

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: P225121

Luminaire Tested: **LD2B05D010 EU2B05FL409027 2LBD*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225121
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 EU2B05FL409027 2LBD*GPH
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SPUN ROUND TRIM WITH GRAPHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 599.0 lumens
Efficiency: N/A
Efficacy: 82.1 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

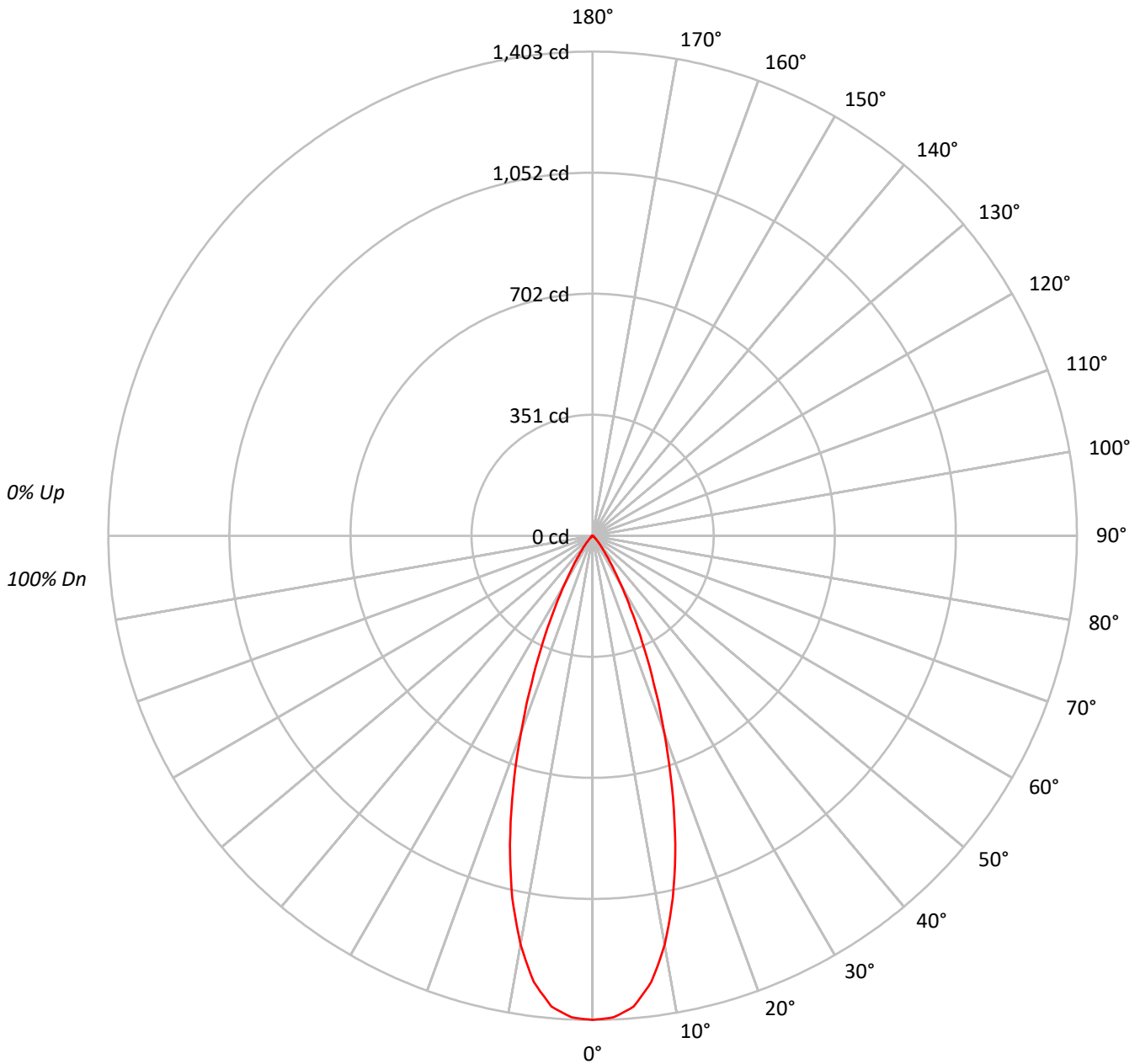
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225121

CATALOG NUMBER: LD2B05D010 EU2B05FL409027 2LBD*GPH

Luminous Intensity Polar Plot





TEST NUMBER: P225121

CATALOG NUMBER: LD2B05D010 EU2B05FL409027 2LBD*GPH

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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	102	100	108	104	101	98	101	99	96	98	96	94	95	94	92	91	91	91	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87	87	87	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	83	83	83
5	98	91	86	83	96	90	85	82	88	84	81	87	83	81	85	82	80	79	79	79	79
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75	75	75	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72	72	72	72
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69	69	69	69
9	84	76	72	68	83	76	71	68	75	71	68	74	70	68	73	70	68	66	66	66	66
10	81	73	69	65	80	73	68	65	72	68	65	72	68	65	71	67	65	64	64	64	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	543408
5°	532419
10°	473087
15°	371175
20°	249631
25°	145227
30°	72771
35°	33952
40°	15827
45°	6683
50°	3194
55°	2093
60°	1162
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P225121

CATALOG NUMBER: LD2B05D010 EU2B05FL409027 2LBD*GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	20.9
10°-20°	251.2	41.9
20°-30°	158.9	26.5
30°-40°	49.4	8.3
40°-50°	11.0	1.8
50°-60°	2.8	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°	535.4	89.4
0°-40°	584.9	97.6
0°-60°	598.6	99.9
0°-90°	599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	599.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1403	
5°	1369	125
15°	926	251
25°	340	159
35°	72	49
45°	12	11
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P225121

CATALOG NUMBER: LD2B05D010 EU2B05FL409027 2LBD*GPH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1402.9
2.5°	1396.7
5°	1369.3
7.5°	1304.3
10°	1202.8
12.5°	1074.5
15°	925.6
17.5°	764.4
20°	605.6
22.5°	462.8
25°	339.8
27.5°	238.3
30°	162.7
32.5°	107.7
35°	71.8
37.5°	48.1
40°	31.3
42.5°	19.1
45°	12.2
47.5°	8.4
50°	5.3
52.5°	3.8
55°	3.1
57.5°	2.3
60°	1.5
62.5°	0.8
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)