

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: P225189

Luminaire Tested: **LD2B15D010 EU2B15FL409030 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15FL409030 2LBDSQC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1052.4 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

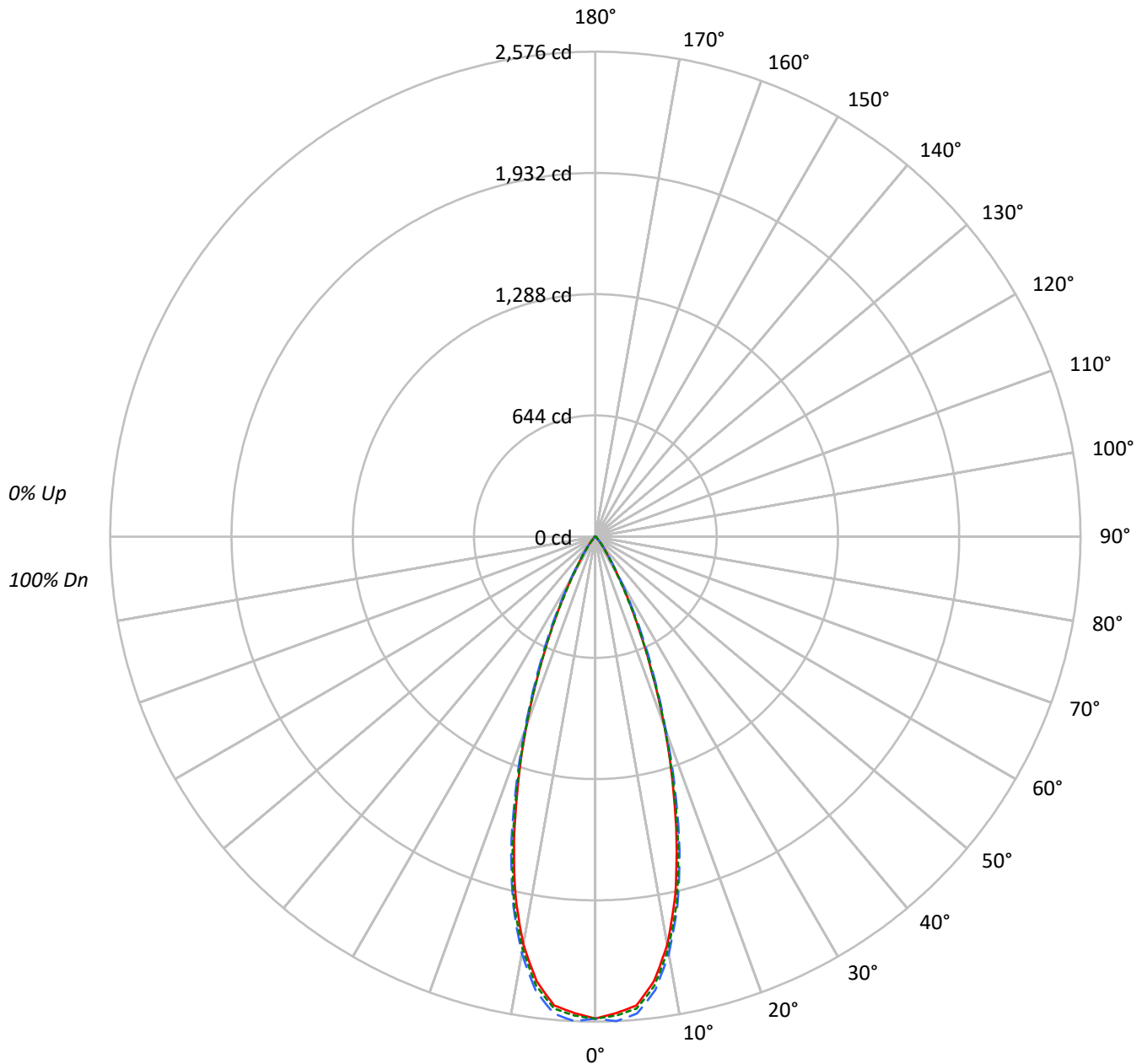
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	112	110	108	112	110	108	107	106	105	103		102	101	100		99
2	110	106	103	100	108	105	102	99	101	99	97		98	97	95		96
3	106	101	97	94	104	99	96	93	97	94	91		95	92	90		92
4	102	96	92	88	100	95	91	88	93	89	87		91	88	86		89
5	98	92	87	84	97	91	86	83	89	85	82		88	84	82		86
6	95	88	83	79	93	87	82	79	86	82	79		84	81	78		83
7	91	84	79	76	90	83	79	76	82	78	75		81	78	75		80
8	88	81	76	73	87	80	76	73	79	75	72		78	75	72		77
9	85	78	73	70	84	77	73	70	76	72	69		76	72	69		75
10	82	75	70	67	82	74	70	67	74	70	67		73	69	67		72

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	991761	991761	991761
5°	972142	988861	978285
10°	865110	883715	874708
15°	668404	692544	680474
20°	440936	450375	443285
25°	240535	257032	241731
30°	108239	119779	103766
35°	46719	48090	42652
40°	19568	20276	18102
45°	7833	8655	8655
50°	3435	4339	4339
55°	1958	1958	2904
60°	1085	1085	1085
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	22.0
10°-20°	460.7	43.8
20°-30°	272.1	25.9
30°-40°	70.8	6.7
40°-50°	14.0	1.3
50°-60°	3.1	0.3
60°-70°	0.3	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°	964.2	91.6
0°-40°	1035.1	98.4
0°-60°	1052.2	100.0
0°-90°	1052.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2560	2560	2560	2560	2560	
5°	2500	2520	2543	2526	2516	229
15°	1667	1704	1727	1701	1697	452
25°	563	581	601	578	566	265
35°	99	103	102	100	90	69
45°	14	17	16	16	16	13
55°	3	3	3	3	4	3
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2560.4	2560.4	2560.4	2560.4	2560.4
2.5°	2533.2	2558.9	2576.1	2561.8	2546.1
5°	2500.2	2520.3	2543.2	2526.0	2516.0
7.5°	2382.8	2412.9	2430.1	2421.5	2405.7
10°	2199.5	2222.4	2246.8	2238.2	2223.9
12.5°	1957.5	1989.0	2011.9	1991.9	1994.7
15°	1666.8	1704.1	1727.0	1701.2	1696.9
17.5°	1358.9	1387.6	1403.3	1387.6	1376.1
20°	1069.7	1086.9	1092.6	1085.4	1075.4
22.5°	790.5	809.1	826.3	809.1	796.2
25°	562.8	581.4	601.4	578.5	565.6
27.5°	379.5	390.9	408.1	386.6	368.0
30°	242.0	254.9	267.8	252.0	232.0
32.5°	153.2	161.8	163.2	160.4	143.2
35°	98.8	103.1	101.7	100.2	90.2
37.5°	63.0	63.0	64.4	63.0	57.3
40°	38.7	41.5	40.1	38.7	35.8
42.5°	22.9	25.8	24.3	24.3	22.9
45°	14.3	17.2	15.8	15.8	15.8
47.5°	10.0	11.5	10.0	10.0	11.5
50°	5.7	7.2	7.2	7.2	7.2
52.5°	4.3	4.3	4.3	4.3	5.7
55°	2.9	2.9	2.9	2.9	4.3
57.5°	2.9	2.9	1.4	1.4	2.9
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	0.0	0.0	0.0	1.4
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)