

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 EU2B10WFL559035 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 EU2B10WFL559035 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: 700.5 lumens
Efficiency: N/A
Efficacy: 68.0 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

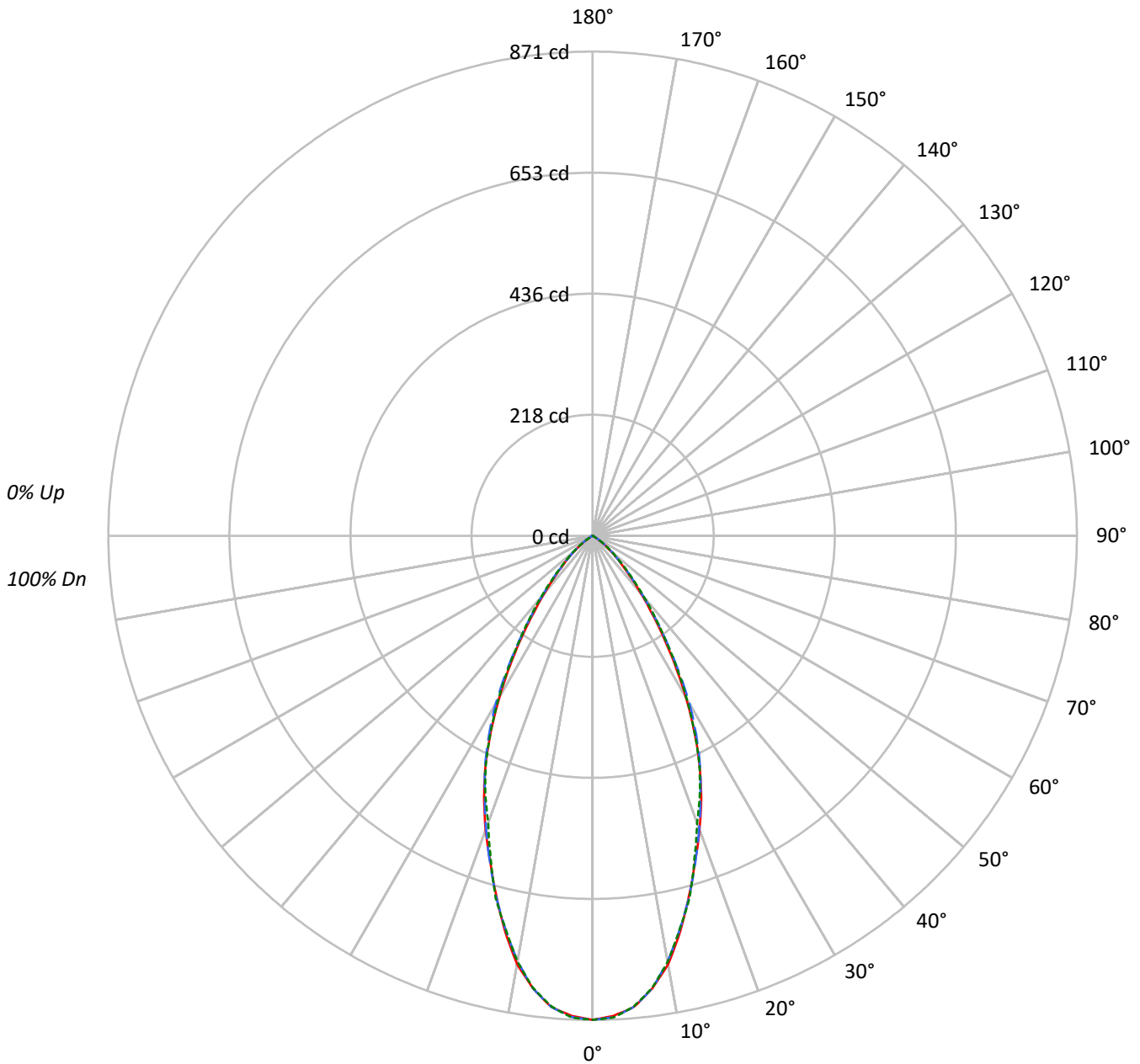
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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	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°	337340	337340	337340
5°	330891	330891	330463
10°	307774	305611	306043
15°	268597	269038	270361
20°	231865	230958	226424
25°	194590	195573	194120
30°	149790	155694	151266
35°	104503	108711	107671
40°	68161	70992	73217
45°	41796	44207	46014
50°	24646	26635	27961
55°	10467	13439	12696
60°	1704	3409	2556
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°	78.9	11.3
10°-20°	186.6	26.6
20°-30°	206.8	29.5
30°-40°	143.9	20.5
40°-50°	64.8	9.2
50°-60°	18.3	2.6
60°-70°	1.3	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°	472.3	67.4
0°-40°	616.2	88.0
0°-60°	699.3	99.8
0°-90°	700.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	851	854	851	848	850	79
15°	670	673	671	670	674	187
25°	455	459	458	452	454	206
35°	221	228	230	230	228	139
45°	76	78	81	83	84	62
55°	16	18	20	20	19	16
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°	870.9	870.9	870.9	870.9	870.9
2.5°	864.3	868.7	866.5	866.5	867.6
5°	851.0	854.3	851.0	847.7	849.9
7.5°	821.2	824.5	821.2	819.0	820.1
10°	782.5	780.3	777.0	774.7	778.1
12.5°	728.3	727.2	725.0	723.9	723.9
15°	669.8	673.1	670.9	669.8	674.2
17.5°	613.4	616.7	614.5	611.2	609.0
20°	562.5	563.7	560.3	554.8	549.3
22.5°	510.6	511.7	506.2	504.0	504.0
25°	455.3	458.7	457.6	452.0	454.2
27.5°	395.7	401.2	403.4	396.8	396.8
30°	334.9	339.3	348.1	339.3	338.2
32.5°	275.2	281.8	286.2	285.1	281.8
35°	221.0	227.7	229.9	229.9	227.7
37.5°	172.4	179.0	181.3	183.5	183.5
40°	134.8	138.1	140.4	143.7	144.8
42.5°	101.7	105.0	108.3	110.5	109.4
45°	76.3	78.5	80.7	82.9	84.0
47.5°	57.5	57.5	59.7	61.9	61.9
50°	40.9	43.1	44.2	45.3	46.4
52.5°	27.6	28.7	30.9	32.1	30.9
55°	15.5	17.7	19.9	19.9	18.8
57.5°	6.6	9.9	11.1	11.1	8.8
60°	2.2	4.4	4.4	5.5	3.3
62.5°	1.1	2.2	2.2	2.2	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)