

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 EU2B15WFL559024 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: LD2B15D010 EU2B15WFL559024 2LBDSQLC*MB
Description: 1500 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: 808.1 lumens
Efficiency: N/A
Efficacy: 56.5 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

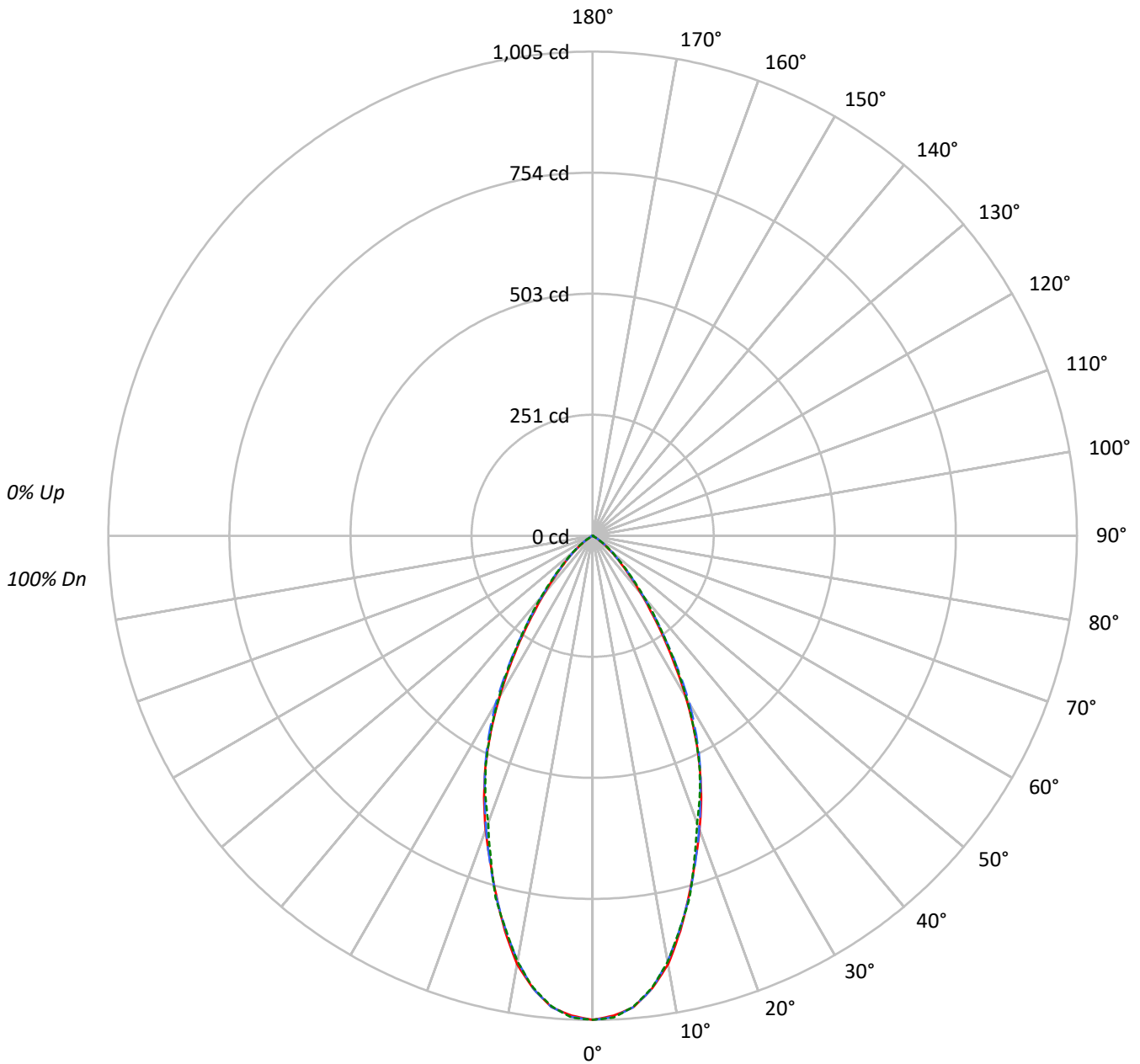
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	389167	389167	389167
5°	381710	381710	381205
10°	355051	352534	353045
15°	309820	310342	311866
20°	267521	266449	261214
25°	224507	225576	223952
30°	172780	179623	174479
35°	120580	125403	124174
40°	78628	81864	84443
45°	48206	50999	53081
50°	28443	30733	32239
55°	12021	15465	14654
60°	1937	3951	2944
65°	1192	1192	1192
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°	91.0	11.3
10°-20°	215.3	26.6
20°-30°	238.5	29.5
30°-40°	166.0	20.5
40°-50°	74.7	9.2
50°-60°	21.1	2.6
60°-70°	1.5	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°	544.8	67.4
0°-40°	710.8	88.0
0°-60°	806.6	99.8
0°-90°	808.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	982	986	982	978	980	91
15°	773	776	774	773	778	216
25°	525	529	528	522	524	238
35°	255	263	265	265	263	161
45°	88	90	93	96	97	71
55°	18	20	23	23	22	18
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°	1004.7	1004.7	1004.7	1004.7	1004.7
2.5°	997.0	1002.1	999.6	999.6	1000.8
5°	981.7	985.5	981.7	977.9	980.4
7.5°	947.3	951.1	947.3	944.7	946.0
10°	902.7	900.1	896.3	893.7	897.6
12.5°	840.2	838.9	836.4	835.1	835.1
15°	772.6	776.5	773.9	772.6	777.7
17.5°	707.6	711.4	708.9	705.1	702.5
20°	649.0	650.2	646.4	640.0	633.7
22.5°	589.0	590.3	583.9	581.4	581.4
25°	525.3	529.1	527.8	521.5	524.0
27.5°	456.4	462.8	465.4	457.7	457.7
30°	386.3	391.4	401.6	391.4	390.1
32.5°	317.5	325.1	330.2	328.9	325.1
35°	255.0	262.6	265.2	265.2	262.6
37.5°	198.9	206.5	209.1	211.6	211.6
40°	155.5	159.4	161.9	165.7	167.0
42.5°	117.3	121.1	124.9	127.5	126.2
45°	88.0	90.5	93.1	95.6	96.9
47.5°	66.3	66.3	68.8	71.4	71.4
50°	47.2	49.7	51.0	52.3	53.5
52.5°	31.9	33.1	35.7	37.0	35.7
55°	17.8	20.4	22.9	22.9	21.7
57.5°	7.6	11.5	12.7	12.7	10.2
60°	2.5	5.1	5.1	6.4	3.8
62.5°	1.3	2.5	2.5	2.5	1.3
65°	1.3	1.3	1.3	1.3	1.3
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)