

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: P225442

Luminaire Tested: **LD2B05D010 EU2B05FL409050 2LBDLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14833)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409050 2LBDLC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 617.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

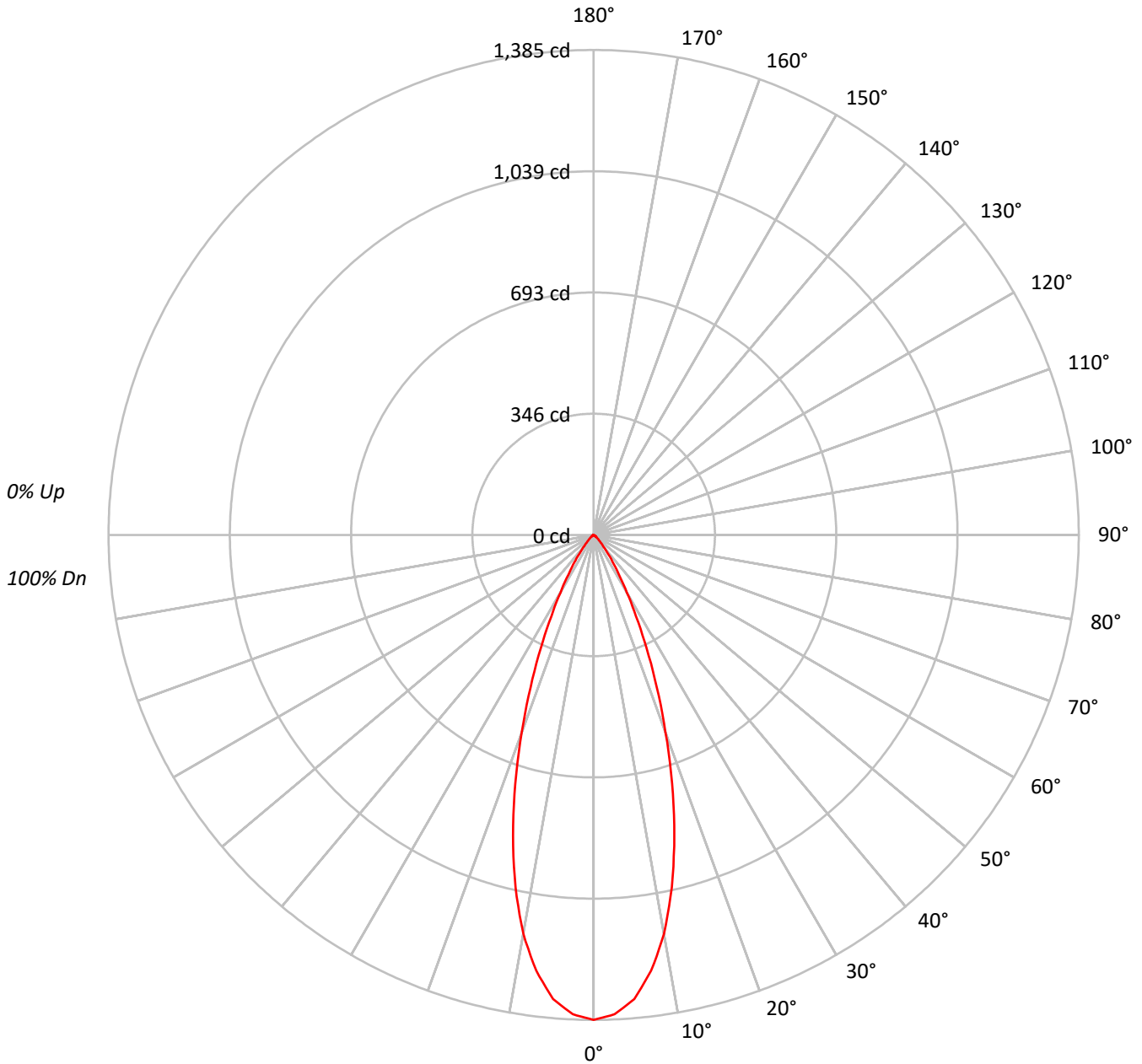
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225442

CATALOG NUMBER: LD2B05D010 EU2B05FL409050 2LBDLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225442

CATALOG NUMBER: LD2B05D010 EU2B05FL409050 2LBDLC*MB

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	105	102	99	107	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86																			
4	101	94	90	86	99	93	89	86	91	87	85	89	86	84	88	85	83	81																			
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77																			
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74																			
7	89	81	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70																			
8	86	78	73	69	85	77	73	69	76	72	69	75	72	69	75	71	68	67																			
9	83	75	70	66	82	74	69	66	73	69	66	72	69	66	72	68	65	64																			
10	80	72	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	536513
5°	517294
10°	454955
15°	356618
20°	246993
25°	152150
30°	84668
35°	45158
40°	22400
45°	11394
50°	6267
55°	4119
60°	2014
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P225442

CATALOG NUMBER: LD2B05D010 EU2B05FL409050 2LBDLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	19.7
10°-20°	242.9	39.4
20°-30°	165.9	26.9
30°-40°	63.3	10.3
40°-50°	17.6	2.8
50°-60°	5.5	0.9
60°-70°	0.5	0.1
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°	530.2	85.9
0°-40°	593.4	96.2
0°-60°	616.5	99.9
0°-90°	617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1385	
5°	1330	121
15°	889	243
25°	356	166
35°	96	63
45°	21	18
55°	6	5
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P225442

CATALOG NUMBER: LD2B05D010 EU2B05FL409050 2LBDLC*MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1385.1
2.5°	1370.4
5°	1330.4
7.5°	1255.7
10°	1156.7
12.5°	1030.8
15°	889.3
17.5°	744.2
20°	599.2
22.5°	470.7
25°	356.0
27.5°	261.4
30°	189.3
32.5°	134.6
35°	95.5
37.5°	66.9
40°	44.3
42.5°	29.5
45°	20.8
47.5°	14.8
50°	10.4
52.5°	7.8
55°	6.1
57.5°	4.3
60°	2.6
62.5°	0.9
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)