

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 EU2B10WFL559040 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 EU2B10WFL559040 2LBDSQC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

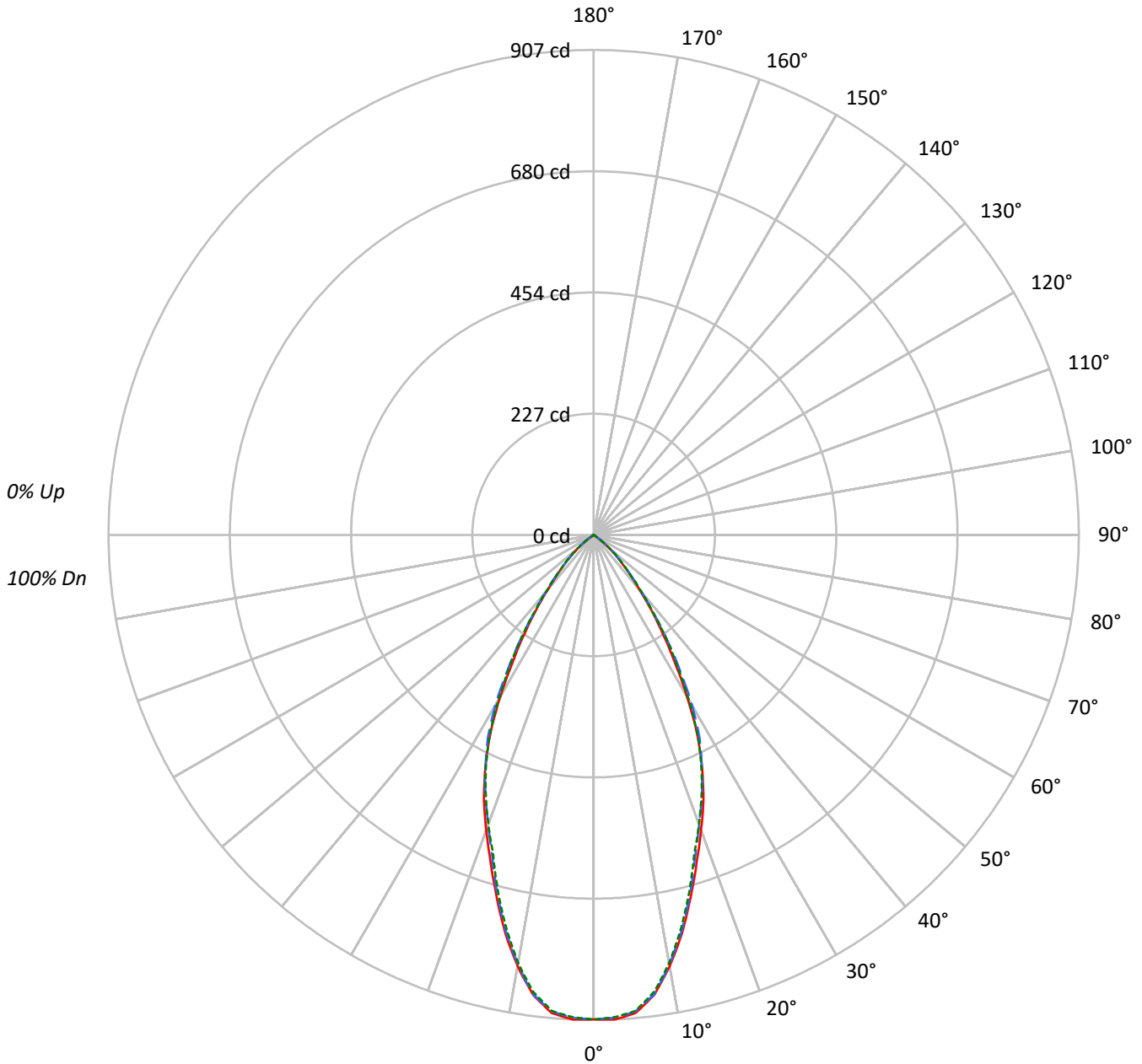
Lumens per Lamp: N/A
Luminaire Lumens: 715.1 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): 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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87					87			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81					81			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75					75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70					70			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65					65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61					61			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57					57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54					54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51					51			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	350935	350935	350935
5°	349049	347843	347455
10°	322130	320911	319692
15°	281108	279023	276978
20°	242006	237306	237306
25°	204890	204463	203565
30°	156052	164416	158870
35°	106252	112636	111643
40°	66998	70689	70183
45°	41413	41961	42563
50°	21212	23682	23080
55°	2769	8374	3512
60°	775	775	775
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°	82.9	11.6
10°-20°	193.7	27.1
20°-30°	217.4	30.4
30°-40°	147.7	20.6
40°-50°	61.7	8.6
50°-60°	11.5	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°	494.0	69.1
0°-40°	641.6	89.7
0°-60°	714.9	100.0
0°-90°	715.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	898	897	895	893	894	83
15°	701	699	696	690	691	196
25°	479	484	478	477	476	217
35°	225	232	238	233	236	142
45°	76	75	77	78	78	60
55°	4	9	12	9	5	8
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°	906.0	906.0	906.0	906.0	906.0
2.5°	907.1	905.0	904.0	902.9	902.9
5°	897.7	896.7	894.6	892.6	893.6
7.5°	867.7	866.7	866.7	862.5	862.5
10°	819.0	819.0	815.9	815.9	812.8
12.5°	763.1	759.0	759.0	755.9	753.8
15°	701.0	698.9	695.8	689.6	690.7
17.5°	640.9	636.8	630.6	627.5	625.4
20°	587.1	586.1	575.7	573.6	575.7
22.5°	536.4	537.4	529.1	527.0	527.0
25°	479.4	483.6	478.4	477.3	476.3
27.5°	418.3	425.6	428.7	421.4	420.4
30°	348.9	361.4	367.6	360.3	355.2
32.5°	281.6	294.1	300.3	295.1	292.0
35°	224.7	231.9	238.2	233.0	236.1
37.5°	176.0	180.2	182.2	182.2	182.2
40°	132.5	136.7	139.8	140.8	138.8
42.5°	100.4	102.5	104.6	105.6	104.6
45°	75.6	74.6	76.6	77.7	77.7
47.5°	54.9	54.9	55.9	57.0	57.0
50°	35.2	37.3	39.3	38.3	38.3
52.5°	15.5	21.7	25.9	21.7	17.6
55°	4.1	9.3	12.4	9.3	5.2
57.5°	1.0	3.1	4.1	3.1	2.1
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)