

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 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 EU2B10WFL559030D2W 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

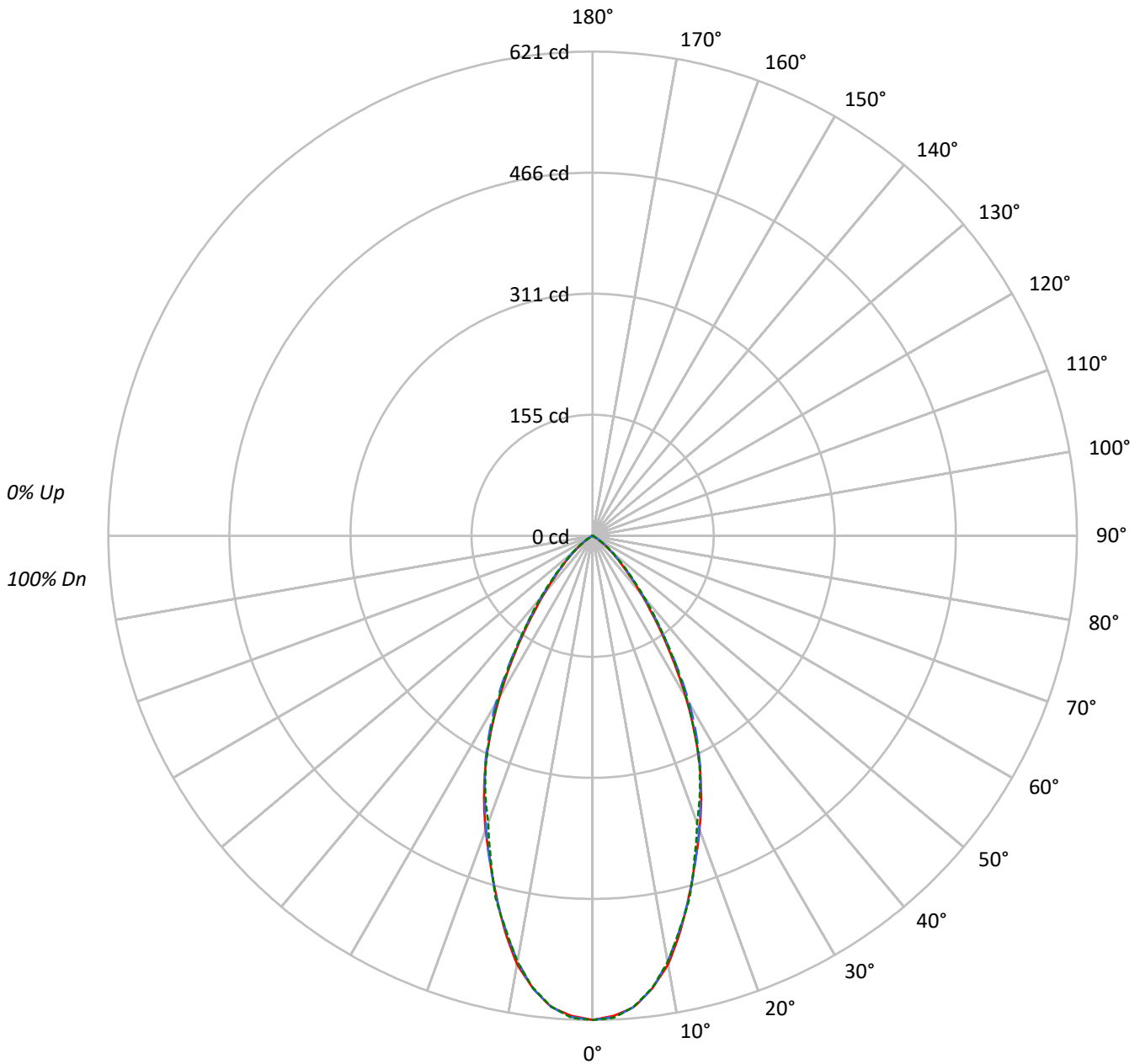
Lumens per Lamp: N/A
Luminaire Lumens: 499.5 lumens
Efficiency: N/A
Efficacy: 48.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	240542	240542	240542
5°	235939	235939	235667
10°	219473	217939	218215
15°	191522	191843	192766
20°	165335	164717	161461
25°	138773	139457	138431
30°	106808	111012	107836
35°	74523	77502	76746
40°	48592	50615	52182
45°	29800	31553	32813
50°	17596	18982	19946
55°	7428	9590	9049
60°	1240	2479	1859
65°	733	733	733
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°	56.3	11.3
10°-20°	133.1	26.6
20°-30°	147.4	29.5
30°-40°	102.6	20.5
40°-50°	46.2	9.2
50°-60°	13.0	2.6
60°-70°	0.9	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°	336.8	67.4
0°-40°	439.4	88.0
0°-60°	498.6	99.8
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°	621	621	621	621	621	
5°	607	609	607	604	606	56
15°	478	480	478	478	481	133
25°	325	327	326	322	324	147
35°	158	162	164	164	162	99
45°	54	56	58	59	60	44
55°	11	13	14	14	13	11
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	621.0	621.0	621.0	621.0	621.0
2.5°	616.3	619.5	617.9	617.9	618.7
5°	606.8	609.2	606.8	604.5	606.1
7.5°	585.6	587.9	585.6	584.0	584.8
10°	558.0	556.4	554.1	552.5	554.8
12.5°	519.4	518.6	517.0	516.2	516.2
15°	477.6	480.0	478.4	477.6	480.7
17.5°	437.4	439.7	438.2	435.8	434.3
20°	401.1	401.9	399.6	395.6	391.7
22.5°	364.1	364.9	360.9	359.4	359.4
25°	324.7	327.0	326.3	322.3	323.9
27.5°	282.1	286.1	287.7	282.9	282.9
30°	238.8	242.0	248.2	242.0	241.1
32.5°	196.2	201.0	204.1	203.3	201.0
35°	157.6	162.3	163.9	163.9	162.3
37.5°	123.0	127.7	129.3	130.8	130.8
40°	96.1	98.5	100.1	102.5	103.2
42.5°	72.5	74.9	77.2	78.8	78.0
45°	54.4	55.9	57.6	59.1	59.9
47.5°	41.0	41.0	42.5	44.1	44.1
50°	29.2	30.7	31.5	32.3	33.1
52.5°	19.7	20.5	22.0	22.9	22.0
55°	11.0	12.6	14.2	14.2	13.4
57.5°	4.7	7.1	7.9	7.9	6.3
60°	1.6	3.2	3.2	3.9	2.4
62.5°	0.8	1.6	1.6	1.6	0.8
65°	0.8	0.8	0.8	0.8	0.8
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)