

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: P225191

Luminaire Tested: **LD2B15D010 EU2B15FL409040 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225191
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 EU2B15FL409040 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: 1117.0 lumens
Efficiency: N/A
Efficacy: 78.1 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

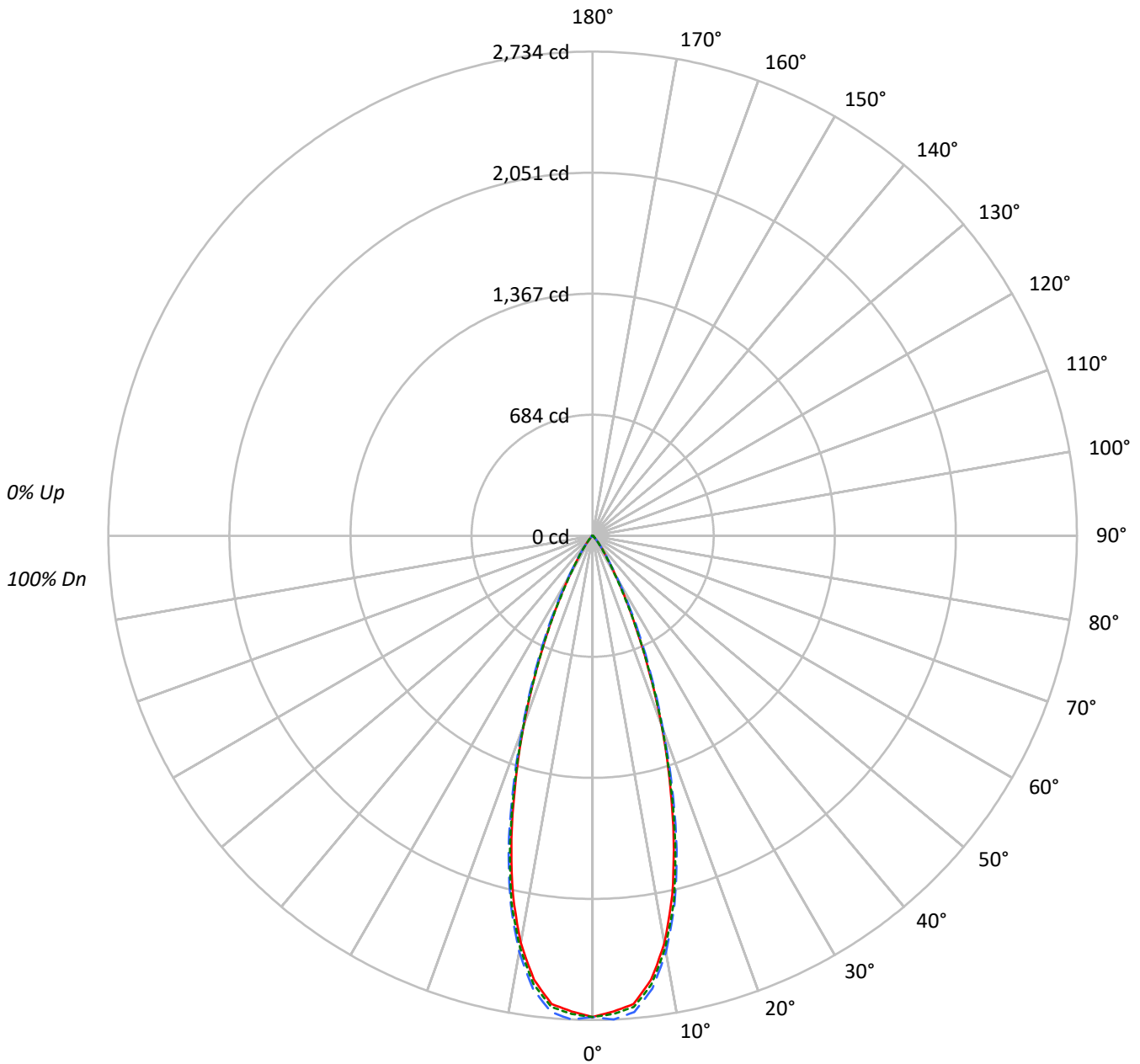
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1052613	1052613	1052613
5°	1031826	1049557	1038320
10°	918209	937954	928396
15°	709427	735051	722259
20°	468018	478034	470491
25°	255279	272802	256604
30°	114903	127114	110118
35°	49603	51022	45300
40°	20731	21540	19214
45°	8326	9148	9148
50°	3676	4580	4580
55°	2026	2026	3106
60°	1162	1162	1162
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°	245.6	22.0
10°-20°	489.0	43.8
20°-30°	288.8	25.9
30°-40°	75.2	6.7
40°-50°	14.9	1.3
50°-60°	3.2	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°	1023.4	91.6
0°-40°	1098.6	98.4
0°-60°	1116.7	100.0
0°-90°	1117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2718	2718	2718	2718	2718	
5°	2654	2675	2699	2681	2670	243
15°	1769	1809	1833	1806	1801	480
25°	597	617	638	614	600	281
35°	105	109	108	106	96	73
45°	15	18	17	17	17	14
55°	3	3	3	3	5	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°	2717.5	2717.5	2717.5	2717.5	2717.5
2.5°	2688.7	2716.0	2734.3	2719.1	2702.3
5°	2653.7	2675.0	2699.3	2681.1	2670.4
7.5°	2529.1	2561.0	2579.2	2570.1	2553.4
10°	2334.5	2358.9	2384.7	2375.6	2360.4
12.5°	2077.7	2111.1	2135.4	2114.2	2117.2
15°	1769.1	1808.7	1833.0	1805.6	1801.1
17.5°	1442.4	1472.8	1489.5	1472.8	1460.6
20°	1135.4	1153.6	1159.7	1152.1	1141.4
22.5°	839.0	858.7	877.0	858.7	845.1
25°	597.3	617.1	638.3	614.0	600.4
27.5°	402.8	414.9	433.2	410.4	390.6
30°	256.9	270.5	284.2	267.5	246.2
32.5°	162.6	171.7	173.3	170.2	152.0
35°	104.9	109.4	107.9	106.4	95.8
37.5°	66.9	66.9	68.4	66.9	60.8
40°	41.0	44.1	42.6	41.0	38.0
42.5°	24.3	27.4	25.8	25.8	24.3
45°	15.2	18.2	16.7	16.7	16.7
47.5°	10.6	12.2	10.6	10.6	12.2
50°	6.1	7.6	7.6	7.6	7.6
52.5°	4.6	4.6	4.6	4.6	6.1
55°	3.0	3.0	3.0	3.0	4.6
57.5°	3.0	3.0	1.5	1.5	3.0
60°	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	0.0	0.0	0.0	1.5
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)