

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: P225193

Luminaire Tested: **LD2B15D010 EU2B15FL409727 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225193
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 EU2B15FL409727 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: 908.7 lumens
Efficiency: N/A
Efficacy: 63.5 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

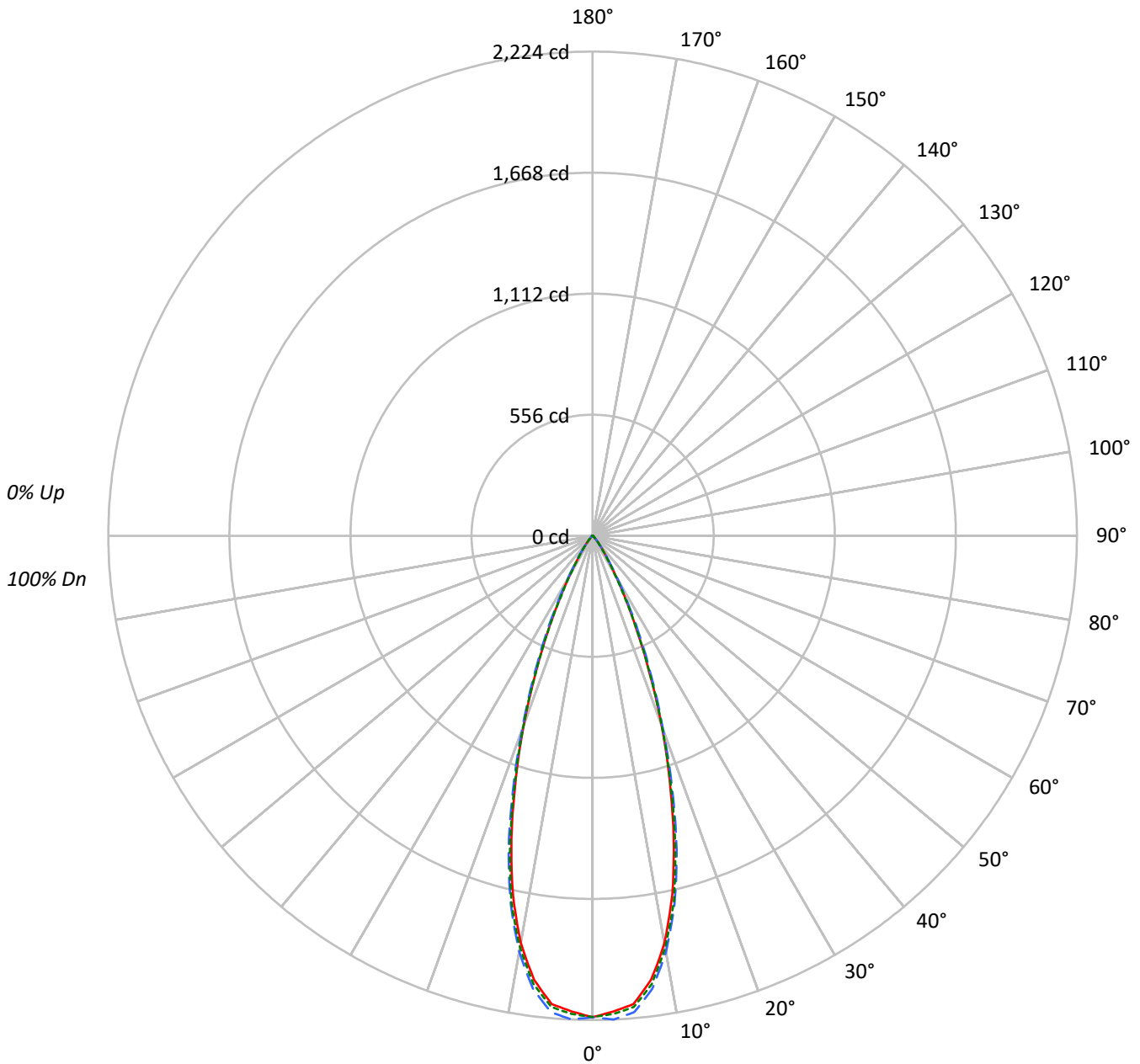
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			96
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91			91
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87			87
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			83
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80			80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77			77
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			71
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68			68
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65			65

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	856345	856345	856345
5°	839397	853822	844685
10°	746996	763044	755256
15°	577134	597986	587560
20°	380713	388874	382774
25°	207668	221943	208737
30°	93479	103409	89588
35°	40335	41517	36836
40°	16889	17495	15624
45°	6793	7450	7450
50°	2953	3736	3736
55°	1688	1688	2499
60°	930	930	930
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°	199.8	22.0
10°-20°	397.8	43.8
20°-30°	235.0	25.9
30°-40°	61.2	6.7
40°-50°	12.1	1.3
50°-60°	2.6	0.3
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°	832.6	91.6
0°-40°	893.7	98.4
0°-60°	908.5	100.0
0°-90°	908.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2211	2211	2211	2211	2211	
5°	2159	2176	2196	2181	2172	198
15°	1439	1471	1491	1469	1465	391
25°	486	502	519	500	488	229
35°	85	89	88	87	78	60
45°	12	15	14	14	14	11
55°	2	2	2	2	4	3
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2210.8	2210.8	2210.8	2210.8	2210.8
2.5°	2187.3	2209.5	2224.4	2212.0	2198.4
5°	2158.8	2176.2	2195.9	2181.1	2172.4
7.5°	2057.5	2083.4	2098.3	2090.8	2077.2
10°	1899.2	1919.0	1940.0	1932.6	1920.2
12.5°	1690.2	1717.4	1737.2	1719.9	1722.4
15°	1439.2	1471.4	1491.2	1468.9	1465.2
17.5°	1173.4	1198.1	1211.7	1198.1	1188.2
20°	923.6	938.5	943.4	937.2	928.6
22.5°	682.5	698.6	713.4	698.6	687.5
25°	485.9	502.0	519.3	499.5	488.4
27.5°	327.7	337.6	352.4	333.8	317.8
30°	209.0	220.1	231.2	217.6	200.3
32.5°	132.3	139.7	141.0	138.5	123.6
35°	85.3	89.0	87.8	86.6	77.9
37.5°	54.4	54.4	55.6	54.4	49.5
40°	33.4	35.9	34.6	33.4	30.9
42.5°	19.8	22.3	21.0	21.0	19.8
45°	12.4	14.8	13.6	13.6	13.6
47.5°	8.7	9.9	8.7	8.7	9.9
50°	4.9	6.2	6.2	6.2	6.2
52.5°	3.7	3.7	3.7	3.7	4.9
55°	2.5	2.5	2.5	2.5	3.7
57.5°	2.5	2.5	1.2	1.2	2.5
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	0.0	0.0	0.0	1.2
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)