

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: P224380

Luminaire Tested: **LD2B20D010 EU2B20FL408027 2LBDSQC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL408027 2LBDSQC*MMS
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1737.4 lumens
Efficiency: N/A
Efficacy: 83.1 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

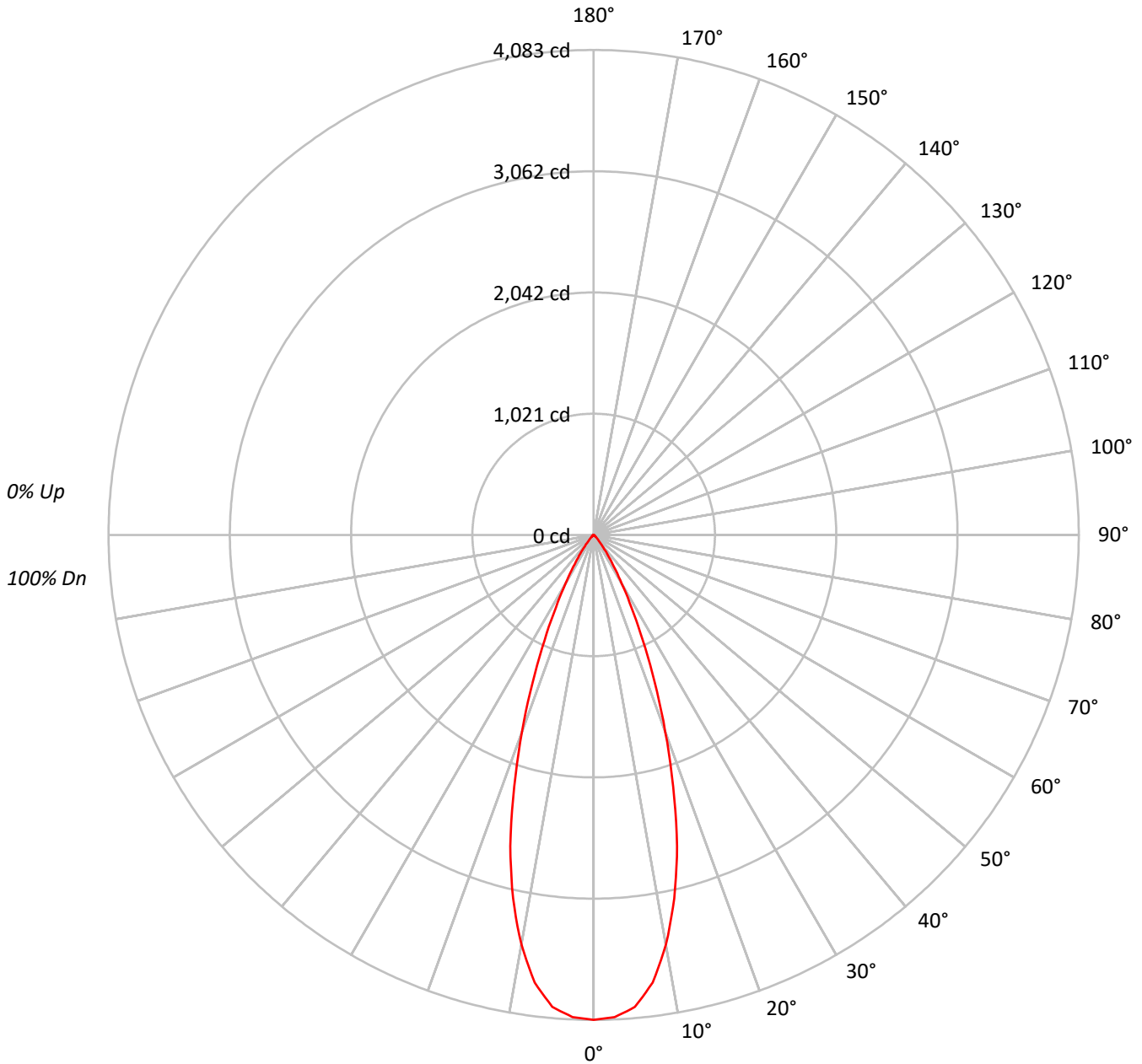
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224380

CATALOG NUMBER: LD2B20D010 EU2B20FL408027 2LBDSQC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P224380

CATALOG NUMBER: LD2B20D010 EU2B20FL408027 2LBDSQC*MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	106	102	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91			91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87			87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83			83
5	98	91	86	83	96	90	86	82	88	85	82	87	83	81	85	83	80	79			79
6	94	87	82	78	93	86	82	78	85	81	78	83	80	77	82	79	77	76			76
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72			72
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69			69
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67			67
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1581534
5°	1551142
10°	1377884
15°	1087379
20°	725233
25°	417431
30°	211424
35°	99112
40°	40603
45°	18296
50°	9401
55°	6010
60°	3486
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224380

CATALOG NUMBER: LD2B20D010 EU2B20FL408027 2LBDSQC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.1	21.0
10°-20°	732.7	42.2
20°-30°	458.9	26.4
30°-40°	142.0	8.2
40°-50°	29.3	1.7
50°-60°	8.2	0.5
60°-70°	1.1	0.1
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°	1556.8	89.6
0°-40°	1698.9	97.8
0°-60°	1736.4	99.9
0°-90°	1737.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1737.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4083	
5°	3989	365
15°	2712	733
25°	977	459
35°	210	142
45°	33	29
55°	9	8
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224380

CATALOG NUMBER: LD2B20D010 EU2B20FL408027 2LBDSQC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	4083.0
2.5°	4062.9
5°	3989.3
7.5°	3802.0
10°	3503.2
12.5°	3135.3
15°	2711.6
17.5°	2223.2
20°	1759.4
22.5°	1338.0
25°	976.7
27.5°	686.8
30°	472.7
32.5°	316.7
35°	209.6
37.5°	131.6
40°	80.3
42.5°	51.3
45°	33.4
47.5°	22.3
50°	15.6
52.5°	11.1
55°	8.9
57.5°	6.7
60°	4.5
62.5°	2.2
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)