

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: P#

Luminaire Tested: **LD2B15D010 EU2B15WFL558027 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14813)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15WFL558027 2LBDSQC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

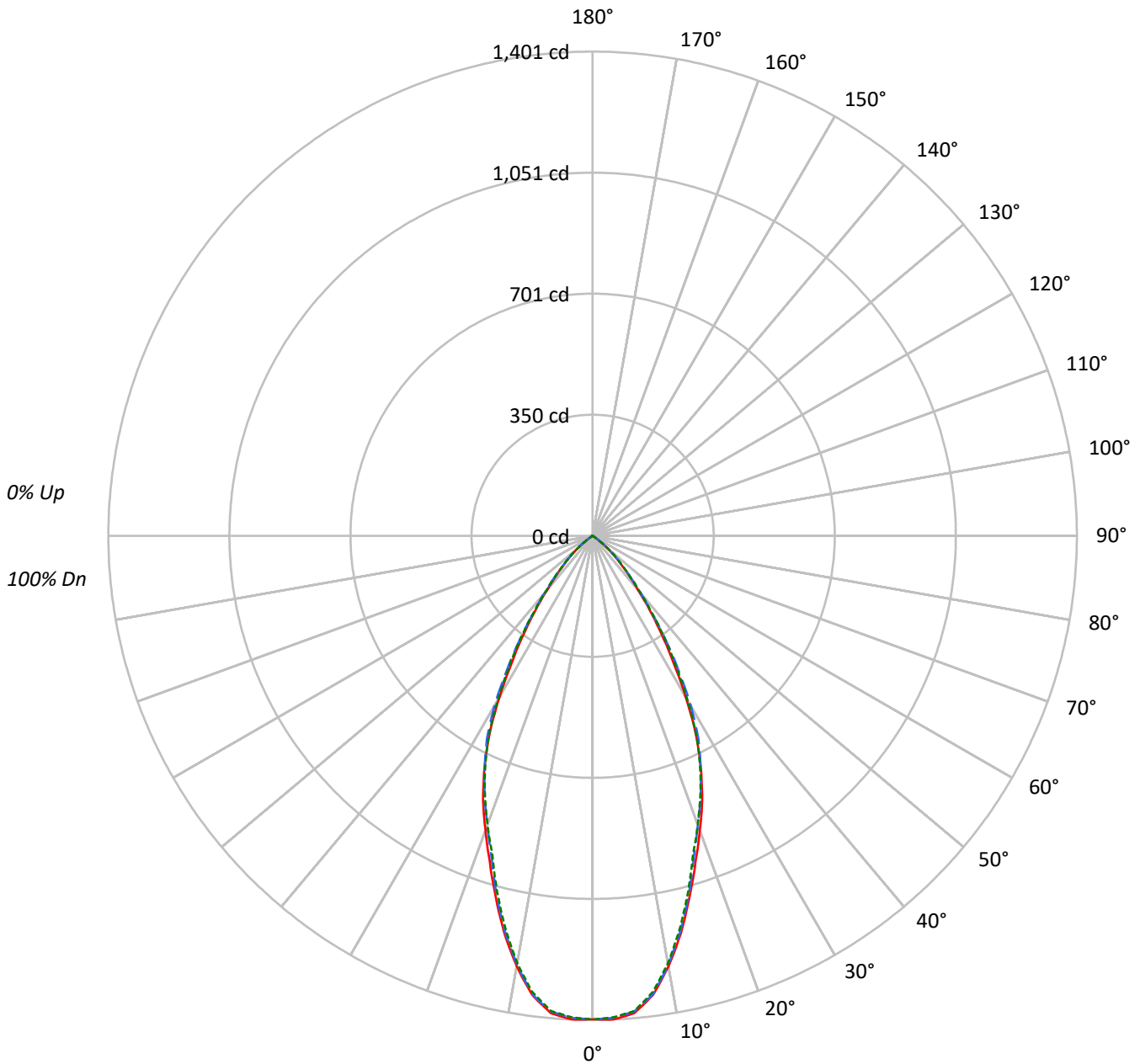
Lumens per Lamp: N/A
Luminaire Lumens: 1104.4 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81																			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65																			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61																			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57																			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54																			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	542013	542013	542013
5°	539107	537240	536618
10°	497512	495624	493736
15°	434134	430925	427717
20°	373746	366491	366491
25°	316439	315755	314387
30°	241033	253914	245327
35°	164083	173919	172406
40°	103505	109169	108360
45°	63927	64804	65680
50°	32782	36638	35674
55°	4322	12966	5403
60°	1240	1240	1240
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°	128.0	11.6
10°-20°	299.2	27.1
20°-30°	335.8	30.4
30°-40°	228.1	20.6
40°-50°	95.3	8.6
50°-60°	17.8	1.6
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°	762.9	69.1
0°-40°	991.0	89.7
0°-60°	1104.1	100.0
0°-90°	1104.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1104.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1386	1385	1382	1378	1380	128
15°	1083	1079	1075	1065	1067	302
25°	740	747	739	737	736	335
35°	347	358	368	360	365	220
45°	117	115	118	120	120	93
55°	6	14	19	14	8	13
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°	1399.3	1399.3	1399.3	1399.3	1399.3
2.5°	1400.9	1397.7	1396.1	1394.5	1394.5
5°	1386.5	1384.9	1381.7	1378.5	1380.1
7.5°	1340.1	1338.5	1338.5	1332.1	1332.1
10°	1264.9	1264.9	1260.1	1260.1	1255.3
12.5°	1178.6	1172.2	1172.2	1167.4	1164.2
15°	1082.6	1079.4	1074.6	1065.0	1066.6
17.5°	989.9	983.5	973.9	969.1	965.9
20°	906.7	905.1	889.1	885.9	889.1
22.5°	828.4	830.0	817.2	814.0	814.0
25°	740.4	746.8	738.8	737.2	735.6
27.5°	646.1	657.3	662.1	650.9	649.3
30°	538.9	558.1	567.7	556.5	548.5
32.5°	435.0	454.2	463.8	455.8	451.0
35°	347.0	358.2	367.8	359.8	364.6
37.5°	271.9	278.3	281.5	281.5	281.5
40°	204.7	211.1	215.9	217.5	214.3
42.5°	155.1	158.3	161.5	163.1	161.5
45°	116.7	115.1	118.3	119.9	119.9
47.5°	84.8	84.8	86.4	88.0	88.0
50°	54.4	57.6	60.8	59.2	59.2
52.5°	24.0	33.6	40.0	33.6	27.2
55°	6.4	14.4	19.2	14.4	8.0
57.5°	1.6	4.8	6.4	4.8	3.2
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	0.0	0.0	0.0	1.6
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)