

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: P225500

Luminaire Tested: **LD2B05D010 EU2B05FL408027 2LBDL*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14832)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL408027 2LBDL*H
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 705.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

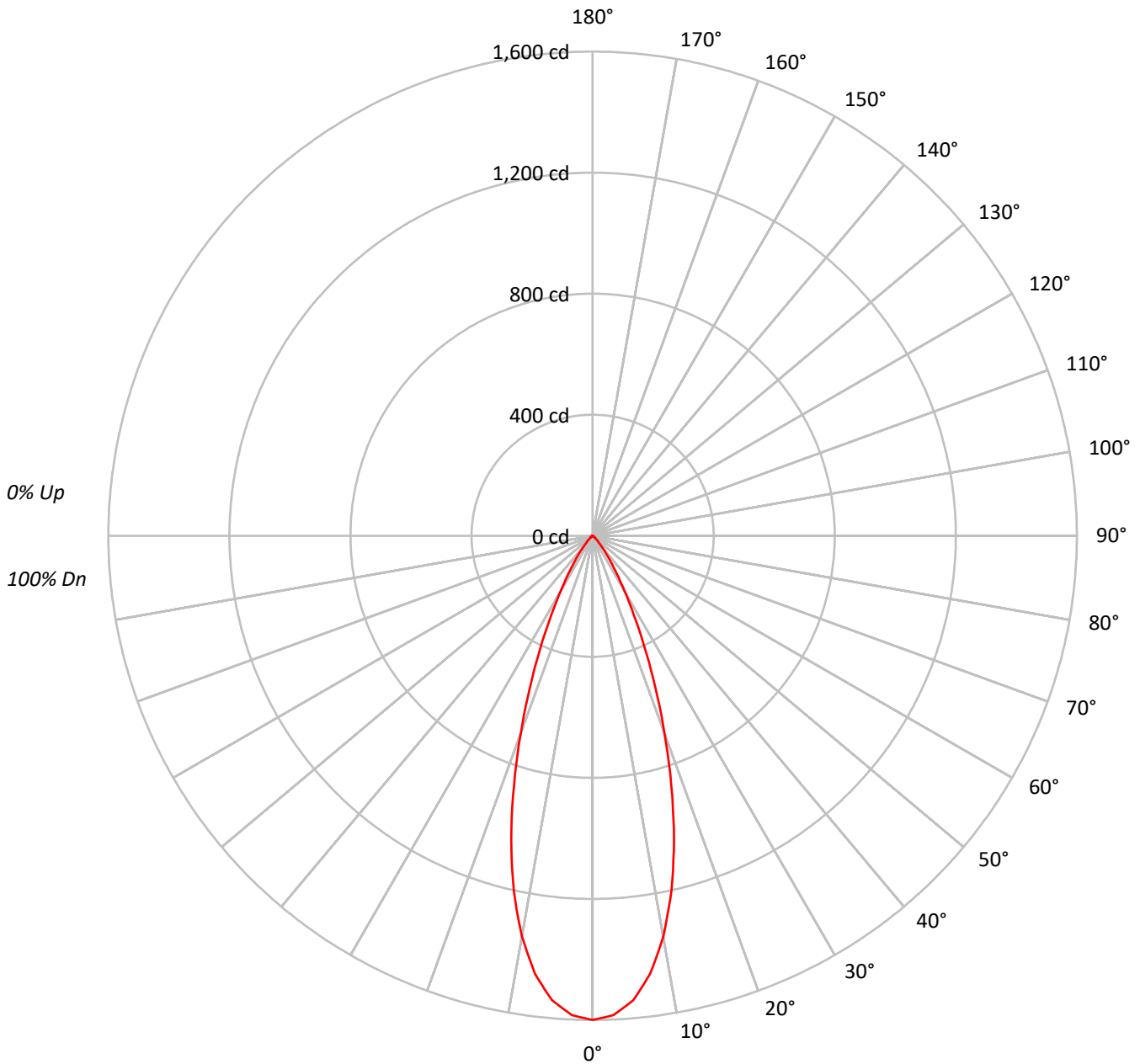
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225500

CATALOG NUMBER: LD2B05D010 EU2B05FL408027 2LBDL*H

Luminous Intensity Polar Plot





TEST NUMBER: P225500

CATALOG NUMBER: LD2B05D010 EU2B05FL408027 2LBDL*H

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	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90				90
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86				86
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82				82
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78				78
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74				74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71				71
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68				68
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65				65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62				62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	619715
5°	599102
10°	528585
15°	416449
20°	286194
25°	172793
30°	93658
35°	48137
40°	23512
45°	11175
50°	5845
55°	3917
60°	2247
65°	917
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P225500

CATALOG NUMBER: LD2B05D010 EU2B05FL408027 2LBDL*H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	20.0
10°-20°	282.7	40.1
20°-30°	188.9	26.8
30°-40°	68.4	9.7
40°-50°	17.7	2.5
50°-60°	5.3	0.7
60°-70°	1.3	0.2
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°	612.4	86.9
0°-40°	680.8	96.6
0°-60°	703.7	99.8
0°-90°	705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	705.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1600	
5°	1541	141
15°	1038	283
25°	404	189
35°	102	68
45°	20	18
55°	6	5
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P225500

CATALOG NUMBER: LD2B05D010 EU2B05FL408027 2LBDL*H

CANDELA DISTRIBUTION (FULL):

	0°
0°	1599.9
2.5°	1585.4
5°	1540.8
7.5°	1459.3
10°	1343.9
12.5°	1202.4
15°	1038.5
17.5°	864.0
20°	694.3
22.5°	538.2
25°	404.3
27.5°	294.8
30°	209.4
32.5°	147.4
35°	101.8
37.5°	70.8
40°	46.5
42.5°	30.1
45°	20.4
47.5°	14.5
50°	9.7
52.5°	7.8
55°	5.8
57.5°	3.9
60°	2.9
62.5°	1.9
65°	1.0
67.5°	1.0
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)