

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: P225280

Luminaire Tested: **LD2B05D010 EU2B05FL408035 2LBDC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL408035 2LBDC*MMS
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 779.0 lumens
Efficiency: N/A
Efficacy: 106.7 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

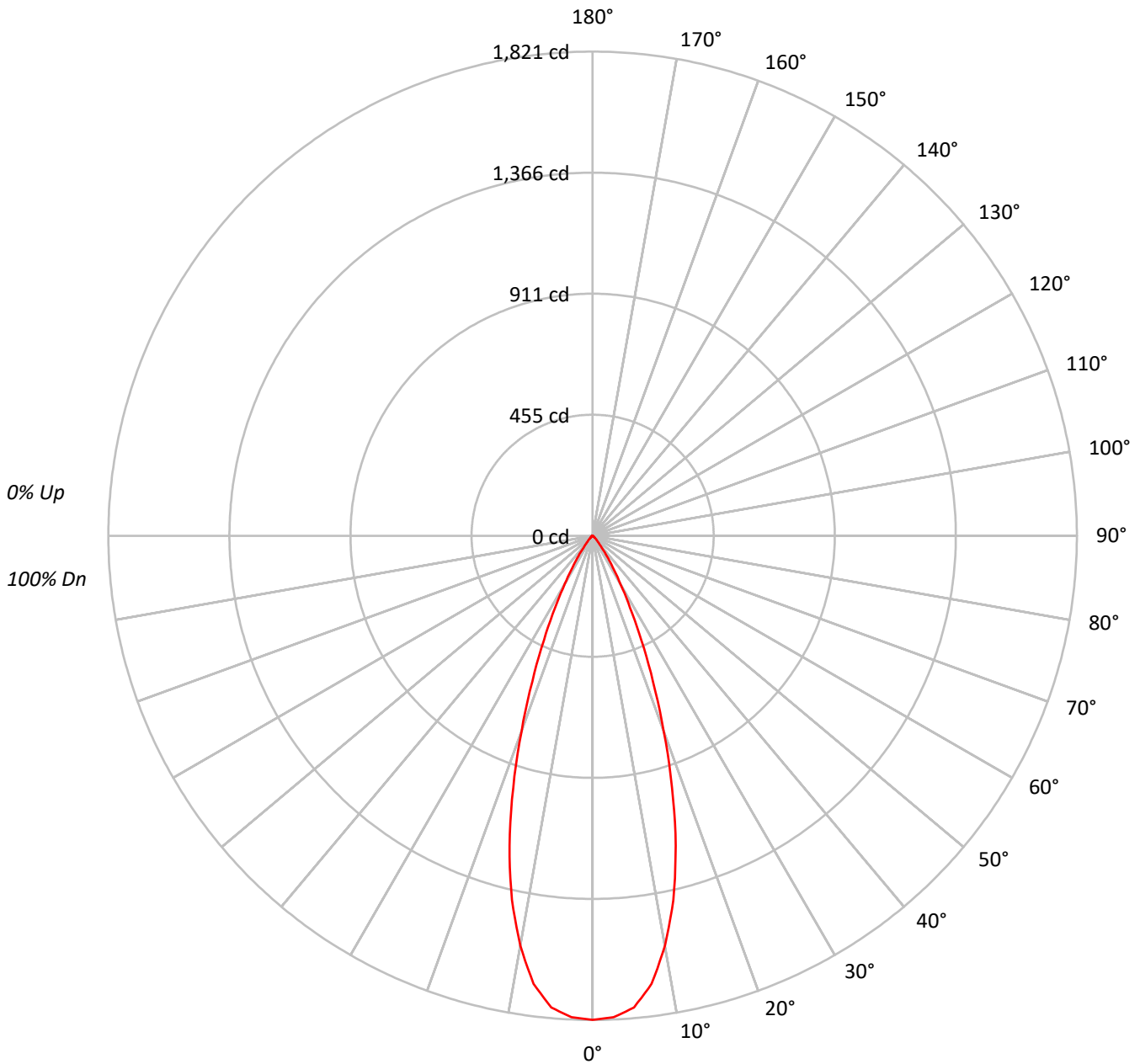
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225280

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P225280

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDC*MMS

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				100															
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95															
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91				91															
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86				86															
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82				82															
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79				79															
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75				75															
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72				72															
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69				69															
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66				66															
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64				64															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	705241
5°	692382
10°	615509
15°	484059
20°	322097
25°	184931
30°	93390
35°	43929
40°	17698
45°	8765
50°	4821
55°	3377
60°	3099
65°	1833
70°	2265
75°	1497
80°	2231
85°	0



TEST NUMBER: P225280

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	20.9
10°-20°	327.0	42.0
20°-30°	203.4	26.1
30°-40°	62.5	8.0
40°-50°	13.8	1.8
50°-60°	4.9	0.6
60°-70°	2.5	0.3
70°-80°	1.4	0.2
80°-90°	0.4	0.1
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°	693.5	89.0
0°-40°	756.0	97.1
0°-60°	774.7	99.4
0°-90°	779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	779.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1821	
5°	1781	163
15°	1207	327
25°	433	203
35°	93	63
45°	16	14
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P225280

CATALOG NUMBER: LD2B05D010 EU2B05FL408035 2LBDC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	1820.7
2.5°	1812.7
5°	1780.7
7.5°	1699.8
10°	1564.9
12.5°	1403.0
15°	1207.1
17.5°	993.3
20°	781.4
22.5°	592.6
25°	432.7
27.5°	304.8
30°	208.8
32.5°	140.9
35°	92.9
37.5°	56.0
40°	35.0
42.5°	24.0
45°	16.0
47.5°	11.0
50°	8.0
52.5°	7.0
55°	5.0
57.5°	4.0
60°	4.0
62.5°	3.0
65°	2.0
67.5°	2.0
70°	2.0
72.5°	2.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)