

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: P223148

Luminaire Tested: **LD2B15D010 EU2B15NFL258040 2LBDL*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15NFL258040 2LBDL*B
Description: 1500 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1436.7 lumens
Efficiency: N/A
Efficacy: 100.5 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): 14.3
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: P223148

CATALOG NUMBER: LD2B15D010 EU2B15NFL258040 2LBDL*B

Luminous Intensity Polar Plot





TEST NUMBER: P223148

CATALOG NUMBER: LD2B15D010 EU2B15NFL258040 2LBDL*B

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	100	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97	97
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	95	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92	92	92	92
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	90	90	90
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	88	88	88
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86	86	86	86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	87	85	84	84	84	84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	82	82	82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	80	80	80
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79	79	79	79

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3301505
5°	3048354
10°	2063325
15°	701968
20°	257834
25°	136679
30°	70266
35°	32769
40°	10720
45°	5423
50°	2531
55°	945
60°	1085
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223148

CATALOG NUMBER: LD2B15D010 EU2B15NFL258040 2LBDL*B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.9	46.4
10°-20°	560.7	39.0
20°-30°	153.9	10.7
30°-40°	44.9	3.1
40°-50°	8.3	0.6
50°-60°	1.9	0.1
60°-70°	0.2	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°	1381.5	96.2
0°-40°	1426.3	99.3
0°-60°	1436.5	100.0
0°-90°	1436.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8523	
5°	7840	667
15°	1750	561
25°	320	154
35°	69	45
45°	10	8
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223148

CATALOG NUMBER: LD2B15D010 EU2B15NFL258040 2LBDL*B

CANDELA DISTRIBUTION (FULL):

	0°
0°	8523.4
1°	8473.9
2°	8386.1
3°	8260.2
4°	8087.5
5°	7839.9
6°	7501.7
7°	7078.5
8°	6562.0
9°	5952.1
10°	5245.9
11°	4471.8
12°	3666.6
13°	2898.2
14°	2243.0
15°	1750.5
17.5°	987.8
20°	625.5
22.5°	445.8
25°	319.8
27.5°	226.4
30°	157.1
32.5°	110.4
35°	69.3
37.5°	28.3
40°	21.2
42.5°	15.6
45°	9.9
47.5°	5.7
50°	4.2
52.5°	2.8
55°	1.4
57.5°	1.4
60°	1.4
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



TEST NUMBER: P223148

CATALOG NUMBER: LD2B15D010 EU2B15NFL258040 2LBDL*B

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)