

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: P225321

Luminaire Tested: **LD2B05D010 EU2B05FL409050 2LBDC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225321
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: LD2B05D010 EU2B05FL409050 2LBDC*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
CAST ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 588.0 lumens
Efficiency: N/A
Efficacy: 80.6 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

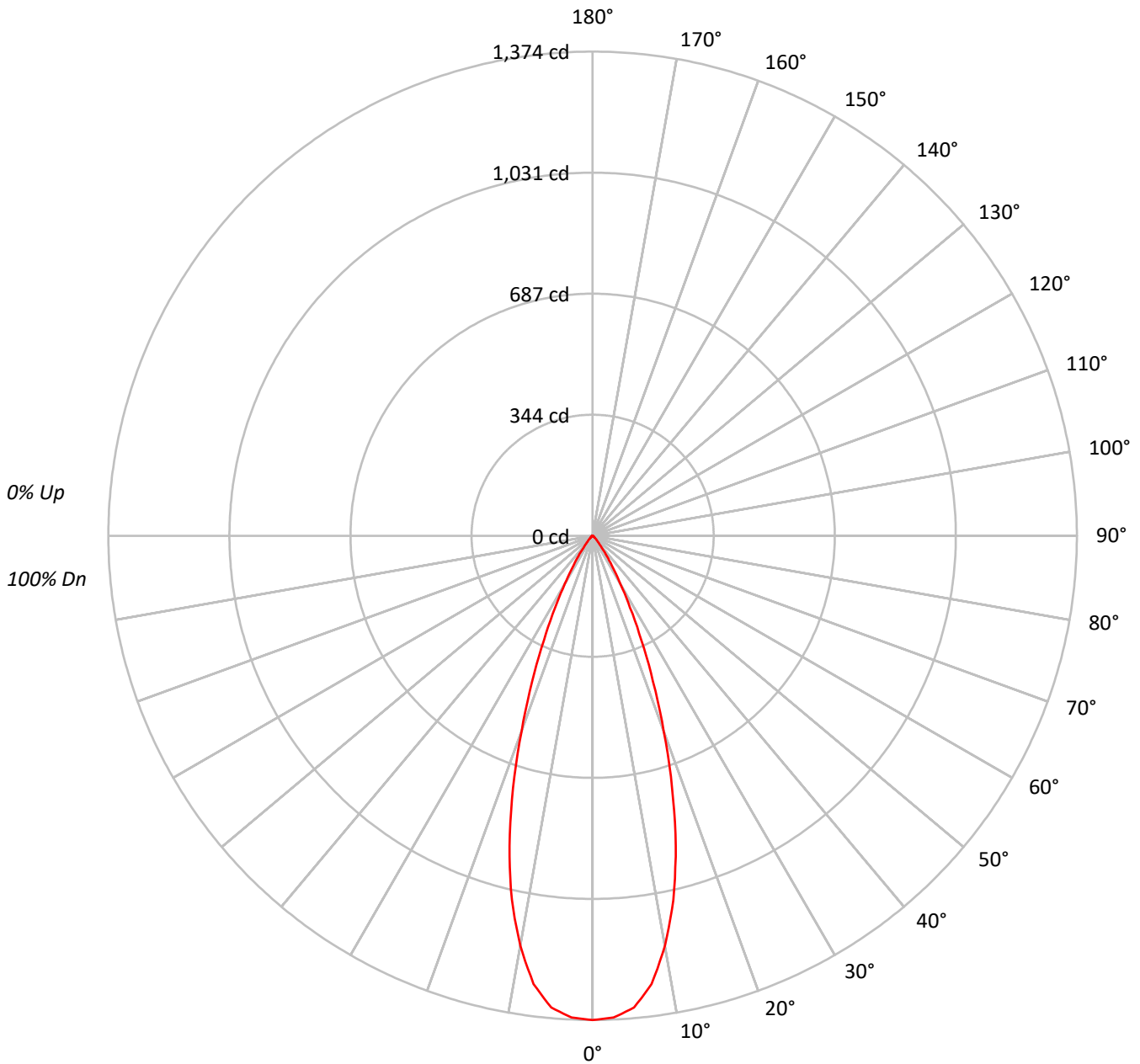
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225321

CATALOG NUMBER: LD2B05D010 EU2B05FL409050 2LBDC*MW

Luminous Intensity Polar Plot





TEST NUMBER: P225321

CATALOG NUMBER: LD2B05D010 EU2B05FL409050 2LBDC*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
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91			91
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82			82
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			79
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75			75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	532330
5°	522620
10°	464591
15°	365400
20°	243119
25°	139585
30°	70490
35°	33148
40°	13349
45°	6628
50°	3616
55°	2566
60°	2324
65°	1375
70°	1699
75°	1197
80°	1785
85°	0



TEST NUMBER: P225321

CATALOG NUMBER: LD2B05D010 EU2B05FL409050 2LBDC*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	20.9
10°-20°	246.8	42.0
20°-30°	153.6	26.1
30°-40°	47.2	8.0
40°-50°	10.4	1.8
50°-60°	3.7	0.6
60°-70°	1.9	0.3
70°-80°	1.1	0.2
80°-90°	0.3	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°	523.5	89.0
0°-40°	570.7	97.0
0°-60°	584.7	99.4
0°-90°	588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	588.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1374	
5°	1344	123
15°	911	247
25°	327	154
35°	70	47
45°	12	10
55°	4	4
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P225321

CATALOG NUMBER: LD2B05D010 EU2B05FL409050 2LBDC*MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1374.3
2.5°	1368.2
5°	1344.1
7.5°	1283.0
10°	1181.2
12.5°	1059.0
15°	911.2
17.5°	749.7
20°	589.8
22.5°	447.3
25°	326.6
27.5°	230.1
30°	157.6
32.5°	106.4
35°	70.1
37.5°	42.2
40°	26.4
42.5°	18.1
45°	12.1
47.5°	8.3
50°	6.0
52.5°	5.3
55°	3.8
57.5°	3.0
60°	3.0
62.5°	2.3
65°	1.5
67.5°	1.5
70°	1.5
72.5°	1.5
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)