

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: P224854

Luminaire Tested: **LD2B05D010 EU2B05FL409024 2LBD*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224854
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 EU2B05FL409024 2LBD*B
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 542.0 lumens
Efficiency: N/A
Efficacy: 74.2 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

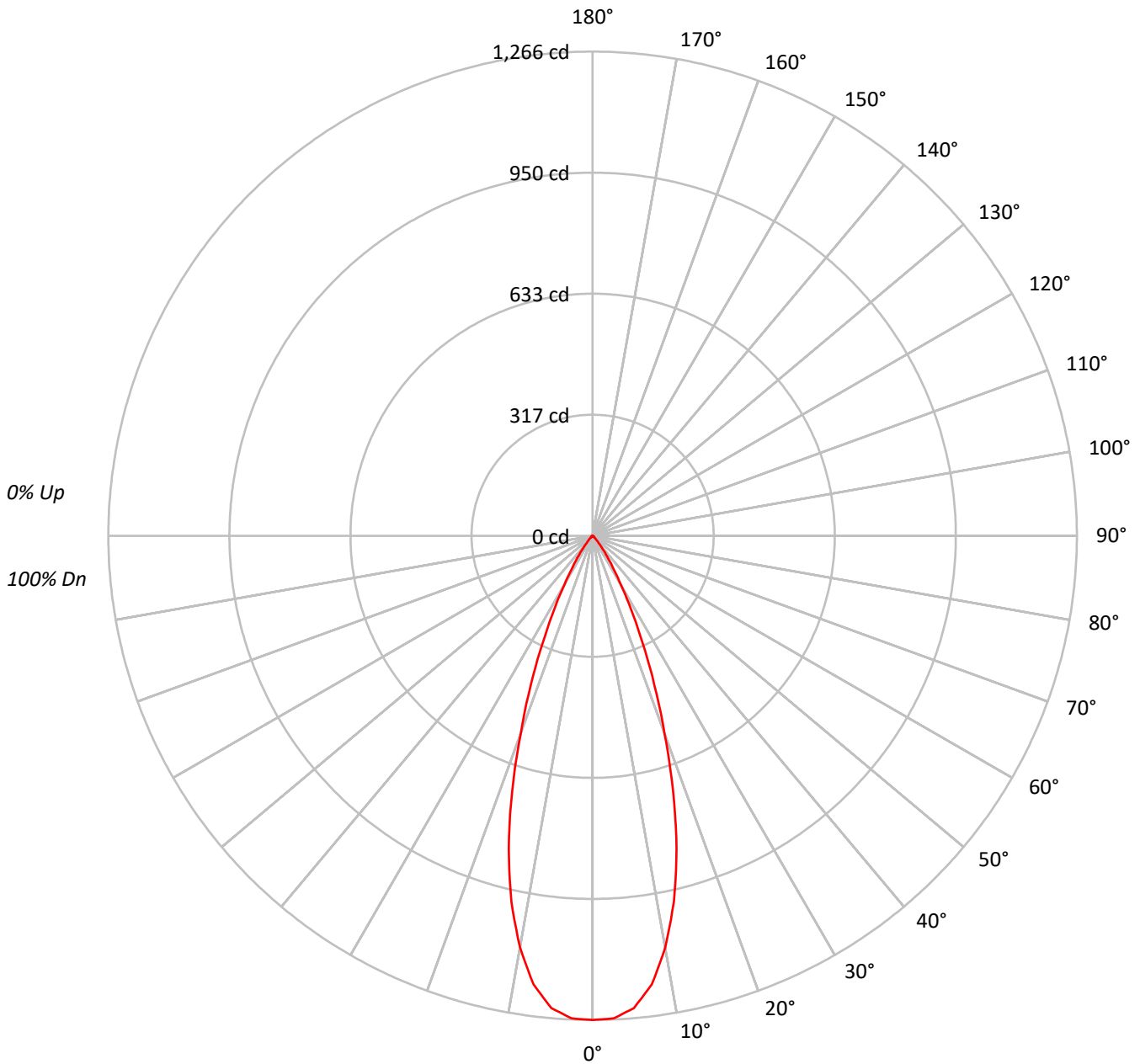
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224854

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBD*B

Luminous Intensity Polar Plot





TEST NUMBER: P224854

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBD*B

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	103	100	108	104	101	99	101	99	96	98	96	94	96	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	66	72	68	65	71	68	65	64			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	490380
5°	481872
10°	429861
15°	339776
20°	226548
25°	131422
30°	65793
35°	30925
40°	12085
45°	5423
50°	2531
55°	1418
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224854

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBD*B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	21.0
10°-20°	229.3	42.3
20°-30°	144.3	26.6
30°-40°	44.1	8.1
40°-50°	8.7	1.6
50°-60°	1.9	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°	487.2	89.9
0°-40°	531.3	98.0
0°-60°	541.9	100.0
0°-90°	542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	542.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1266	
5°	1239	114
15°	847	229
25°	308	144
35°	65	44
45°	10	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224854

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBD*B

CANDELA DISTRIBUTION (FULL):

0°	
0°	1266.0
2.5°	1263.2
5°	1239.3
7.5°	1183.0
10°	1092.9
12.5°	980.3
15°	847.3
17.5°	699.5
20°	549.6
22.5°	421.5
25°	307.5
27.5°	216.8
30°	147.1
32.5°	99.2
35°	65.4
37.5°	40.1
40°	23.9
42.5°	15.5
45°	9.9
47.5°	6.3
50°	4.2
52.5°	2.8
55°	2.1
57.5°	1.4
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
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)