

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: P#

Luminaire Tested: **LD2B20D010 EU2B2010NFL258040 2LBPIN**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14816)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B2010NFL258040 2LBPIN
Description: 2000 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
ROUND PINHOLE BLACK OCULUS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1536.1 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

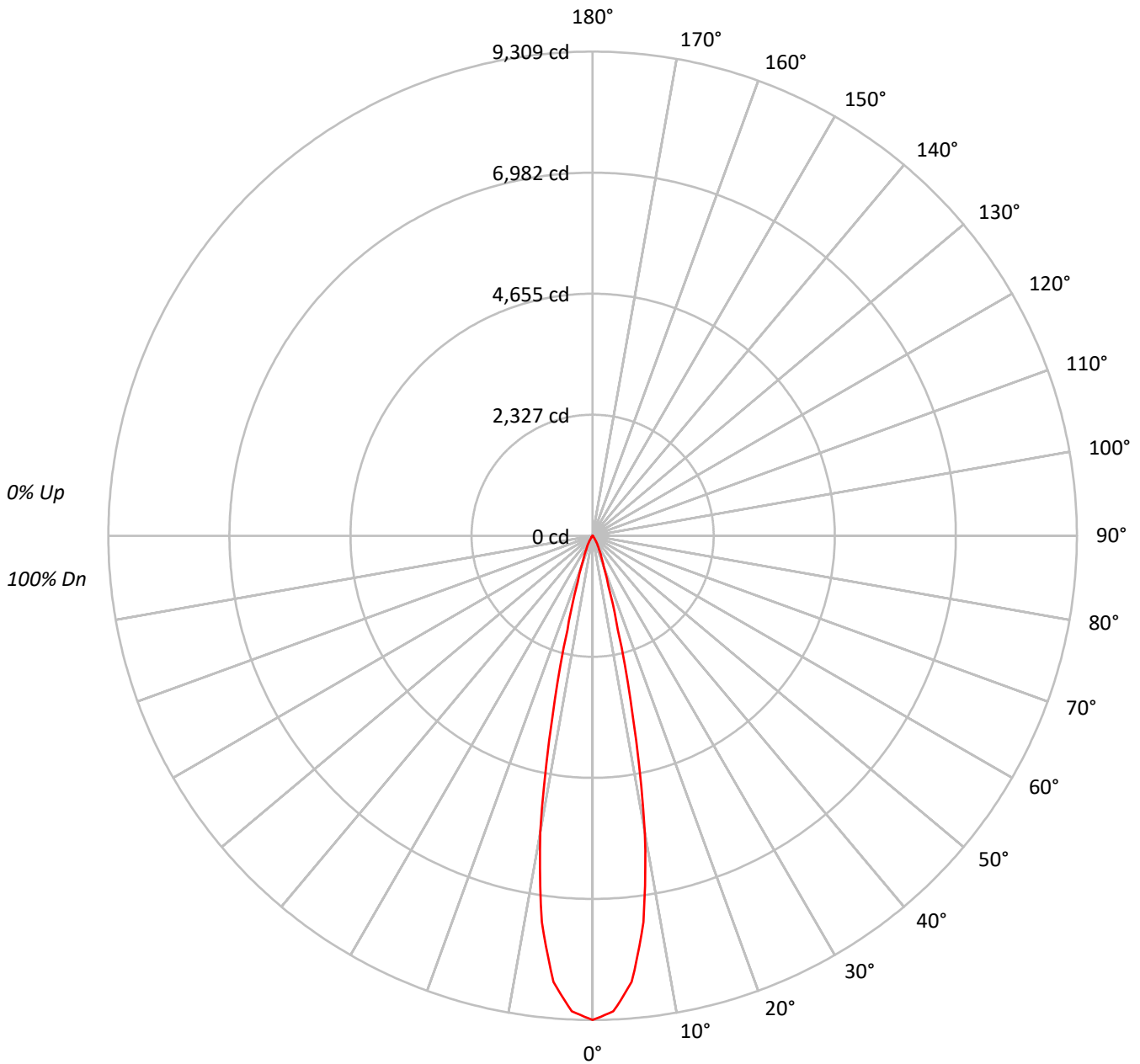
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B2010NFL258040 2LBPIN

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B2010NFL258040 2LBPIN

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	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95	94	94	93
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93	92	92	90
4	106	101	98	95	105	100	97	95	98	96	94	97	94	93	95	93	92	90	89	89	88
5	104	98	95	92	102	98	94	92	96	93	91	95	92	90	93	91	89	88	87	87	86
6	101	96	92	89	100	95	91	89	94	91	88	92	90	88	91	89	87	86	85	85	85
7	99	93	89	87	98	93	89	87	92	88	86	91	88	86	90	87	85	85	84	84	83
8	97	91	87	85	96	90	87	85	90	86	84	89	86	84	88	85	84	83	83	83	83
9	95	89	85	83	94	88	85	83	88	85	82	87	84	82	86	84	82	81	81	81	81
10	93	87	83	81	92	87	83	81	86	83	81	85	83	81	85	82	80	80	80	80	80

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3607024
5°	3349616
10°	2276656
15°	753167
20°	255865
25°	129631
30°	66935
35°	21996
40°	8194
45°	4439
50°	1206
55°	1351
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B2010NFL258040 2LBPIN

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.5	47.6
10°-20°	611.2	39.8
20°-30°	147.9	9.6
30°-40°	38.2	2.5
40°-50°	6.3	0.4
50°-60°	1.1	0.1
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1490.6	97.0
0°-40°	1528.8	99.5
0°-60°	1536.1	100.0
0°-90°	1536.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1536.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9309	
5°	8612	732
15°	1878	611
25°	303	148
35°	46	38
45°	8	6
55°	2	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B2010NFL258040 2LBPIN

CANDELA DISTRIBUTION (FULL):

	0°
0°	9308.8
2.5°	9153.2
5°	8611.6
7.5°	7489.9
10°	5786.2
12.5°	3579.2
15°	1877.5
17.5°	1014.6
20°	620.5
22.5°	428.5
25°	303.2
27.5°	214.2
30°	149.6
32.5°	105.1
35°	46.5
37.5°	20.2
40°	16.2
42.5°	12.1
45°	8.1
47.5°	4.0
50°	2.0
52.5°	2.0
55°	2.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)