

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: P224677

Luminaire Tested: **LD2B20D010 EU2B20FL408035 2LBDLC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL408035 2LBDLC*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1741.9 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

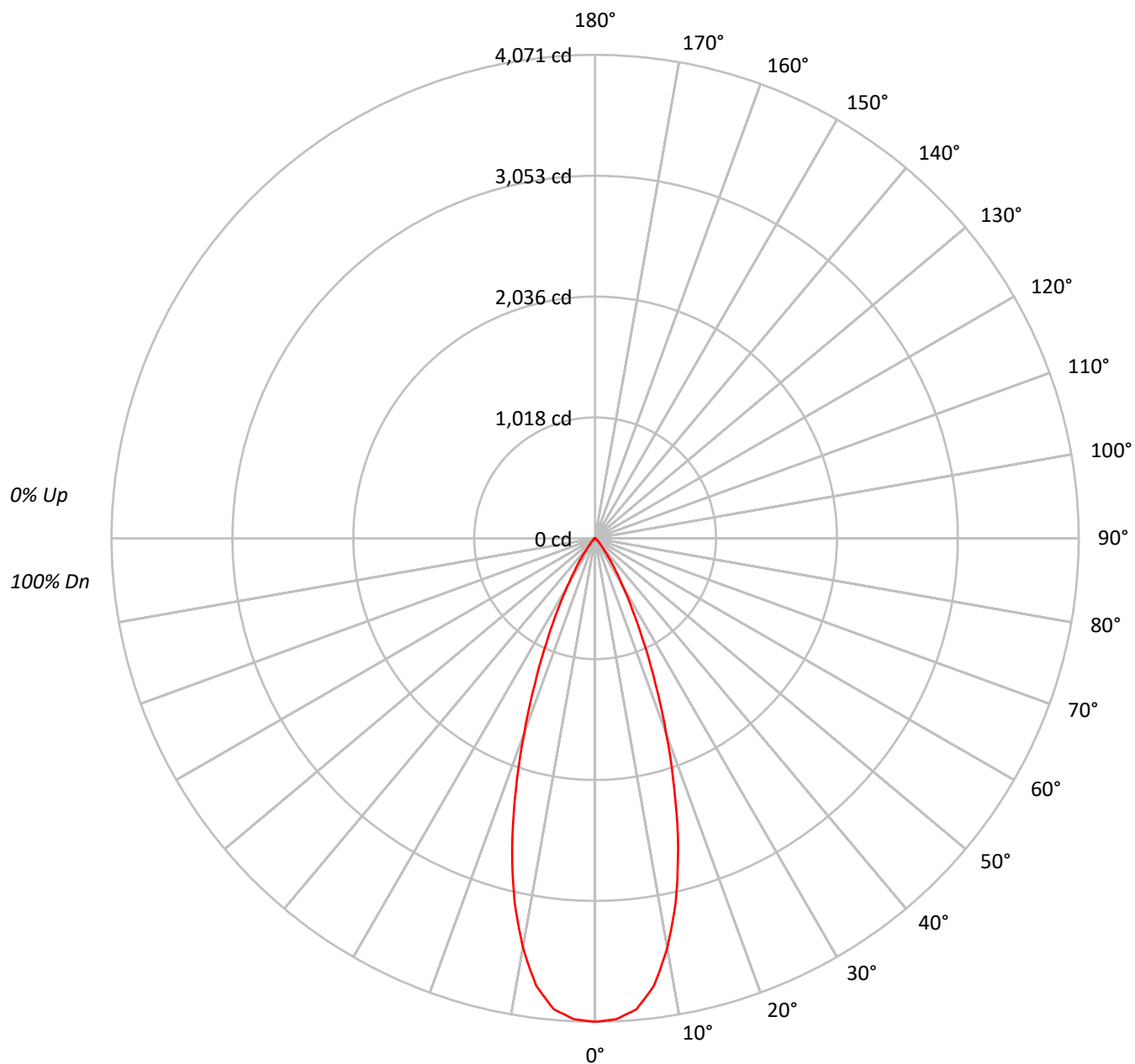
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224677

CATALOG NUMBER: LD2B20D010 EU2B20FL408035 2LBDLC*MW

Luminous Intensity Polar Plot





TEST NUMBER: P224677

CATALOG NUMBER: LD2B20D010 EU2B20FL408035 2LBDLC*MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10			50	30	10			50
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			99
2	110	106	102	99		108	104	101	98		101	98	96			98	96	94			95
3	105	100	96	93		104	99	95	92		96	93	90			94	91	89			92
4	101	95	90	87		100	94	90	86		92	88	85			90	87	85			88
5	98	91	86	82		96	90	85	82		88	84	81			86	83	80			85
6	94	86	82	78		93	86	81	78		84	80	77			83	79	77			82
7	90	83	78	74		89	82	77	74		81	77	74			80	76	73			79
8	87	79	74	71		86	79	74	71		78	74	71			77	73	70			76
9	84	76	71	68		83	76	71	68		75	71	68			74	70	67			73
10	81	73	68	65		80	73	68	65		72	68	65			71	68	65			71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1576963
5°	1548226
10°	1376310
15°	1082406
20°	720287
25°	413499
30°	208874
35°	98261
40°	39541
45°	19611
50°	10787
55°	7564
60°	6895
65°	4124
70°	5096
75°	3292
80°	4907
85°	0



TEST NUMBER: P224677

CATALOG NUMBER: LD2B20D010 EU2B20FL408035 2LBDLC*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.7	20.9
10°-20°	731.2	42.0
20°-30°	454.9	26.1
30°-40°	139.9	8.0
40°-50°	30.7	1.8
50°-60°	10.9	0.6
60°-70°	5.5	0.3
70°-80°	3.2	0.2
80°-90°	0.9	0.1
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°	1550.7	89.0
0°-40°	1690.6	97.1
0°-60°	1732.2	99.4
0°-90°	1741.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1741.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4071	
5°	3982	365
15°	2699	731
25°	968	455
35°	208	140
45°	36	31
55°	11	11
65°	4	6
75°	2	3
85°	0	1
90°	0	



TEST NUMBER: P224677

CATALOG NUMBER: LD2B20D010 EU2B20FL408035 2LBDLC*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4071.2
2.5°	4053.3
5°	3981.8
7.5°	3800.8
10°	3499.2
12.5°	3137.2
15°	2699.2
17.5°	2221.1
20°	1747.4
22.5°	1325.0
25°	967.5
27.5°	681.5
30°	467.0
32.5°	315.1
35°	207.8
37.5°	125.1
40°	78.2
42.5°	53.6
45°	35.8
47.5°	24.6
50°	17.9
52.5°	15.6
55°	11.2
57.5°	8.9
60°	8.9
62.5°	6.7
65°	4.5
67.5°	4.5
70°	4.5
72.5°	4.5
75°	2.2
77.5°	2.2
80°	2.2
82.5°	2.2
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)