

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: P223509

Luminaire Tested: **LD2B05D010 EU2B05NFL258027 2LBDL*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05NFL258027 2LBDL*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 703.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

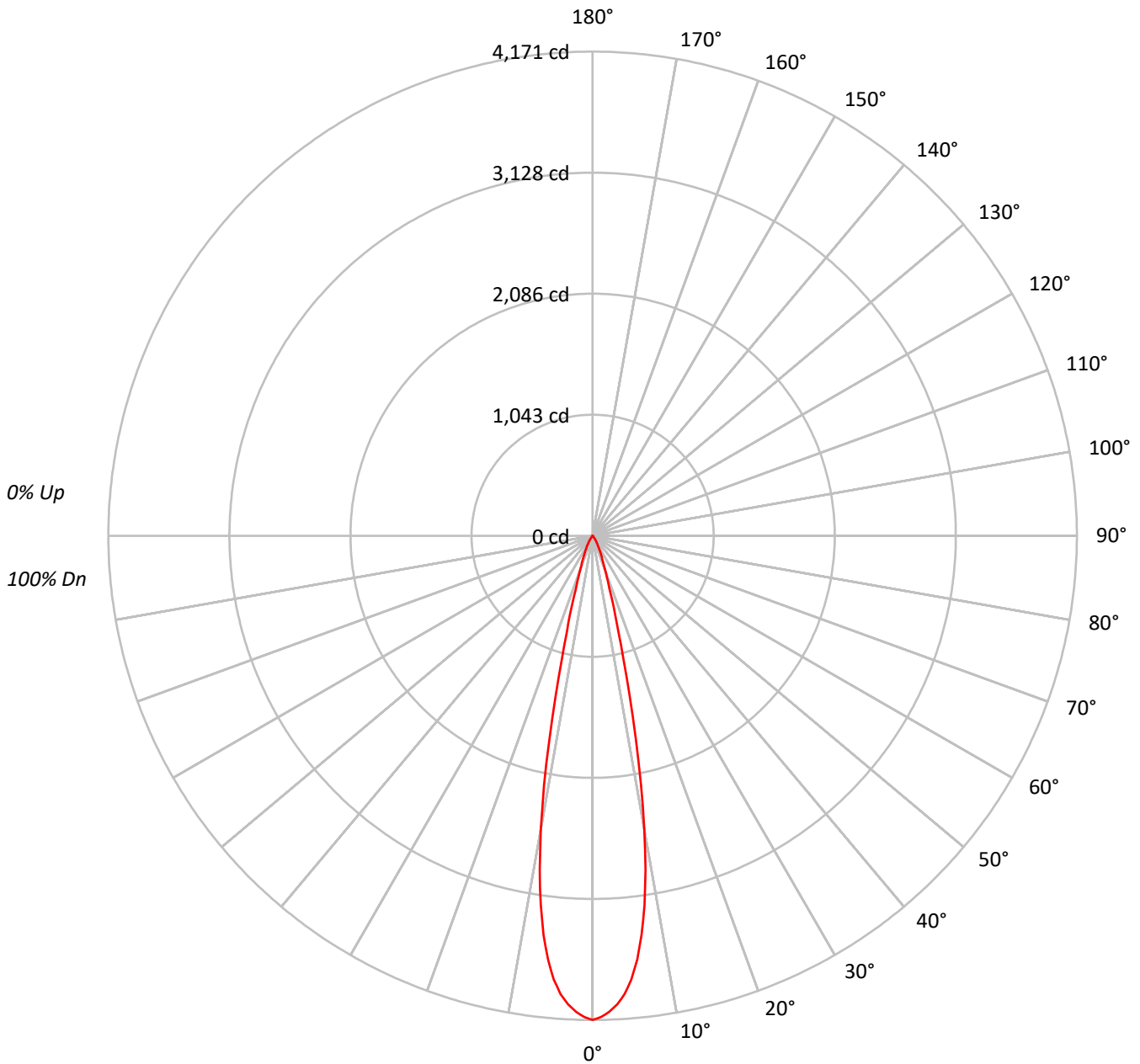
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223509

CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDL*MW

Luminous Intensity Polar Plot





TEST NUMBER: P223509

CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDL*MW

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	100	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97	97
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	95	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92	92	92	92
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	90	90	90
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	88	88	88
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86	86	86	86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84	84	84	84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	82	82	82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	80	80	80
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79	79	79	79

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1615465
5°	1491613
10°	1009617
15°	343505
20°	126176
25°	66886
30°	34395
35°	16030
40°	5259
45°	2629
50°	1265
55°	473
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223509

CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDL*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.3	46.4
10°-20°	274.4	39.0
20°-30°	75.3	10.7
30°-40°	21.9	3.1
40°-50°	4.1	0.6
50°-60°	0.9	0.1
60°-70°	0.1	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°	676.0	96.2
0°-40°	697.9	99.3
0°-60°	702.9	100.0
0°-90°	703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	703.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4171	
5°	3836	326
15°	857	274
25°	156	75
35°	34	22
45°	5	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223509

CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDL*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4170.6
1°	4146.4
2°	4103.5
3°	4041.8
4°	3957.4
5°	3836.2
6°	3670.7
7°	3463.6
8°	3210.9
9°	2912.4
10°	2566.9
11°	2188.1
12°	1794.1
13°	1418.1
14°	1097.5
15°	856.6
17.5°	483.3
20°	306.1
22.5°	218.1
25°	156.5
27.5°	110.8
30°	76.9
32.5°	54.0
35°	33.9
37.5°	13.8
40°	10.4
42.5°	7.6
45°	4.8
47.5°	2.8
50°	2.1
52.5°	1.4
55°	0.7
57.5°	0.7
60°	0.7
62.5°	0.0
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



TEST NUMBER: P223509

CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDL*MW

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)