

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 EU2B10WFL558027 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 EU2B10WFL558027 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: 820.5 lumens
Efficiency: N/A
Efficacy: 79.7 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

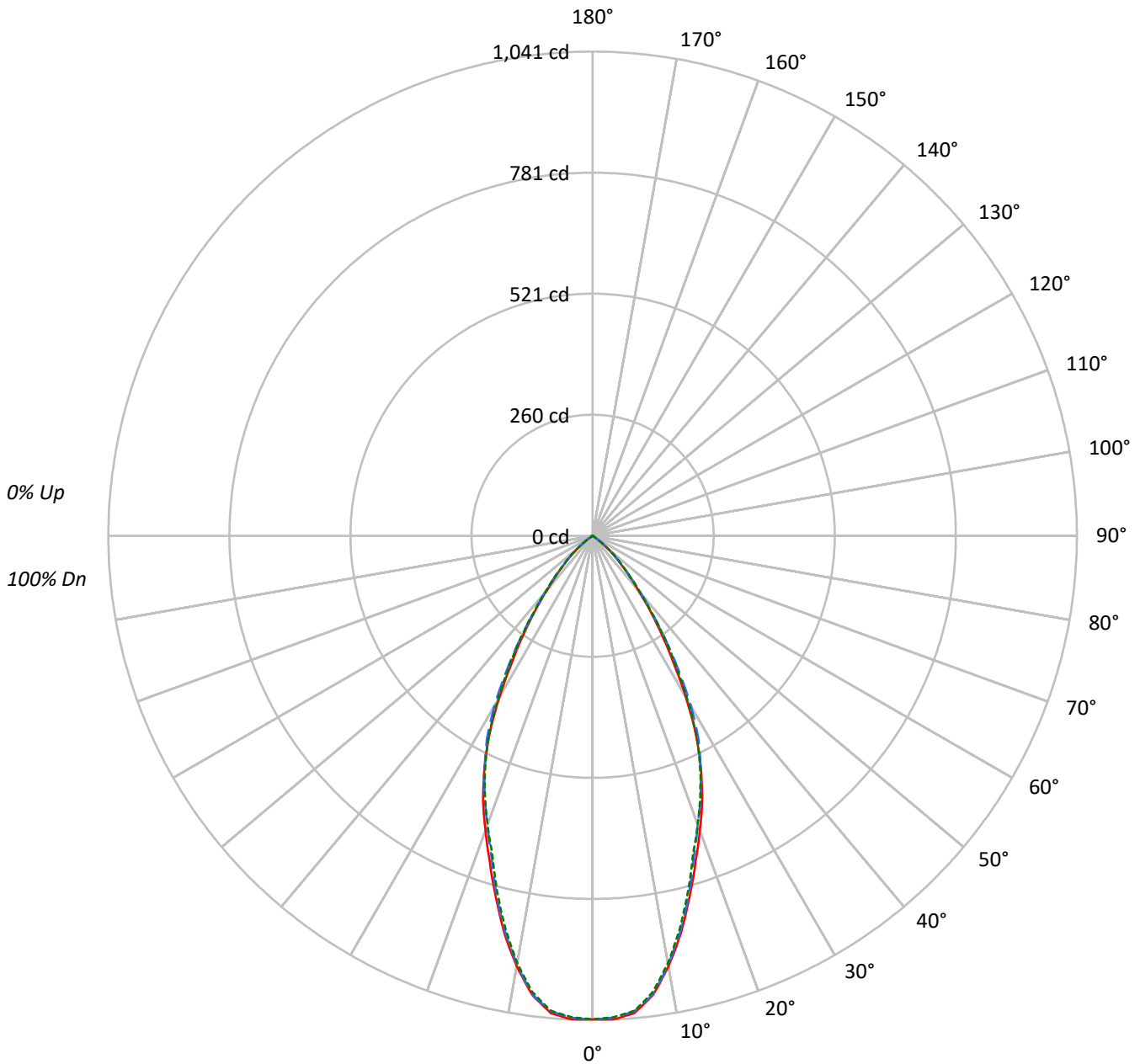
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	402685	402685	402685
5°	400529	399129	398663
10°	369643	368228	366812
15°	322532	320166	317760
20°	277661	272303	272303
25°	235107	234594	233568
30°	179086	188658	182262
35°	121904	129233	128098
40°	76908	81105	80499
45°	47493	48151	48808
50°	24345	27177	26515
55°	3242	9657	3984
60°	930	930	930
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°	95.1	11.6
10°-20°	222.3	27.1
20°-30°	249.4	30.4
30°-40°	169.4	20.6
40°-50°	70.8	8.6
50°-60°	13.2	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°	566.8	69.1
0°-40°	736.2	89.7
0°-60°	820.3	100.0
0°-90°	820.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	820.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1030	1029	1026	1024	1025	95
15°	804	802	798	791	792	224
25°	550	555	549	548	546	249
35°	258	266	273	267	271	163
45°	87	86	88	89	89	69
55°	5	11	14	11	6	10
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°	1039.6	1039.6	1039.6	1039.6	1039.6
2.5°	1040.8	1038.4	1037.2	1036.0	1036.0
5°	1030.1	1028.9	1026.5	1024.1	1025.3
7.5°	995.6	994.4	994.4	989.7	989.7
10°	939.8	939.8	936.2	936.2	932.6
12.5°	875.6	870.9	870.9	867.3	864.9
15°	804.3	802.0	798.4	791.3	792.4
17.5°	735.4	730.7	723.5	720.0	717.6
20°	673.6	672.5	660.6	658.2	660.6
22.5°	615.4	616.6	607.1	604.7	604.7
25°	550.1	554.8	548.9	547.7	546.5
27.5°	480.0	488.3	491.9	483.5	482.4
30°	400.4	414.6	421.8	413.5	407.5
32.5°	323.2	337.4	344.5	338.6	335.0
35°	257.8	266.1	273.3	267.3	270.9
37.5°	202.0	206.7	209.1	209.1	209.1
40°	152.1	156.8	160.4	161.6	159.2
42.5°	115.2	117.6	120.0	121.2	120.0
45°	86.7	85.5	87.9	89.1	89.1
47.5°	63.0	63.0	64.2	65.3	65.3
50°	40.4	42.8	45.1	44.0	44.0
52.5°	17.8	24.9	29.7	24.9	20.2
55°	4.8	10.7	14.3	10.7	5.9
57.5°	1.2	3.6	4.8	3.6	2.4
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	0.0	0.0	0.0	1.2
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)