

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: P225210

Luminaire Tested: **LD2B10D010 EU2B10FL408030 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225210
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 EU2B10FL408030 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: 970.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

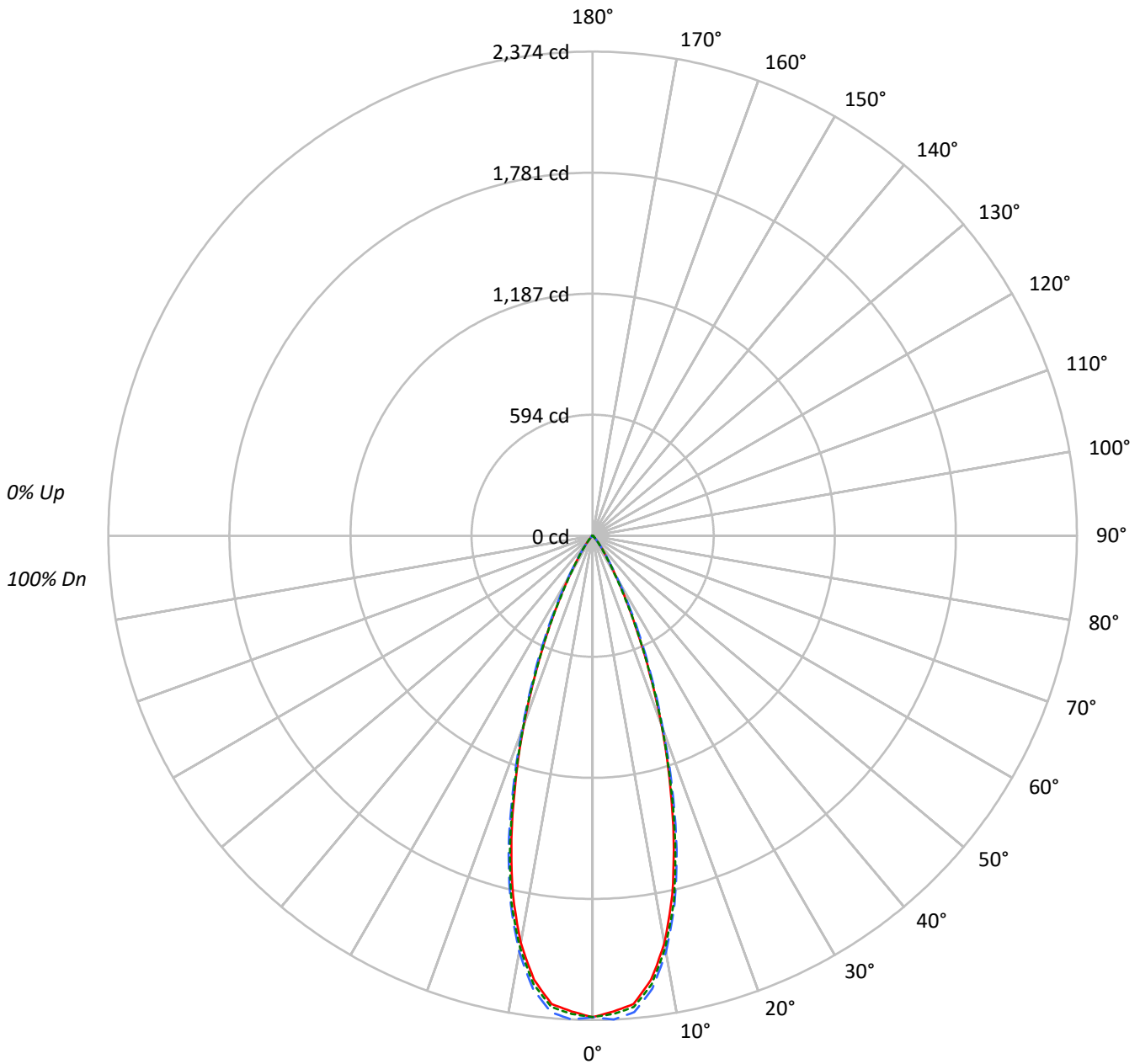
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225210

CATALOG NUMBER: LD2B10D010 EU2B10FL408030 2LBDSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225210

CATALOG NUMBER: LD2B10D010 EU2B10FL408030 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	76	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°	914098	914098	914098
5°	896049	911446	901687
10°	797381	814529	806191
15°	616072	638328	627180
20°	406393	415132	408578
25°	221687	236902	222798
30°	99786	110386	95626
35°	43078	44307	39342
40°	18001	18709	16686
45°	7231	7943	7943
50°	3194	3977	3977
55°	1756	1756	2701
60°	1007	1007	1007
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225210

CATALOG NUMBER: LD2B10D010 EU2B10FL408030 2LBDSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	22.0
10°-20°	424.6	43.8
20°-30°	250.8	25.9
30°-40°	65.3	6.7
40°-50°	12.9	1.3
50°-60°	2.8	0.3
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°	888.7	91.6
0°-40°	954.0	98.4
0°-60°	969.7	100.0
0°-90°	970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2360	2360	2360	2360	2360	
5°	2304	2323	2344	2328	2319	211
15°	1536	1571	1592	1568	1564	417
25°	519	536	554	533	521	244
35°	91	95	94	92	83	64
45°	13	16	14	14	14	12
55°	3	3	3	3	4	3
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



TEST NUMBER: P225210

CATALOG NUMBER: LD2B10D010 EU2B10FL408030 2LBDSQC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2359.9	2359.9	2359.9	2359.9	2359.9
2.5°	2334.8	2358.6	2374.4	2361.2	2346.7
5°	2304.5	2323.0	2344.1	2328.2	2319.0
7.5°	2196.2	2224.0	2239.8	2231.9	2217.4
10°	2027.3	2048.4	2070.9	2062.9	2049.7
12.5°	1804.2	1833.3	1854.4	1835.9	1838.6
15°	1536.3	1570.6	1591.8	1568.0	1564.0
17.5°	1252.5	1278.9	1293.5	1278.9	1268.4
20°	985.9	1001.8	1007.1	1000.5	991.2
22.5°	728.6	745.7	761.6	745.7	733.8
25°	518.7	535.9	554.3	533.2	521.3
27.5°	349.8	360.3	376.2	356.4	339.2
30°	223.1	234.9	246.8	232.3	213.8
32.5°	141.2	149.1	150.5	147.8	132.0
35°	91.1	95.0	93.7	92.4	83.2
37.5°	58.1	58.1	59.4	58.1	52.8
40°	35.6	38.3	37.0	35.6	33.0
42.5°	21.1	23.8	22.4	22.4	21.1
45°	13.2	15.8	14.5	14.5	14.5
47.5°	9.2	10.6	9.2	9.2	10.6
50°	5.3	6.6	6.6	6.6	6.6
52.5°	4.0	4.0	4.0	4.0	5.3
55°	2.6	2.6	2.6	2.6	4.0
57.5°	2.6	2.6	1.3	1.3	2.6
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	0.0	0.0	0.0	1.3
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)