

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: P225176

Luminaire Tested: **LD2B10D010 EU2B10FL408050 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B10D010 EU2B10FL408050 2LBDSQC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1014.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

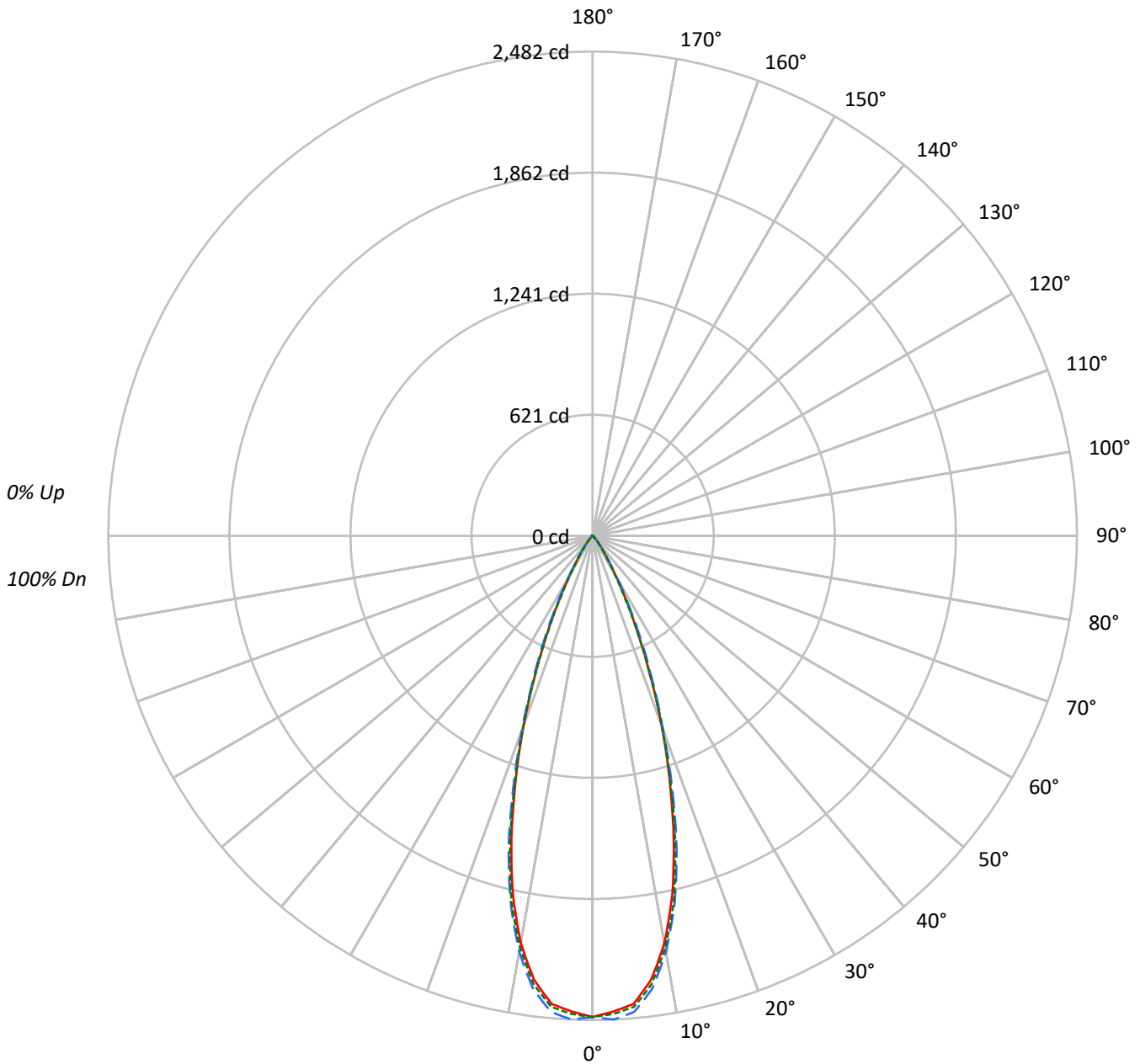
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225176

CATALOG NUMBER: LD2B10D010 EU2B10FL408050 2LBDSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225176

CATALOG NUMBER: LD2B10D010 EU2B10FL408050 2LBDSQC*MB

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	75	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	955583	955583	955583
5°	936681	952778	942591
10°	833566	851462	842770
15°	644022	667281	655651
20°	424860	433928	427127
25°	231730	247672	232927
30°	104303	115395	99965
35°	45016	46340	41092
40°	18861	19518	17445
45°	7560	8326	8326
50°	3314	4158	4158
55°	1891	1891	2769
60°	1085	1085	1085
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225176

CATALOG NUMBER: LD2B10D010 EU2B10FL408050 2LBDSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.0	22.0
10°-20°	443.9	43.8
20°-30°	262.2	25.9
30°-40°	68.3	6.7
40°-50°	13.5	1.3
50°-60°	3.0	0.3
60°-70°	0.3	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°	929.0	91.6
0°-40°	997.3	98.4
0°-60°	1013.8	100.0
0°-90°	1014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2467	2467	2467	2467	2467	
5°	2409	2428	2450	2434	2424	220
15°	1606	1642	1664	1639	1635	436
25°	542	560	580	557	545	256
35°	95	99	98	97	87	67
45°	14	17	15	15	15	13
55°	3	3	3	3	4	3
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P225176

CATALOG NUMBER: LD2B10D010 EU2B10FL408050 2LBDSQC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2467.0	2467.0	2467.0	2467.0	2467.0
2.5°	2440.7	2465.6	2482.1	2468.3	2453.2
5°	2409.0	2428.3	2450.4	2433.8	2424.2
7.5°	2295.9	2324.8	2341.4	2333.1	2317.9
10°	2119.3	2141.3	2164.8	2156.5	2142.7
12.5°	1886.1	1916.4	1938.5	1919.2	1922.0
15°	1606.0	1641.9	1664.0	1639.1	1635.0
17.5°	1309.4	1337.0	1352.1	1337.0	1325.9
20°	1030.7	1047.2	1052.7	1045.8	1036.2
22.5°	761.6	779.5	796.1	779.5	767.1
25°	542.2	560.2	579.5	557.4	545.0
27.5°	365.6	376.7	393.2	372.5	354.6
30°	233.2	245.6	258.0	242.8	223.5
32.5°	147.6	155.9	157.3	154.5	138.0
35°	95.2	99.3	98.0	96.6	86.9
37.5°	60.7	60.7	62.1	60.7	55.2
40°	37.3	40.0	38.6	37.3	34.5
42.5°	22.1	24.8	23.5	23.5	22.1
45°	13.8	16.6	15.2	15.2	15.2
47.5°	9.7	11.0	9.7	9.7	11.0
50°	5.5	6.9	6.9	6.9	6.9
52.5°	4.1	4.1	4.1	4.1	5.5
55°	2.8	2.8	2.8	2.8	4.1
57.5°	2.8	2.8	1.4	1.4	2.8
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	0.0	0.0	0.0	1.4
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)