

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 EU2B10WFL559727 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 EU2B10WFL559727 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: 581.7 lumens
Efficiency: N/A
Efficacy: 56.5 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

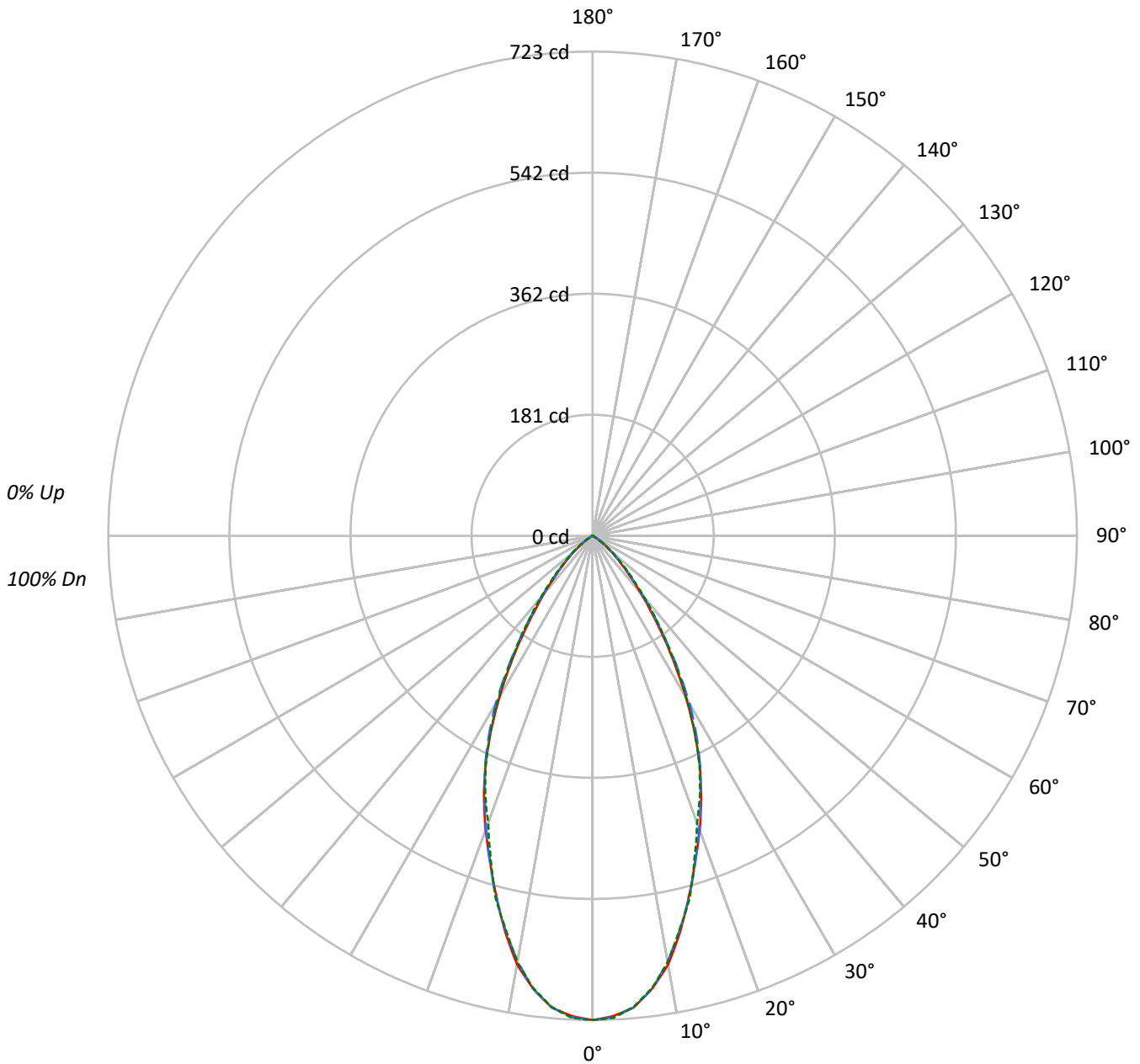
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	280129	280129	280129
5°	274783	274783	274433
10°	255580	253771	254125
15°	223042	223403	224485
20°	192541	191799	188007
25°	161596	162408	161211
30°	124385	129305	125593
35°	86817	90269	89418
40°	56632	58958	60778
45°	34675	36702	38236
50°	20489	22116	23200
55°	8644	11143	10535
60°	1394	2866	2169
65°	825	825	825
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°	65.5	11.3
10°-20°	155.0	26.6
20°-30°	171.7	29.5
30°-40°	119.5	20.5
40°-50°	53.8	9.2
50°-60°	15.2	2.6
60°-70°	1.0	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°	392.2	67.4
0°-40°	511.7	88.0
0°-60°	580.7	99.8
0°-90°	581.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	707	709	707	704	706	66
15°	556	559	557	556	560	155
25°	378	381	380	375	377	171
35°	184	189	191	191	189	116
45°	63	65	67	69	70	51
55°	13	15	16	16	16	13
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°	723.2	723.2	723.2	723.2	723.2
2.5°	717.7	721.4	719.5	719.5	720.4
5°	706.7	709.4	706.7	703.9	705.8
7.5°	681.9	684.7	681.9	680.1	681.0
10°	649.8	647.9	645.2	643.4	646.1
12.5°	604.8	603.9	602.1	601.1	601.1
15°	556.2	558.9	557.1	556.2	559.8
17.5°	509.4	512.1	510.3	507.5	505.7
20°	467.1	468.1	465.3	460.7	456.1
22.5°	424.0	424.9	420.3	418.5	418.5
25°	378.1	380.9	380.0	375.4	377.2
27.5°	328.6	333.1	335.0	329.5	329.5
30°	278.1	281.8	289.1	281.8	280.8
32.5°	228.5	234.0	237.7	236.8	234.0
35°	183.6	189.1	190.9	190.9	189.1
37.5°	143.2	148.7	150.5	152.3	152.3
40°	112.0	114.7	116.6	119.3	120.2
42.5°	84.4	87.2	89.9	91.8	90.9
45°	63.3	65.2	67.0	68.8	69.8
47.5°	47.7	47.7	49.6	51.4	51.4
50°	34.0	35.8	36.7	37.6	38.5
52.5°	22.9	23.9	25.7	26.6	25.7
55°	12.8	14.7	16.5	16.5	15.6
57.5°	5.5	8.3	9.2	9.2	7.3
60°	1.8	3.7	3.7	4.6	2.8
62.5°	0.9	1.8	1.8	1.8	0.9
65°	0.9	0.9	0.9	0.9	0.9
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)