

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: P225186

Luminaire Tested: **LD2B15D010 EU2B15FL408050 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225186
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 EU2B15FL408050 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: 1364.8 lumens
Efficiency: N/A
Efficacy: 95.4 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

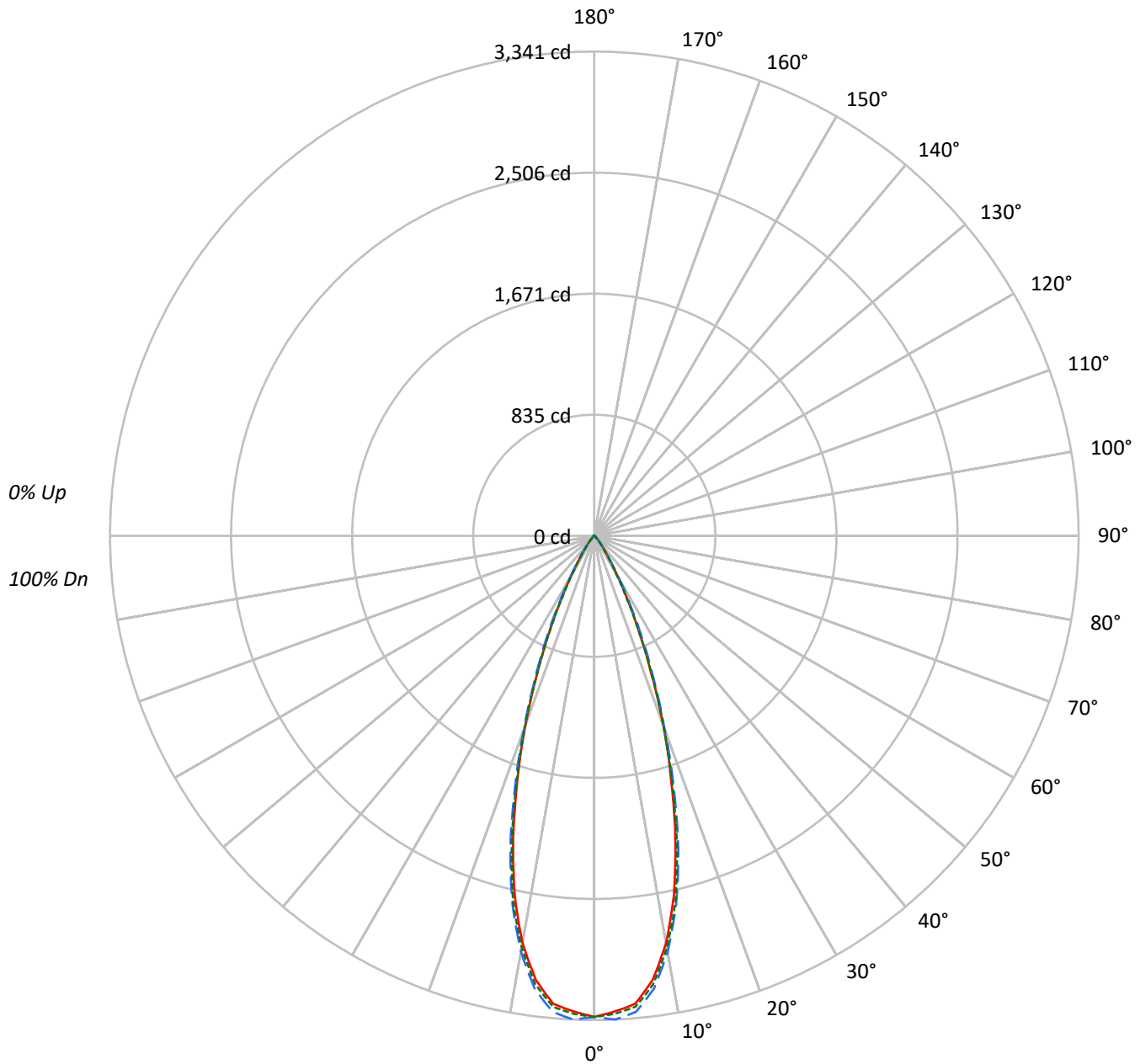
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
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			75	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°	1286144	1286144	1286144
5°	1260728	1282386	1268699
10°	1121910	1146021	1134339
15°	866823	898102	882463
20°	571811	584053	574902
25°	311908	333363	313490
30°	140353	155336	134538
35°	60574	62371	55325
40°	25333	26294	23462
45°	10189	11175	11175
50°	4459	5604	5604
55°	2499	2499	3782
60°	1472	1472	1472
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°	300.1	22.0
10°-20°	597.4	43.8
20°-30°	352.9	25.9
30°-40°	91.9	6.7
40°-50°	18.2	1.3
50°-60°	4.0	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°	1250.4	91.6
0°-40°	1342.3	98.4
0°-60°	1364.5	100.0
0°-90°	1364.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3320	3320	3320	3320	3320	
5°	3242	3268	3298	3276	3263	297
15°	2162	2210	2240	2206	2201	587
25°	730	754	780	750	734	344
35°	128	134	132	130	117	90
45°	19	22	20	20	20	17
55°	4	4	4	4	6	4
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°	3320.4	3320.4	3320.4	3320.4	3320.4
2.5°	3285.1	3318.6	3340.8	3322.3	3301.8
5°	3242.4	3268.4	3298.1	3275.8	3262.9
7.5°	3090.1	3129.1	3151.4	3140.3	3119.9
10°	2852.4	2882.2	2913.7	2902.6	2884.0
12.5°	2538.6	2579.5	2609.2	2583.2	2586.9
15°	2161.6	2209.9	2239.6	2206.2	2200.6
17.5°	1762.3	1799.5	1819.9	1799.5	1784.6
20°	1387.2	1409.5	1416.9	1407.6	1394.7
22.5°	1025.1	1049.2	1071.5	1049.2	1032.5
25°	729.8	754.0	780.0	750.3	733.5
27.5°	492.1	507.0	529.3	501.4	477.3
30°	313.8	330.6	347.3	326.8	300.8
32.5°	198.7	209.8	211.7	208.0	185.7
35°	128.1	133.7	131.9	130.0	117.0
37.5°	81.7	81.7	83.6	81.7	74.3
40°	50.1	53.9	52.0	50.1	46.4
42.5°	29.7	33.4	31.6	31.6	29.7
45°	18.6	22.3	20.4	20.4	20.4
47.5°	13.0	14.9	13.0	13.0	14.9
50°	7.4	9.3	9.3	9.3	9.3
52.5°	5.6	5.6	5.6	5.6	7.4
55°	3.7	3.7	3.7	3.7	5.6
57.5°	3.7	3.7	1.9	1.9	3.7
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	0.0	0.0	0.0	1.9
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)