

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: **LD2B10D010 EU2B10WFL559030 2LBDSQLC*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 (P14812)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B10D010 EU2B10WFL559030 2LBDSQLC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 675.1 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

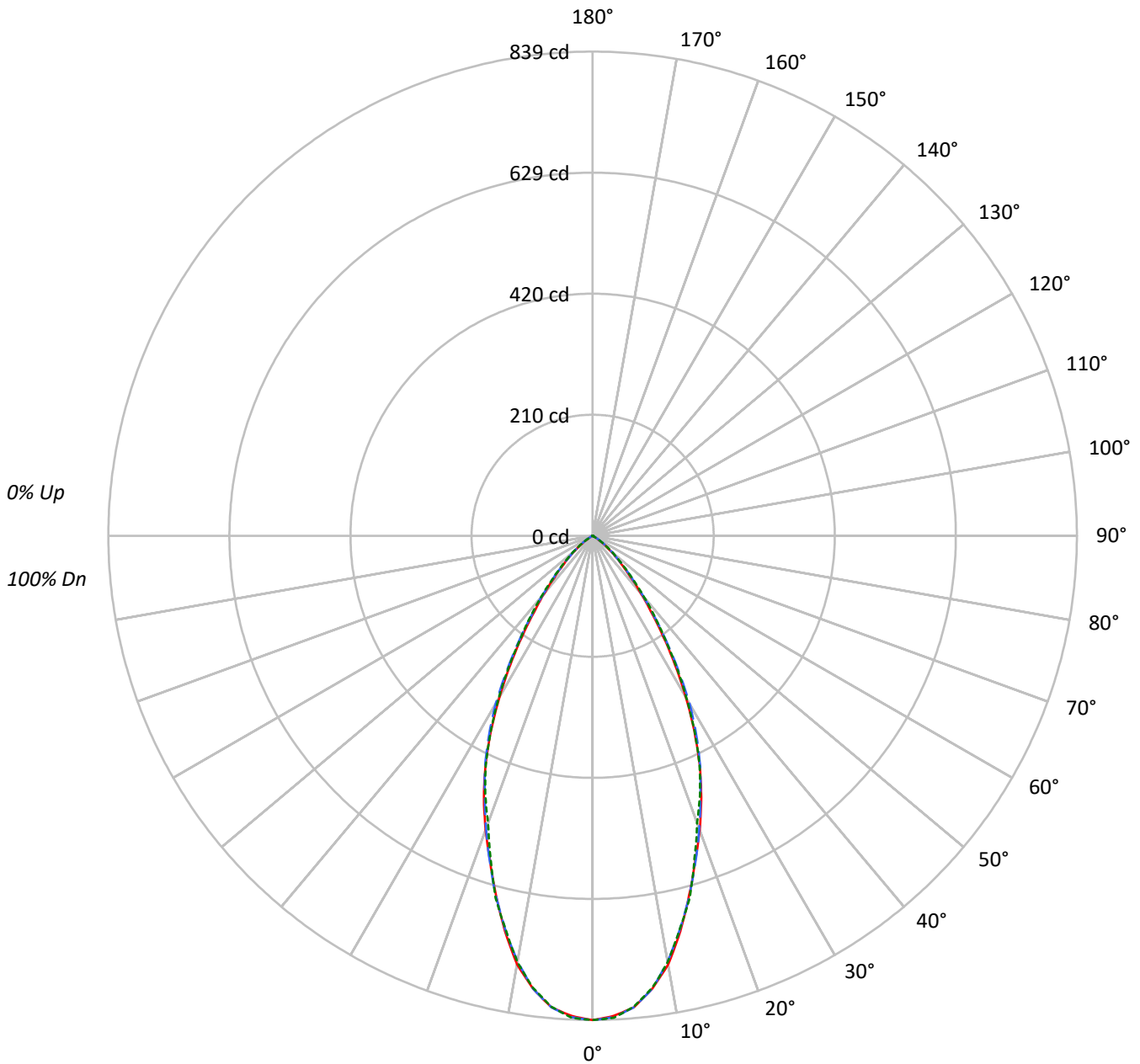
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93				93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80				80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74				74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69				69
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64				64
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60				60
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56				56
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53				53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50				50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	325099	325099	325099
5°	318876	318876	318487
10°	296604	294519	294912
15°	258852	259253	260536
20°	223456	222591	218221
25°	187538	188479	187111
30°	144334	150059	145765
35°	100720	104739	103746
40°	65683	68414	70537
45°	40263	42618	44316
50°	23743	25671	26936
55°	10062	12966	12223
60°	1627	3331	2479
65°	1008	1008	1008
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°	76.0	11.3
10°-20°	179.9	26.6
20°-30°	199.3	29.5
30°-40°	138.7	20.5
40°-50°	62.4	9.2
50°-60°	17.6	2.6
60°-70°	1.2	0.2
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°	455.2	67.4
0°-40°	593.8	88.0
0°-60°	673.9	99.8
0°-90°	675.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	820	823	820	817	819	76
15°	646	649	646	646	650	180
25°	439	442	441	436	438	199
35°	213	219	222	222	219	134
45°	74	76	78	80	81	59
55°	15	17	19	19	18	15
65°	1	1	1	1	1	1
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°	839.3	839.3	839.3	839.3	839.3
2.5°	832.9	837.2	835.1	835.1	836.1
5°	820.1	823.3	820.1	817.0	819.1
7.5°	791.4	794.6	791.4	789.3	790.3
10°	754.1	752.0	748.8	746.7	749.8
12.5°	701.9	700.9	698.7	697.7	697.7
15°	645.5	648.7	646.5	645.5	649.7
17.5°	591.1	594.3	592.2	589.0	586.9
20°	542.1	543.2	540.0	534.7	529.4
22.5°	492.1	493.2	487.8	485.7	485.7
25°	438.8	442.0	441.0	435.6	437.8
27.5°	381.3	386.6	388.8	382.4	382.4
30°	322.7	327.0	335.5	327.0	325.9
32.5°	265.2	271.6	275.9	274.8	271.6
35°	213.0	219.4	221.5	221.5	219.4
37.5°	166.2	172.6	174.7	176.8	176.8
40°	129.9	133.1	135.3	138.5	139.5
42.5°	98.0	101.2	104.4	106.5	105.4
45°	73.5	75.6	77.8	79.9	80.9
47.5°	55.4	55.4	57.5	59.6	59.6
50°	39.4	41.5	42.6	43.7	44.7
52.5°	26.6	27.7	29.8	30.9	29.8
55°	14.9	17.0	19.2	19.2	18.1
57.5°	6.4	9.6	10.7	10.7	8.5
60°	2.1	4.3	4.3	5.3	3.2
62.5°	1.1	2.1	2.1	2.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
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)