

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 EU2B10WFL559027 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 EU2B10WFL559027 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: 647.1 lumens
Efficiency: N/A
Efficacy: 62.8 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

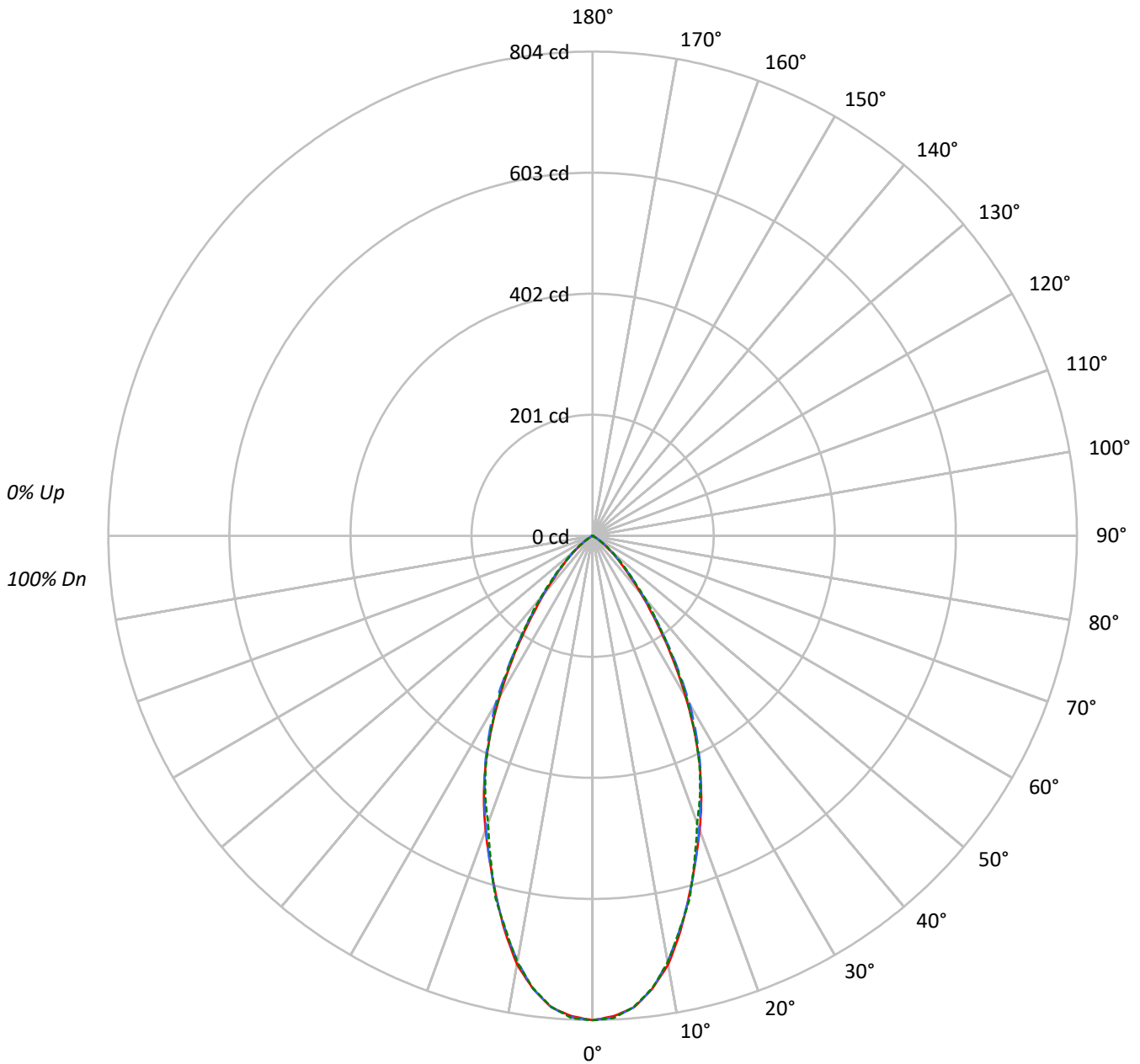
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	311620	311620	311620
5°	305656	305656	305267
10°	284293	282287	282680
15°	248105	248506	249749
20°	214223	213357	209153
25°	179760	180657	179332
30°	138340	143842	139727
35°	96558	100436	99443
40°	63003	65582	67605
45°	38564	40810	42509
50°	22778	24586	25852
55°	9657	12426	11751
60°	1549	3176	2402
65°	917	917	917
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°	72.9	11.3
10°-20°	172.4	26.6
20°-30°	191.0	29.5
30°-40°	132.9	20.5
40°-50°	59.8	9.2
50°-60°	16.9	2.6
60°-70°	1.1	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°	436.3	67.4
0°-40°	569.2	88.0
0°-60°	645.9	99.8
0°-90°	647.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	786	789	786	783	785	73
15°	619	622	620	619	623	173
25°	421	424	423	418	420	191
35°	204	210	212	212	210	129
45°	70	72	74	77	78	57
55°	14	16	18	18	17	14
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°	804.5	804.5	804.5	804.5	804.5
2.5°	798.4	802.5	800.4	800.4	801.4
5°	786.1	789.2	786.1	783.1	785.1
7.5°	758.6	761.6	758.6	756.5	757.5
10°	722.8	720.8	717.7	715.7	718.7
12.5°	672.8	671.8	669.7	668.7	668.7
15°	618.7	621.8	619.7	618.7	622.8
17.5°	566.6	569.7	567.6	564.6	562.5
20°	519.7	520.7	517.6	512.5	507.4
22.5°	471.7	472.7	467.6	465.6	465.6
25°	420.6	423.7	422.7	417.6	419.6
27.5°	365.5	370.6	372.6	366.5	366.5
30°	309.3	313.4	321.6	313.4	312.4
32.5°	254.2	260.3	264.4	263.4	260.3
35°	204.2	210.3	212.4	212.4	210.3
37.5°	159.3	165.4	167.4	169.5	169.5
40°	124.6	127.6	129.7	132.7	133.7
42.5°	93.9	97.0	100.1	102.1	101.1
45°	70.4	72.5	74.5	76.6	77.6
47.5°	53.1	53.1	55.1	57.2	57.2
50°	37.8	39.8	40.8	41.9	42.9
52.5°	25.5	26.5	28.6	29.6	28.6
55°	14.3	16.3	18.4	18.4	17.4
57.5°	6.1	9.2	10.2	10.2	8.2
60°	2.0	4.1	4.1	5.1	3.1
62.5°	1.0	2.0	2.0	2.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
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)