

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: P223520

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223520
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 2LBDSQLC*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 664.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

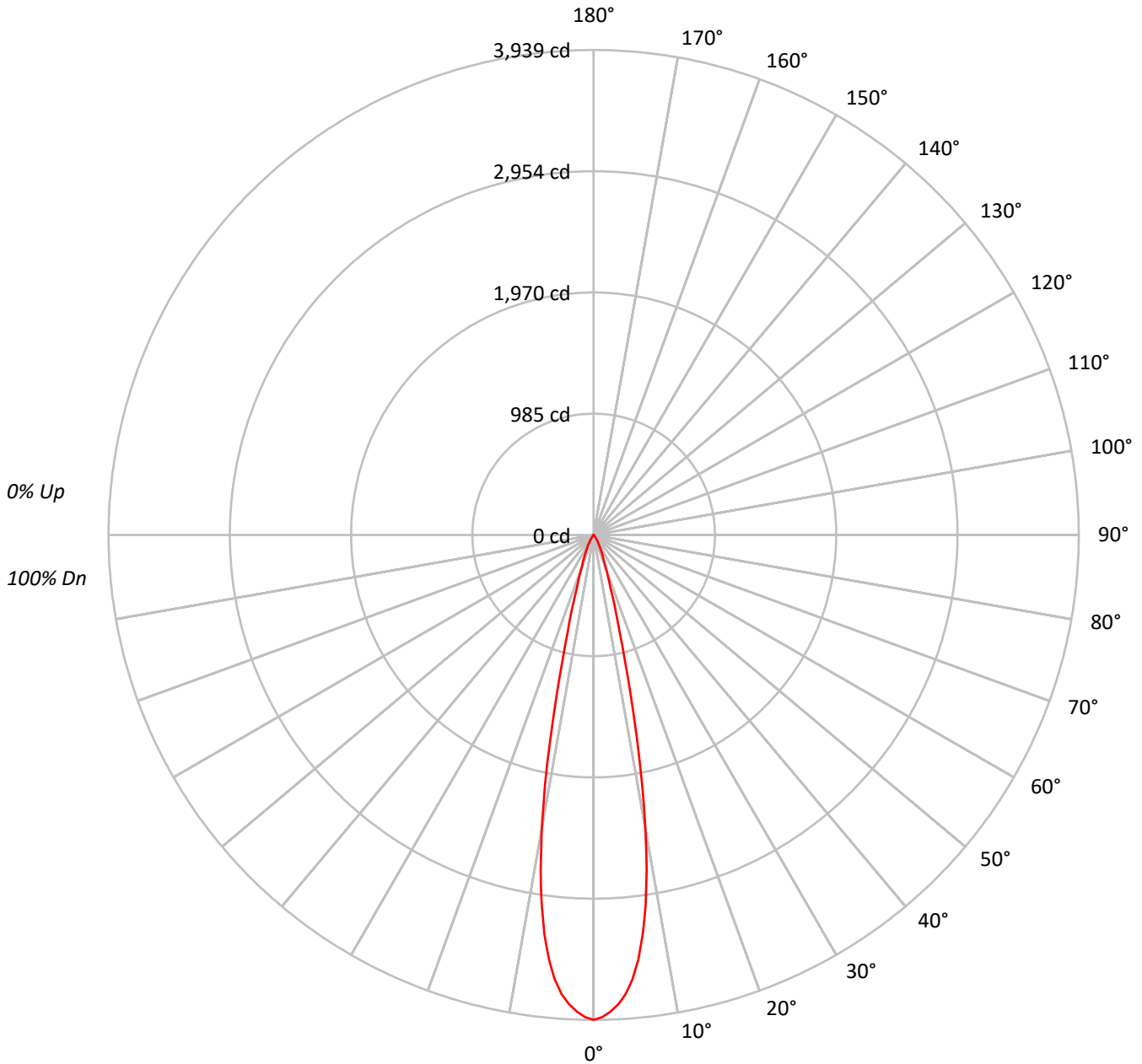
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





TEST NUMBER: P223520
CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDSQLC*MW

Luminous Intensity Polar Plot





TEST NUMBER: P223520
 CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDSQLC*MW

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

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	1525872
5°	1408871
10°	953608
15°	324417
20°	119168
25°	63168
30°	32472
35°	15132
40°	4955
45°	2520
50°	1205
55°	473
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223520

CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDSQLC*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	46.4
10°-20°	259.1	39.0
20°-30°	71.1	10.7
30°-40°	20.7	3.1
40°-50°	3.8	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°	638.5	96.2
0°-40°	659.2	99.3
0°-60°	663.9	100.0
0°-90°	664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	664.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3939	
5°	3623	308
15°	809	259
25°	148	71
35°	32	21
45°	5	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223520

CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDSQLC*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3939.3
1°	3916.4
2°	3875.8
3°	3817.6
4°	3737.8
5°	3623.4
6°	3467.0
7°	3271.5
8°	3032.8
9°	2750.9
10°	2424.5
11°	2066.8
12°	1694.6
13°	1339.5
14°	1036.6
15°	809.0
17.5°	456.5
20°	289.1
22.5°	206.0
25°	147.8
27.5°	104.6
30°	72.6
32.5°	51.0
35°	32.0
37.5°	13.1
40°	9.8
42.5°	7.2
45°	4.6
47.5°	2.6
50°	2.0
52.5°	1.3
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: P223520

CATALOG NUMBER: LD2B05D010 EU2B05NFL258027 2LBDSQLC*MW

CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)