

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: P224327

Luminaire Tested: **LD2B20D010 EU2B20FL409024 2LBDSQLC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224327
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 EU2B20FL409024 2LBDSQLC*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1179.8 lumens
Efficiency: N/A
Efficacy: 56.4 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

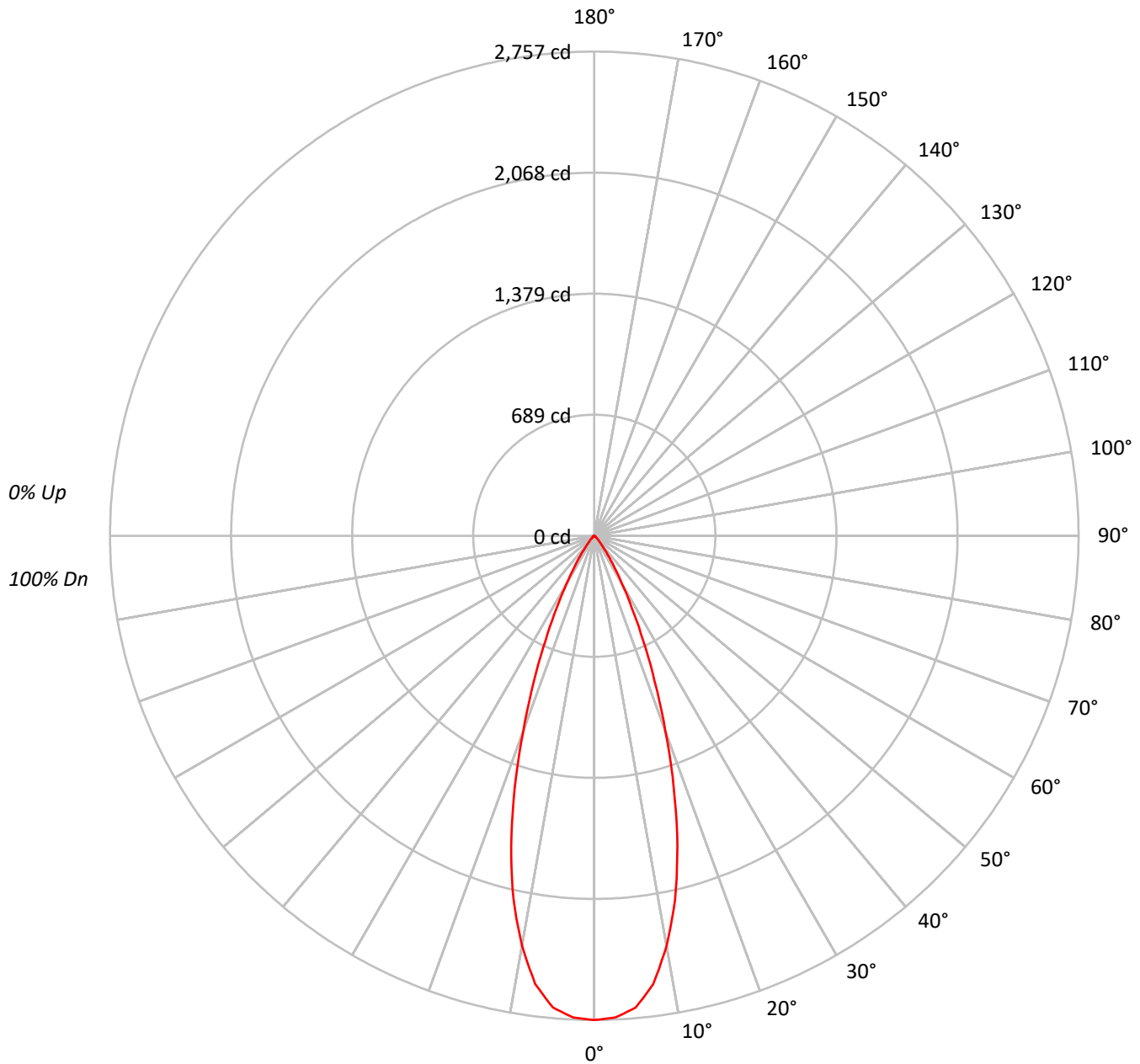
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224327

CATALOG NUMBER: LD2B20D010 EU2B20FL409024 2LBDSQLC*MW

Luminous Intensity Polar Plot





TEST NUMBER: P224327

CATALOG NUMBER: LD2B20D010 EU2B20FL409024 2LBDSQLC*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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			95
2	110	106	102	99		108	104	101	98		101	98	96			98	96	94			91
3	105	100	96	93		104	99	95	92		96	93	90			94	91	89			86
4	101	95	90	87		100	94	90	86		92	88	85			90	87	85			82
5	98	91	86	82		96	90	85	82		88	84	81			86	83	80			79
6	94	87	82	78		93	86	81	78		84	80	77			83	80	77			75
7	90	83	78	74		89	82	77	74		81	77	74			80	76	73			72
8	87	79	74	71		86	79	74	71		78	74	71			77	73	70			69
9	84	76	71	68		83	76	71	68		75	71	68			74	70	67			66
10	81	73	68	65		80	73	68	65		72	68	65			71	68	65			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1068068
5°	1048624
10°	932172
15°	733127
20°	487845
25°	280068
30°	141471
35°	66532
40°	26799
45°	13257
50°	7292
55°	5132
60°	4726
65°	2750
70°	3398
75°	2245
80°	3346
85°	0



TEST NUMBER: P224327

CATALOG NUMBER: LD2B20D010 EU2B20FL409024 2LBDSQLC*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	20.9
10°-20°	495.2	42.0
20°-30°	308.1	26.1
30°-40°	94.7	8.0
40°-50°	20.8	1.8
50°-60°	7.4	0.6
60°-70°	3.7	0.3
70°-80°	2.2	0.2
80°-90°	0.6	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°	1050.3	89.0
0°-40°	1145.0	97.1
0°-60°	1173.3	99.4
0°-90°	1179.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2757	
5°	2697	247
15°	1828	495
25°	655	308
35°	141	95
45°	24	21
55°	8	7
65°	3	4
75°	2	2
85°	0	1
90°	0	



TEST NUMBER: P224327

CATALOG NUMBER: LD2B20D010 EU2B20FL409024 2LBDSQLC*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2757.4
2.5°	2745.3
5°	2696.9
7.5°	2574.3
10°	2370.0
12.5°	2124.8
15°	1828.2
17.5°	1504.3
20°	1183.5
22.5°	897.5
25°	655.3
27.5°	461.6
30°	316.3
32.5°	213.4
35°	140.7
37.5°	84.8
40°	53.0
42.5°	36.3
45°	24.2
47.5°	16.6
50°	12.1
52.5°	10.6
55°	7.6
57.5°	6.1
60°	6.1
62.5°	4.5
65°	3.0
67.5°	3.0
70°	3.0
72.5°	3.0
75°	1.5
77.5°	1.5
80°	1.5
82.5°	1.5
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)