

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: P225187

Luminaire Tested: **LD2B15D010 EU2B15FL409024 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225187
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 EU2B15FL409024 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: 937.4 lumens
Efficiency: N/A
Efficacy: 65.6 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

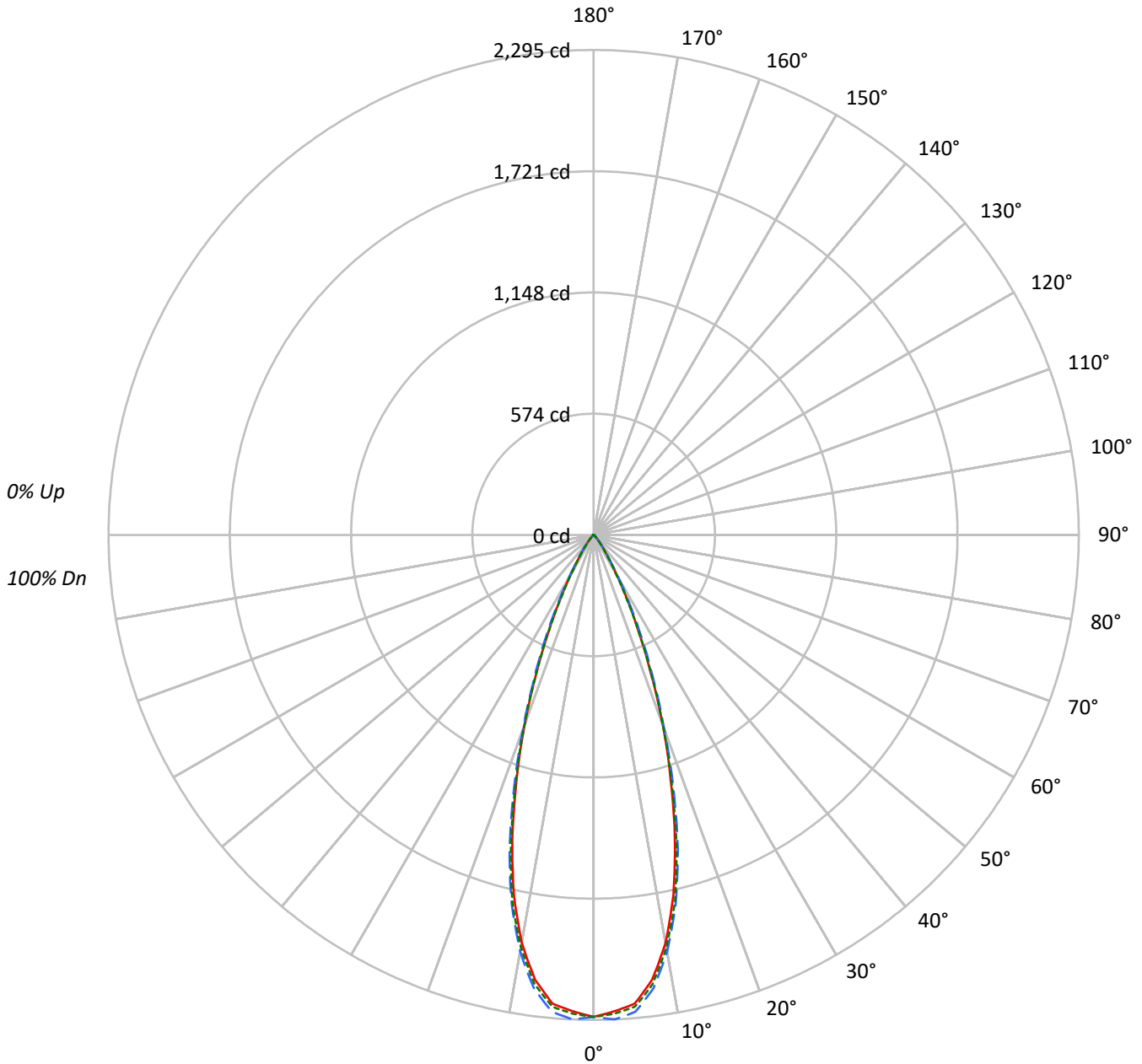
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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	96	94	93	91	91	90	89	87	87	85	83	83	81	80													
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91	91	89	87	85	83	83	81	80	77	75	73	71	68														
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	85	83	81	80	77	75	73	71	68	65																
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	81	80	77	75	73	71	68	65																		
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80	77	75	73	71	68	65																					
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77	74	72	71	68	65																						
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	71	68	65																								
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	68	65																									
9	85	78	73	70	84	77	73	70	76	72	69	75	72	69	75	71	69	68	65																										
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°	883381	883381	883381
5°	865915	880807	871397
10°	770595	787154	779130
15°	595380	616874	606127
20°	392749	401158	394851
25°	214250	228952	215319
30°	96431	106674	92406
35°	41612	42841	38018
40°	17394	18052	16130
45°	7012	7669	7669
50°	3073	3857	3857
55°	1756	1756	2566
60°	1007	1007	1007
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°	206.1	22.0
10°-20°	410.3	43.8
20°-30°	242.4	25.9
30°-40°	63.1	6.7
40°-50°	12.5	1.3
50°-60°	2.7	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°	858.9	91.6
0°-40°	922.0	98.4
0°-60°	937.2	100.0
0°-90°	937.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	937.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2227	2245	2265	2250	2241	204
15°	1485	1518	1538	1515	1512	403
25°	501	518	536	515	504	236
35°	88	92	91	89	80	62
45°	13	15	14	14	14	12
55°	3	3	3	3	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°	2280.6	2280.6	2280.6	2280.6	2280.6
2.5°	2256.4	2279.3	2294.6	2281.9	2267.8
5°	2227.0	2244.9	2265.3	2250.0	2241.1
7.5°	2122.4	2149.2	2164.5	2156.9	2142.8
10°	1959.2	1979.6	2001.3	1993.6	1980.9
12.5°	1743.6	1771.7	1792.1	1774.2	1776.8
15°	1484.7	1517.8	1538.3	1515.3	1511.5
17.5°	1210.5	1236.0	1250.0	1236.0	1225.8
20°	952.8	968.1	973.2	966.8	957.9
22.5°	704.1	720.7	736.0	720.7	709.2
25°	501.3	517.9	535.7	515.3	503.8
27.5°	338.0	348.2	363.5	344.4	327.8
30°	215.6	227.0	238.5	224.5	206.6
32.5°	136.5	144.1	145.4	142.9	127.6
35°	88.0	91.8	90.6	89.3	80.4
37.5°	56.1	56.1	57.4	56.1	51.0
40°	34.4	37.0	35.7	34.4	31.9
42.5°	20.4	23.0	21.7	21.7	20.4
45°	12.8	15.3	14.0	14.0	14.0
47.5°	8.9	10.2	8.9	8.9	10.2
50°	5.1	6.4	6.4	6.4	6.4
52.5°	3.8	3.8	3.8	3.8	5.1
55°	2.6	2.6	2.6	2.6	3.8
57.5°	2.6	2.6	1.3	1.3	2.6
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	0.0	0.0	0.0	1.3
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)