

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: P225379

Luminaire Tested: **LD2B05D010 EU2B05FL409035 2LBDC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409035 2LBDC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 638.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

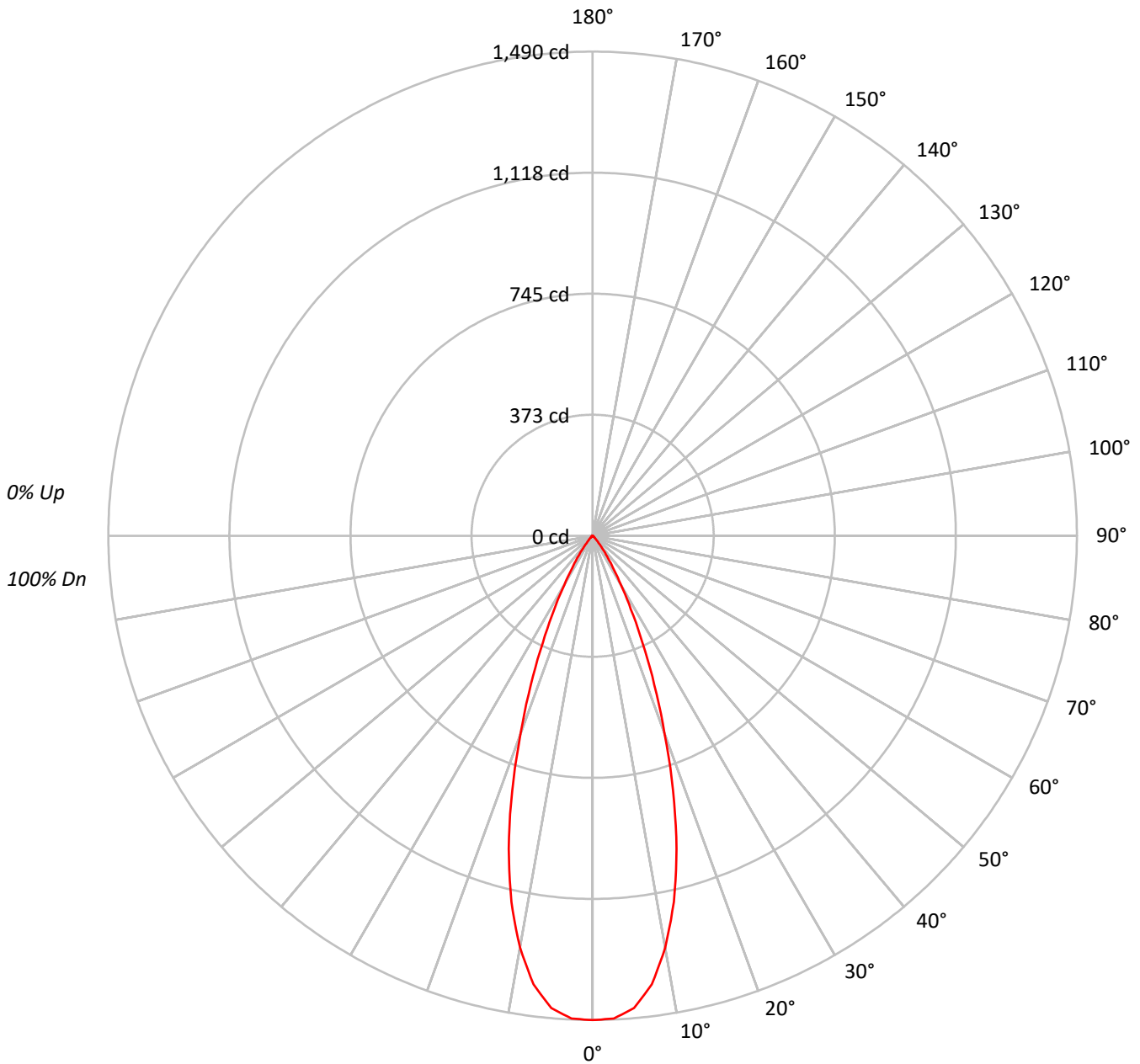
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225379

CATALOG NUMBER: LD2B05D010 EU2B05FL409035 2LBDC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225379

CATALOG NUMBER: LD2B05D010 EU2B05FL409035 2LBDC*MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	103	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	84	81	85	83	80	79				79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76				76
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72				72
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69				69
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67				67
10	82	74	69	66	81	73	69	66	73	68	65	72	68	65	71	68	65	64				64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	577262
5°	567219
10°	506008
15°	399967
20°	266697
25°	154715
30°	77422
35°	36410
40°	14259
45°	6354
50°	3013
55°	1688
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P225379

CATALOG NUMBER: LD2B05D010 EU2B05FL409035 2LBDC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	21.0
10°-20°	270.0	42.3
20°-30°	169.8	26.6
30°-40°	51.9	8.1
40°-50°	10.2	1.6
50°-60°	2.3	0.4
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°	573.5	89.9
0°-40°	625.4	98.0
0°-60°	637.9	100.0
0°-90°	638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	638.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1490	
5°	1459	134
15°	997	270
25°	362	170
35°	77	52
45°	12	10
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P225379

CATALOG NUMBER: LD2B05D010 EU2B05FL409035 2LBDC*MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1490.3
2.5°	1487.0
5°	1458.8
7.5°	1392.5
10°	1286.5
12.5°	1154.0
15°	997.4
17.5°	823.4
20°	647.0
22.5°	496.2
25°	362.0
27.5°	255.1
30°	173.1
32.5°	116.8
35°	77.0
37.5°	47.2
40°	28.2
42.5°	18.2
45°	11.6
47.5°	7.5
50°	5.0
52.5°	3.3
55°	2.5
57.5°	1.7
60°	0.8
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
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)