

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 EU2B10WFL559027 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 EU2B10WFL559027 2LBDSQC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

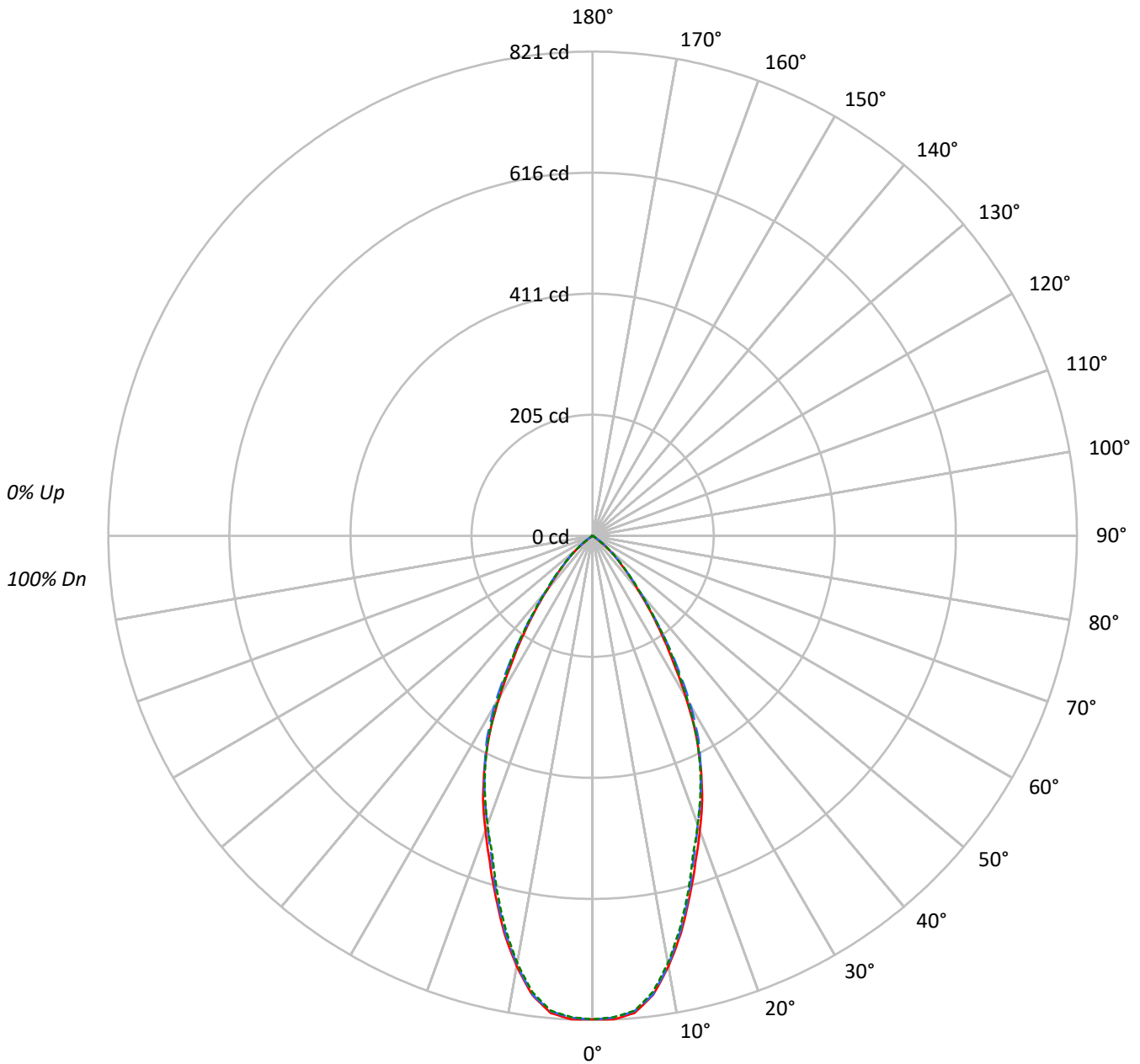
Lumens per Lamp: N/A
Luminaire Lumens: 647.1 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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				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	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°	317585	317585	317585
5°	315882	314793	314404
10°	291530	290429	289288
15°	254361	252516	250631
20°	219005	214759	214759
25°	185401	185017	184205
30°	141247	148762	143752
35°	96133	101902	101003
40°	60627	63964	63509
45°	37469	37962	38510
50°	19223	21453	20910
55°	2499	7564	3174
60°	697	697	697
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°	75.0	11.6
10°-20°	175.3	27.1
20°-30°	196.7	30.4
30°-40°	133.6	20.6
40°-50°	55.9	8.6
50°-60°	10.4	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°	447.0	69.1
0°-40°	580.6	89.7
0°-60°	646.9	100.0
0°-90°	647.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	812	811	810	808	809	75
15°	634	632	630	624	625	177
25°	434	438	433	432	431	196
35°	203	210	216	211	214	129
45°	68	68	69	70	70	54
55°	4	8	11	8	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°	819.9	819.9	819.9	819.9	819.9
2.5°	820.8	818.9	818.0	817.1	817.1
5°	812.4	811.4	809.6	807.7	808.6
7.5°	785.2	784.3	784.3	780.5	780.5
10°	741.2	741.2	738.4	738.4	735.5
12.5°	690.6	686.8	686.8	684.0	682.1
15°	634.3	632.5	629.7	624.0	625.0
17.5°	580.0	576.3	570.6	567.8	565.9
20°	531.3	530.3	521.0	519.1	521.0
22.5°	485.4	486.3	478.8	476.9	476.9
25°	433.8	437.6	432.9	432.0	431.0
27.5°	378.5	385.1	387.9	381.4	380.4
30°	315.8	327.0	332.6	326.1	321.4
32.5°	254.9	266.1	271.7	267.0	264.2
35°	203.3	209.9	215.5	210.8	213.6
37.5°	159.3	163.0	164.9	164.9	164.9
40°	119.9	123.7	126.5	127.4	125.6
42.5°	90.9	92.8	94.6	95.6	94.6
45°	68.4	67.5	69.3	70.3	70.3
47.5°	49.7	49.7	50.6	51.5	51.5
50°	31.9	33.7	35.6	34.7	34.7
52.5°	14.1	19.7	23.4	19.7	15.9
55°	3.7	8.4	11.2	8.4	4.7
57.5°	0.9	2.8	3.7	2.8	1.9
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.0	0.0	0.0	0.9
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)