

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 EU2B10WFL559030D2W 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 EU2B10WFL559030D2W 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: 499.5 lumens
Efficiency: N/A
Efficacy: 48.5 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

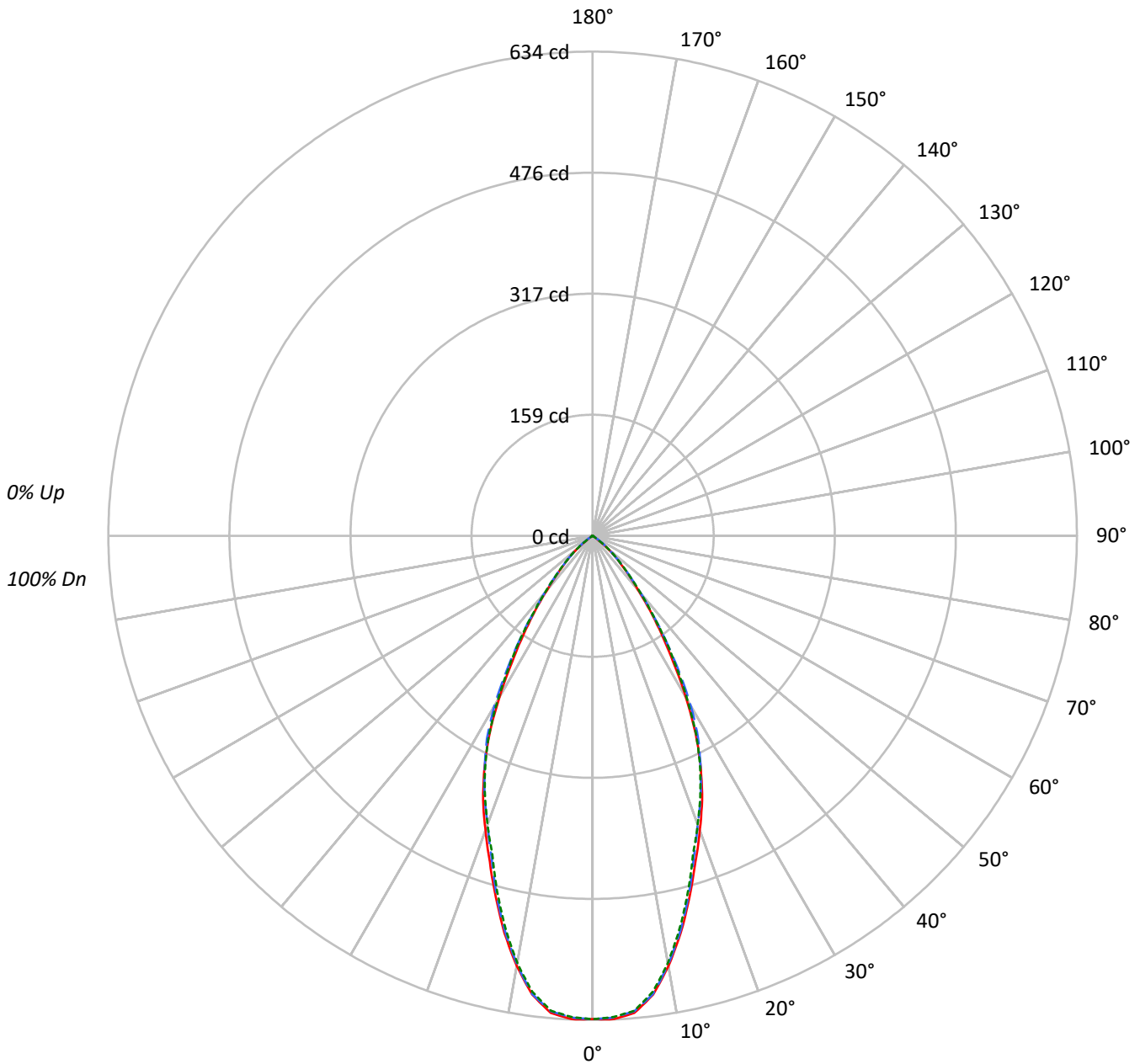
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	245151	245151	245151
5°	243833	242977	242705
10°	225019	224193	223328
15°	196375	194931	193447
20°	169045	165789	165789
25°	143133	142833	142192
30°	108999	114859	110967
35°	74192	78637	77975
40°	46823	49401	48997
45°	28923	29307	29690
50°	14824	16572	16150
55°	1958	5875	2431
60°	542	542	542
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°	57.9	11.6
10°-20°	135.3	27.1
20°-30°	151.9	30.4
30°-40°	103.1	20.6
40°-50°	43.1	8.6
50°-60°	8.1	1.6
60°-70°	0.1	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°	345.1	69.1
0°-40°	448.2	89.7
0°-60°	499.4	100.0
0°-90°	499.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	499.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	633	633	633	633	633	
5°	627	626	625	624	624	58
15°	490	488	486	482	482	137
25°	335	338	334	333	333	152
35°	157	162	166	163	165	99
45°	53	52	54	54	54	42
55°	3	6	9	6	4	6
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°	632.9	632.9	632.9	632.9	632.9
2.5°	633.6	632.2	631.5	630.7	630.7
5°	627.1	626.3	624.9	623.5	624.2
7.5°	606.1	605.4	605.4	602.5	602.5
10°	572.1	572.1	570.0	570.0	567.8
12.5°	533.0	530.2	530.2	528.0	526.5
15°	489.7	488.2	486.1	481.7	482.4
17.5°	447.7	444.8	440.5	438.3	436.9
20°	410.1	409.4	402.2	400.7	402.2
22.5°	374.7	375.4	369.6	368.2	368.2
25°	334.9	337.8	334.2	333.4	332.7
27.5°	292.2	297.3	299.4	294.4	293.7
30°	243.7	252.5	256.8	251.7	248.1
32.5°	196.7	205.4	209.8	206.1	204.0
35°	156.9	162.0	166.3	162.7	164.9
37.5°	123.0	125.9	127.3	127.3	127.3
40°	92.6	95.5	97.7	98.3	96.9
42.5°	70.1	71.6	73.0	73.8	73.0
45°	52.8	52.1	53.5	54.2	54.2
47.5°	38.3	38.3	39.1	39.8	39.8
50°	24.6	26.0	27.5	26.8	26.8
52.5°	10.9	15.2	18.1	15.2	12.3
55°	2.9	6.5	8.7	6.5	3.6
57.5°	0.7	2.1	2.9	2.1	1.5
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.0	0.0	0.0	0.7
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)