

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: P225202

Luminaire Tested: **LD2B20D010 EU2B20FL409040 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225202
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: LD2B20D010 EU2B20FL409040 2LBDSQC*MB
Description: 2000 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: 1507.0 lumens
Efficiency: N/A
Efficacy: 72.1 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

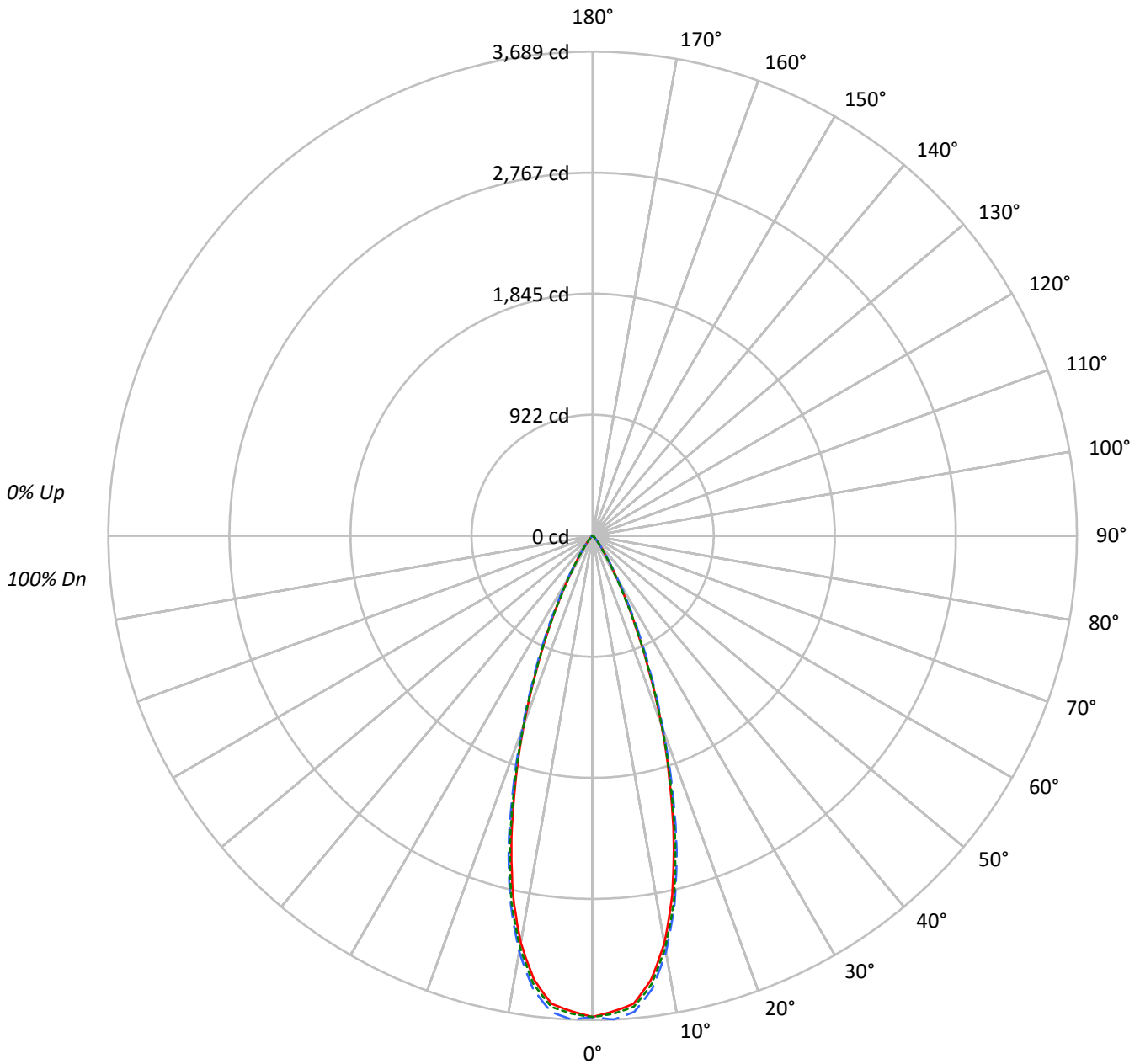
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225202

CATALOG NUMBER: LD2B20D010 EU2B20FL409040 2LBDSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225202

CATALOG NUMBER: LD2B20D010 EU2B20FL409040 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°	1420049	1420049	1420049
5°	1391996	1415908	1400783
10°	1238726	1265354	1252453
15°	957091	991618	974334
20°	631374	644895	634754
25°	344390	368067	346142
30°	154979	171483	148583
35°	66910	68849	61094
40°	28013	29024	25940
45°	11230	12380	12380
50°	4941	6207	6207
55°	2769	2769	4187
60°	1627	1627	1627
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225202

CATALOG NUMBER: LD2B20D010 EU2B20FL409040 2LBDSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	22.0
10°-20°	659.6	43.8
20°-30°	389.6	25.9
30°-40°	101.4	6.7
40°-50°	20.1	1.3
50°-60°	4.4	0.3
60°-70°	0.4	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°	1380.6	91.6
0°-40°	1482.1	98.3
0°-60°	1506.6	100.0
0°-90°	1507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3666	3666	3666	3666	3666	
5°	3580	3609	3642	3617	3603	328
15°	2387	2440	2473	2436	2430	648
25°	806	832	861	828	810	380
35°	142	148	146	144	129	99
45°	20	25	23	23	23	19
55°	4	4	4	4	6	4
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: P225202

CATALOG NUMBER: LD2B20D010 EU2B20FL409040 2LBDSQC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3666.1	3666.1	3666.1	3666.1	3666.1
2.5°	3627.2	3664.1	3688.7	3668.2	3645.6
5°	3580.0	3608.7	3641.5	3616.9	3602.6
7.5°	3411.9	3454.9	3479.5	3467.2	3444.7
10°	3149.4	3182.2	3217.1	3204.8	3184.3
12.5°	2802.9	2848.0	2880.8	2852.1	2856.2
15°	2386.7	2440.0	2472.8	2435.9	2429.7
17.5°	1945.8	1986.8	2009.4	1986.8	1970.4
20°	1531.7	1556.3	1564.5	1554.2	1539.9
22.5°	1131.8	1158.5	1183.1	1158.5	1140.0
25°	805.8	832.5	861.2	828.4	809.9
27.5°	543.4	559.8	584.4	553.6	527.0
30°	346.5	365.0	383.4	360.9	332.2
32.5°	219.4	231.7	233.7	229.6	205.0
35°	141.5	147.6	145.6	143.5	129.2
37.5°	90.2	90.2	92.3	90.2	82.0
40°	55.4	59.5	57.4	55.4	51.3
42.5°	32.8	36.9	34.9	34.9	32.8
45°	20.5	24.6	22.6	22.6	22.6
47.5°	14.4	16.4	14.4	14.4	16.4
50°	8.2	10.3	10.3	10.3	10.3
52.5°	6.2	6.2	6.2	6.2	8.2
55°	4.1	4.1	4.1	4.1	6.2
57.5°	4.1	4.1	2.1	2.1	4.1
60°	2.1	2.1	2.1	2.1	2.1
62.5°	2.1	0.0	0.0	0.0	2.1
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)