

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 EU2B10WFL559050 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 EU2B10WFL559050 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

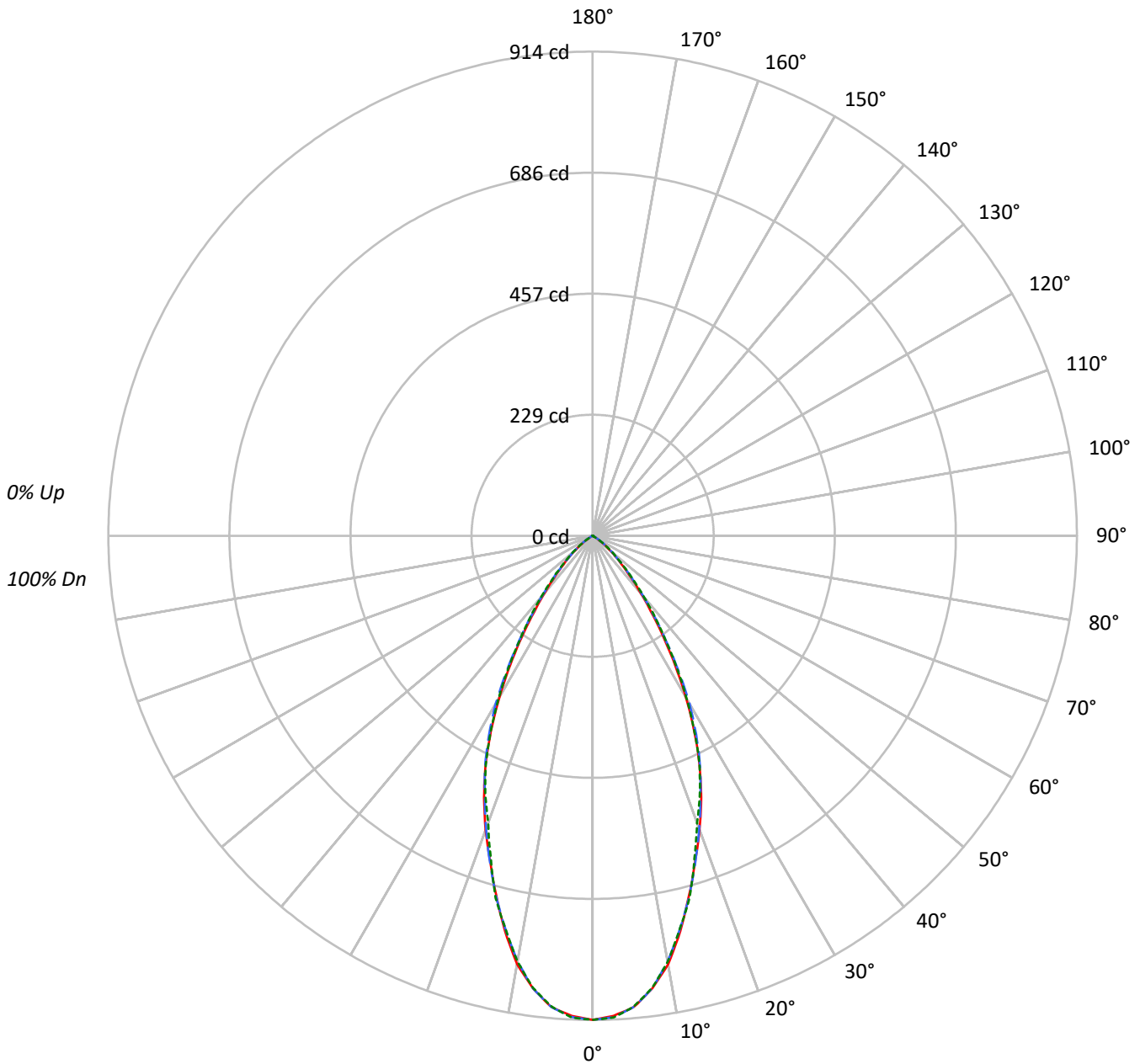
Lumens per Lamp: N/A
Luminaire Lumens: 735.1 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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°	353995	353995	353995
5°	347221	347221	346794
10°	322956	320675	321147
15°	281830	282311	283715
20°	243325	242377	237595
25°	204206	205232	203736
30°	157170	163387	158736
35°	109704	114054	112967
40°	71549	74481	76807
45°	43823	46398	48260
50°	25852	27961	29347
55°	10940	14114	13304
60°	1782	3564	2711
65°	1100	1100	1100
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°	82.8	11.3
10°-20°	195.9	26.6
20°-30°	217.0	29.5
30°-40°	151.0	20.5
40°-50°	68.0	9.2
50°-60°	19.2	2.6
60°-70°	1.3	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°	495.6	67.4
0°-40°	646.6	88.0
0°-60°	733.8	99.8
0°-90°	735.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	735.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	893	896	893	890	892	83
15°	703	706	704	703	708	196
25°	478	481	480	474	477	217
35°	232	239	241	241	239	146
45°	80	82	85	87	88	65
55°	16	19	21	21	20	16
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°	913.9	913.9	913.9	913.9	913.9
2.5°	907.0	911.6	909.3	909.3	910.4
5°	893.0	896.5	893.0	889.6	891.9
7.5°	861.7	865.2	861.7	859.4	860.6
10°	821.1	818.8	815.3	813.0	816.5
12.5°	764.3	763.1	760.8	759.7	759.7
15°	702.8	706.3	704.0	702.8	707.5
17.5°	643.7	647.2	644.8	641.4	639.0
20°	590.3	591.5	588.0	582.2	576.4
22.5°	535.8	537.0	531.2	528.9	528.9
25°	477.8	481.3	480.2	474.4	476.7
27.5°	415.2	421.0	423.3	416.4	416.4
30°	351.4	356.1	365.3	356.1	354.9
32.5°	288.8	295.7	300.4	299.2	295.7
35°	232.0	238.9	241.2	241.2	238.9
37.5°	180.9	187.9	190.2	192.5	192.5
40°	141.5	145.0	147.3	150.8	151.9
42.5°	106.7	110.2	113.7	116.0	114.8
45°	80.0	82.3	84.7	87.0	88.1
47.5°	60.3	60.3	62.6	64.9	64.9
50°	42.9	45.2	46.4	47.6	48.7
52.5°	29.0	30.2	32.5	33.6	32.5
55°	16.2	18.6	20.9	20.9	19.7
57.5°	7.0	10.4	11.6	11.6	9.3
60°	2.3	4.6	4.6	5.8	3.5
62.5°	1.2	2.3	2.3	2.3	1.2
65°	1.2	1.2	1.2	1.2	1.2
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)