

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: P225190

Luminaire Tested: **LD2B15D010 EU2B15FL409035 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225190
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 EU2B15FL409035 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: 1093.7 lumens
Efficiency: N/A
Efficacy: 76.5 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

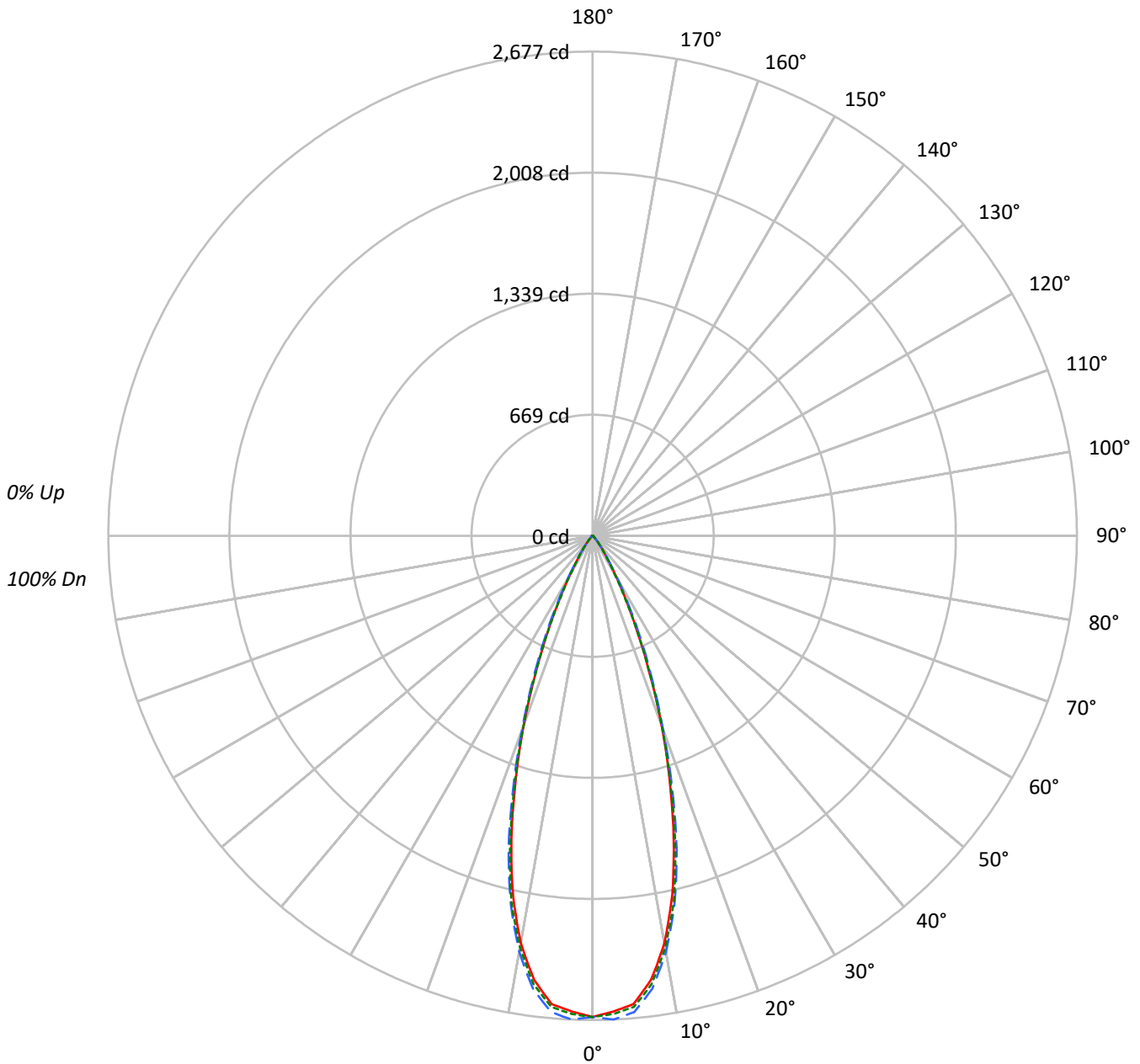
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	75	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°	1030689	1030689	1030689
5°	1010324	1027666	1016662
10°	899054	918366	909005
15°	694630	719693	707181
20°	458248	468059	460680
25°	249980	267118	251219
30°	112488	124475	107836
35°	48563	49982	44354
40°	20327	21085	18810
45°	8162	8984	8984
50°	3616	4459	4459
55°	2026	2026	3039
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°	240.5	22.0
10°-20°	478.8	43.8
20°-30°	282.8	25.9
30°-40°	73.6	6.7
40°-50°	14.6	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°	1002.1	91.6
0°-40°	1075.7	98.4
0°-60°	1093.5	100.0
0°-90°	1093.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2661	2661	2661	2661	2661	
5°	2598	2619	2643	2625	2615	238
15°	1732	1771	1795	1768	1764	470
25°	585	604	625	601	588	276
35°	103	107	106	104	94	72
45°	15	18	16	16	16	14
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°	2660.9	2660.9	2660.9	2660.9	2660.9
2.5°	2632.6	2659.4	2677.2	2662.3	2646.0
5°	2598.4	2619.2	2643.0	2625.1	2614.7
7.5°	2476.3	2507.6	2525.4	2516.5	2500.1
10°	2285.8	2309.7	2334.9	2326.0	2311.1
12.5°	2034.3	2067.1	2090.9	2070.1	2073.0
15°	1732.2	1770.9	1794.7	1768.0	1763.5
17.5°	1412.3	1442.0	1458.4	1442.0	1430.1
20°	1111.7	1129.5	1135.5	1128.0	1117.6
22.5°	821.5	840.8	858.7	840.8	827.4
25°	584.9	604.2	625.0	601.2	587.8
27.5°	394.4	406.3	424.1	401.8	382.5
30°	251.5	264.9	278.3	261.9	241.1
32.5°	159.2	168.2	169.7	166.7	148.8
35°	102.7	107.1	105.7	104.2	93.8
37.5°	65.5	65.5	67.0	65.5	59.5
40°	40.2	43.2	41.7	40.2	37.2
42.5°	23.8	26.8	25.3	25.3	23.8
45°	14.9	17.9	16.4	16.4	16.4
47.5°	10.4	11.9	10.4	10.4	11.9
50°	6.0	7.4	7.4	7.4	7.4
52.5°	4.5	4.5	4.5	4.5	6.0
55°	3.0	3.0	3.0	3.0	4.5
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)