

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: P223736

Luminaire Tested: **LD2B05D010 EU2B05SP159040 2LBDC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (150)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05SP159040 2LBDC*MMS
Description: 500 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 381.0 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

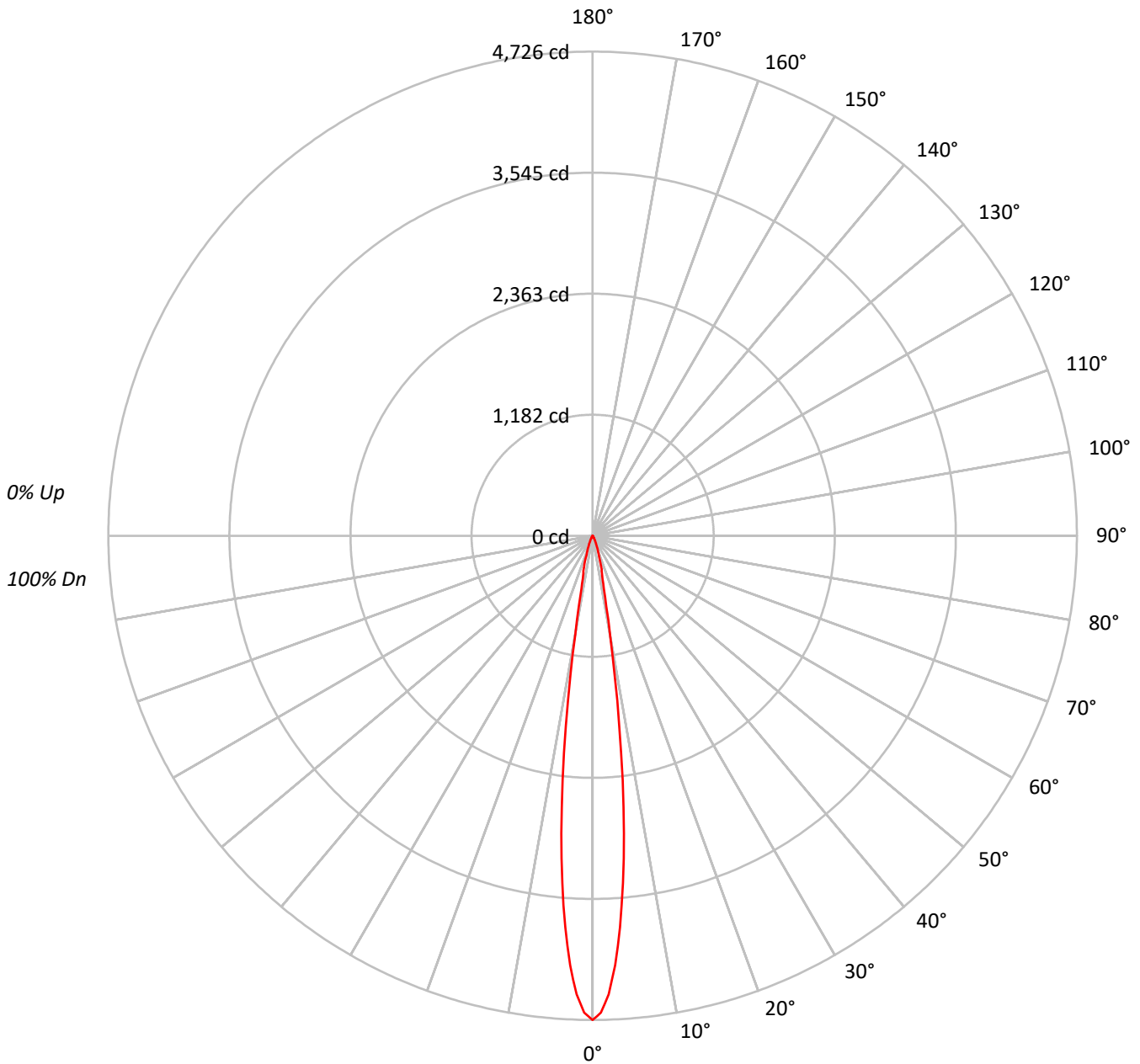
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223736

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P223736

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDC*MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98				98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96				96
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94				94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93				93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91				91
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90				90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88				88
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87				87
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86				86
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85				85

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1830791
5°	1323485
10°	385298
15°	135180
20°	57874
25°	26028
30°	10064
35°	5012
40°	3337
45°	2191
50°	1205
55°	878
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223736

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	63.2
10°-20°	98.0	25.7
20°-30°	30.1	7.9
30°-40°	7.4	1.9
40°-50°	3.1	0.8
50°-60°	1.3	0.3
60°-70°	0.3	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°	368.9	96.8
0°-40°	376.3	98.8
0°-60°	380.8	99.9
0°-90°	381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	381.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4726	
5°	3404	241
15°	337	98
25°	61	30
35°	11	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223736

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	4726.5
1°	4654.3
2°	4478.1
3°	4197.3
4°	3830.3
5°	3403.8
6°	2922.9
7°	2401.0
8°	1871.8
9°	1377.0
10°	979.6
11°	702.1
12°	527.9
13°	429.9
14°	376.2
15°	337.1
17.5°	208.0
20°	140.4
22.5°	94.1
25°	60.9
27.5°	37.1
30°	22.5
32.5°	14.6
35°	10.6
37.5°	8.6
40°	6.6
42.5°	5.3
45°	4.0
47.5°	2.6
50°	2.0
52.5°	2.0
55°	1.3
57.5°	1.3
60°	0.7
62.5°	0.7
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



TEST NUMBER: P223736

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDC*MMS

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)