

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: P224557

Luminaire Tested: **LD2B05D010 EU2B05FL408035 2LBDL*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL408035 2LBDL*GPH
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 736.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

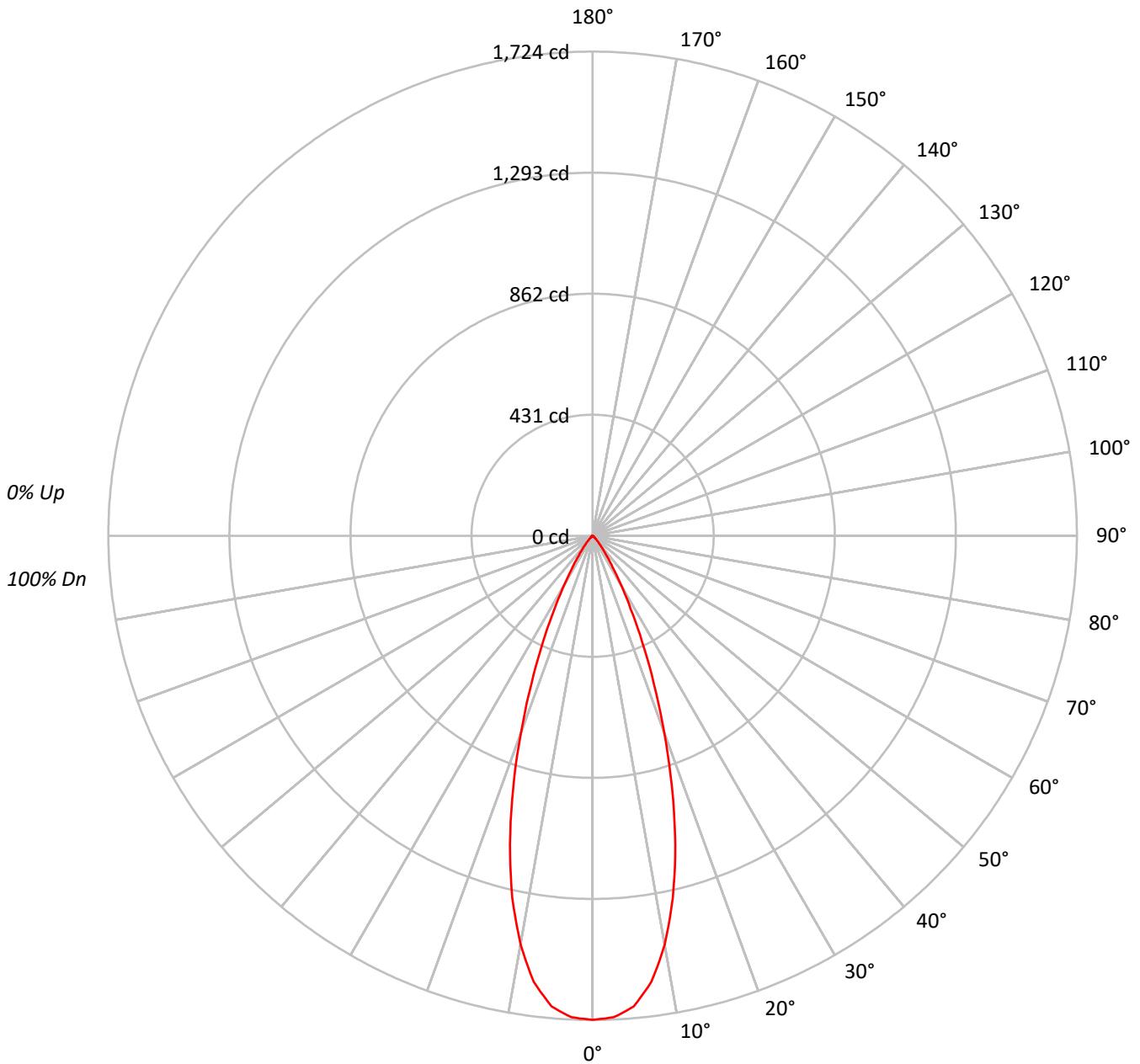
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224557

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDL*GPH

Luminous Intensity Polar Plot





TEST NUMBER: P224557

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDL*GPH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	667668
5°	654160
10°	581290
15°	456069
20°	306722
25°	178478
30°	89409
35°	41706
40°	19467
45°	8217
50°	3977
55°	2566
60°	1472
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224557

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDL*GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	20.9
10°-20°	308.7	41.9
20°-30°	195.2	26.5
30°-40°	60.7	8.3
40°-50°	13.5	1.8
50°-60°	3.5	0.5
60°-70°	0.4	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°	657.9	89.4
0°-40°	718.6	97.6
0°-60°	735.6	99.9
0°-90°	736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	736.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1724	
5°	1682	154
15°	1137	309
25°	418	195
35°	88	61
45°	15	13
55°	4	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224557

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDL*GPH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1723.7
2.5°	1716.2
5°	1682.4
7.5°	1602.7
10°	1477.9
12.5°	1320.2
15°	1137.3
17.5°	939.3
20°	744.1
22.5°	568.6
25°	417.6
27.5°	292.8
30°	199.9
32.5°	132.3
35°	88.2
37.5°	59.1
40°	38.5
42.5°	23.5
45°	15.0
47.5°	10.3
50°	6.6
52.5°	4.7
55°	3.8
57.5°	2.8
60°	1.9
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)