

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 EU2B10WFL559024 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: LD2B10D010 EU2B10WFL559024 2LBDSQC*MB
Description: 1000 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: 600.4 lumens
Efficiency: N/A
Efficacy: 58.3 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

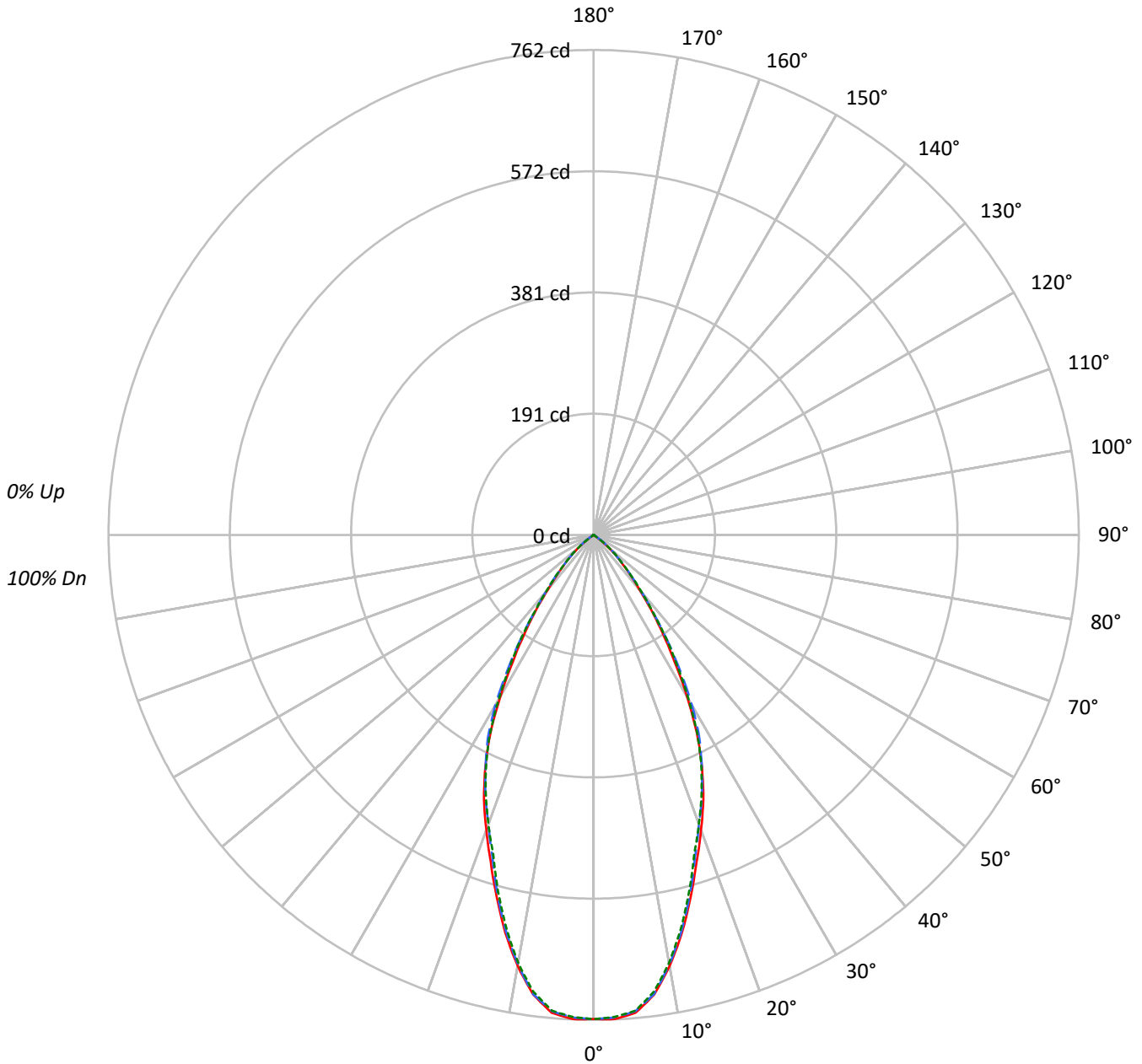
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	294654	294654	294654
5°	293058	292047	291736
10°	270487	269465	268442
15°	236035	234270	232546
20°	203176	199260	199260
25°	172024	171682	170913
30°	131050	138027	133376
35°	89229	94572	93721
40°	56278	59363	58908
45°	34785	35223	35716
50°	17837	19886	19404
55°	2364	7023	2904
60°	697	697	697
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°	69.6	11.6
10°-20°	162.6	27.1
20°-30°	182.5	30.4
30°-40°	124.0	20.6
40°-50°	51.8	8.6
50°-60°	9.7	1.6
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°	414.8	69.1
0°-40°	538.7	89.7
0°-60°	600.2	100.0
0°-90°	600.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	754	753	751	749	750	70
15°	589	587	584	579	580	164
25°	402	406	402	401	400	182
35°	189	195	200	196	198	120
45°	64	63	64	65	65	50
55°	4	8	10	8	4	7
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°	760.7	760.7	760.7	760.7	760.7
2.5°	761.6	759.8	759.0	758.1	758.1
5°	753.7	752.9	751.1	749.4	750.3
7.5°	728.5	727.7	727.7	724.2	724.2
10°	687.7	687.7	685.1	685.1	682.5
12.5°	640.7	637.3	637.3	634.6	632.9
15°	588.6	586.8	584.2	579.0	579.9
17.5°	538.1	534.7	529.4	526.8	525.1
20°	492.9	492.1	483.4	481.6	483.4
22.5°	450.3	451.2	444.3	442.5	442.5
25°	402.5	406.0	401.7	400.8	399.9
27.5°	351.2	357.3	359.9	353.8	353.0
30°	293.0	303.4	308.6	302.5	298.2
32.5°	236.5	246.9	252.1	247.8	245.2
35°	188.7	194.7	200.0	195.6	198.2
37.5°	147.8	151.3	153.0	153.0	153.0
40°	111.3	114.8	117.4	118.2	116.5
42.5°	84.3	86.1	87.8	88.7	87.8
45°	63.5	62.6	64.3	65.2	65.2
47.5°	46.1	46.1	46.9	47.8	47.8
50°	29.6	31.3	33.0	32.2	32.2
52.5°	13.0	18.3	21.7	18.3	14.8
55°	3.5	7.8	10.4	7.8	4.3
57.5°	0.9	2.6	3.5	2.6	1.7
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.0	0.0	0.0	0.9
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)