55°	5.3
57.5°	4.3
60°	4.3
62.5°	3.2
65°	2.1
67.5°	2.1
70°	2.1
72.5°	2.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)