

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: P225240

Luminaire Tested: **LD2B05D010 EU2B05FL408027 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL408027 2LBDSQLC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 657.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

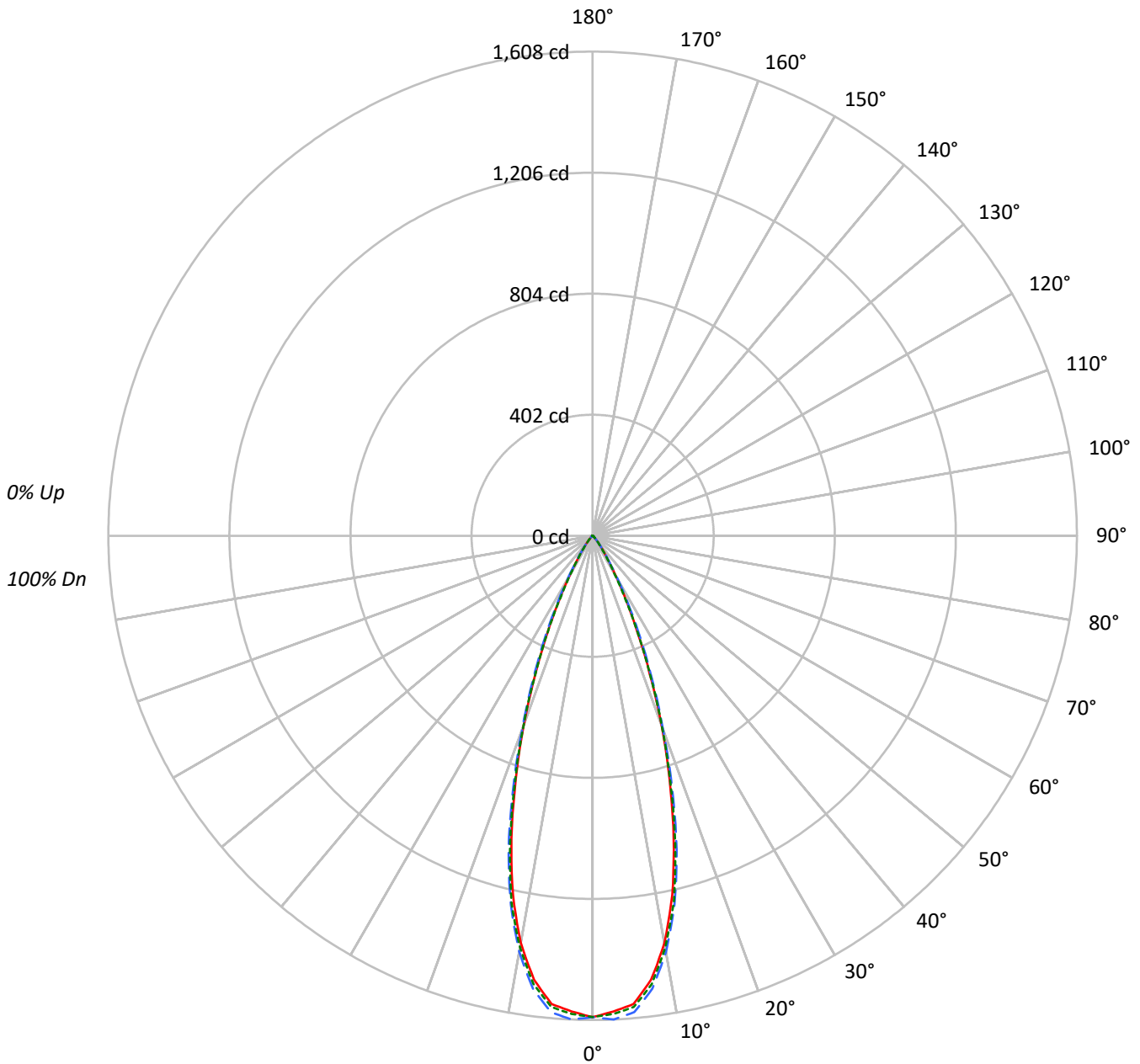
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225240

CATALOG NUMBER: LD2B05D010 EU2B05FL408027 2LBDSQLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225240

CATALOG NUMBER: LD2B05D010 EU2B05FL408027 2LBDSQLC*MB

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								
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96								
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91								
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87								
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83								
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80								
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77								
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73								
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71								
9	85	78	73	70	84	77	73	70	76	72	69	75	72	69	75	71	69	68								
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	619134	619134	619134
5°	606918	617338	610728
10°	540070	551673	546048
15°	417291	432329	424830
20°	275270	281165	276754
25°	150142	160485	150911
30°	67582	74783	64764
35°	29176	30027	26622
40°	12186	12641	11276
45°	4875	5368	5368
50°	2169	2712	2712
55°	1216	1216	1823
60°	697	697	697
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225240

CATALOG NUMBER: LD2B05D010 EU2B05FL408027 2LBDSQLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	22.0
10°-20°	287.6	43.8
20°-30°	169.9	25.9
30°-40°	44.2	6.7
40°-50°	8.7	1.3
50°-60°	1.9	0.3
60°-70°	0.2	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°	602.0	91.6
0°-40°	646.2	98.4
0°-60°	656.9	100.0
0°-90°	657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1561	1573	1588	1577	1571	143
15°	1041	1064	1078	1062	1059	282
25°	351	363	376	361	353	166
35°	62	64	64	63	56	43
45°	9	11	10	10	10	8
55°	2	2	2	2	3	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P225240

CATALOG NUMBER: LD2B05D010 EU2B05FL408027 2LBDSQLC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.4	1598.4	1598.4	1598.4	1598.4
2.5°	1581.4	1597.5	1608.2	1599.3	1589.5
5°	1560.9	1573.4	1587.7	1577.0	1570.7
7.5°	1487.6	1506.3	1517.1	1511.7	1501.9
10°	1373.1	1387.4	1402.6	1397.3	1388.3
12.5°	1222.1	1241.7	1256.0	1243.5	1245.3
15°	1040.6	1063.8	1078.1	1062.0	1059.4
17.5°	848.4	866.3	876.1	866.3	859.1
20°	667.8	678.5	682.1	677.6	671.4
22.5°	493.5	505.1	515.8	505.1	497.0
25°	351.3	363.0	375.5	361.2	353.1
27.5°	236.9	244.1	254.8	241.4	229.7
30°	151.1	159.1	167.2	157.3	144.8
32.5°	95.7	101.0	101.9	100.1	89.4
35°	61.7	64.4	63.5	62.6	56.3
37.5°	39.3	39.3	40.2	39.3	35.8
40°	24.1	25.9	25.0	24.1	22.3
42.5°	14.3	16.1	15.2	15.2	14.3
45°	8.9	10.7	9.8	9.8	9.8
47.5°	6.3	7.2	6.3	6.3	7.2
50°	3.6	4.5	4.5	4.5	4.5
52.5°	2.7	2.7	2.7	2.7	3.6
55°	1.8	1.8	1.8	1.8	2.7
57.5°	1.8	1.8	0.9	0.9	1.8
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.0	0.0	0.0	0.9
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)