

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: P223903

Luminaire Tested: **LD2B05D010 EU2B05SP159027 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223903
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 EU2B05SP159027 2LBDSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 318.0 lumens
Efficiency: N/A
Efficacy: 43.6 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

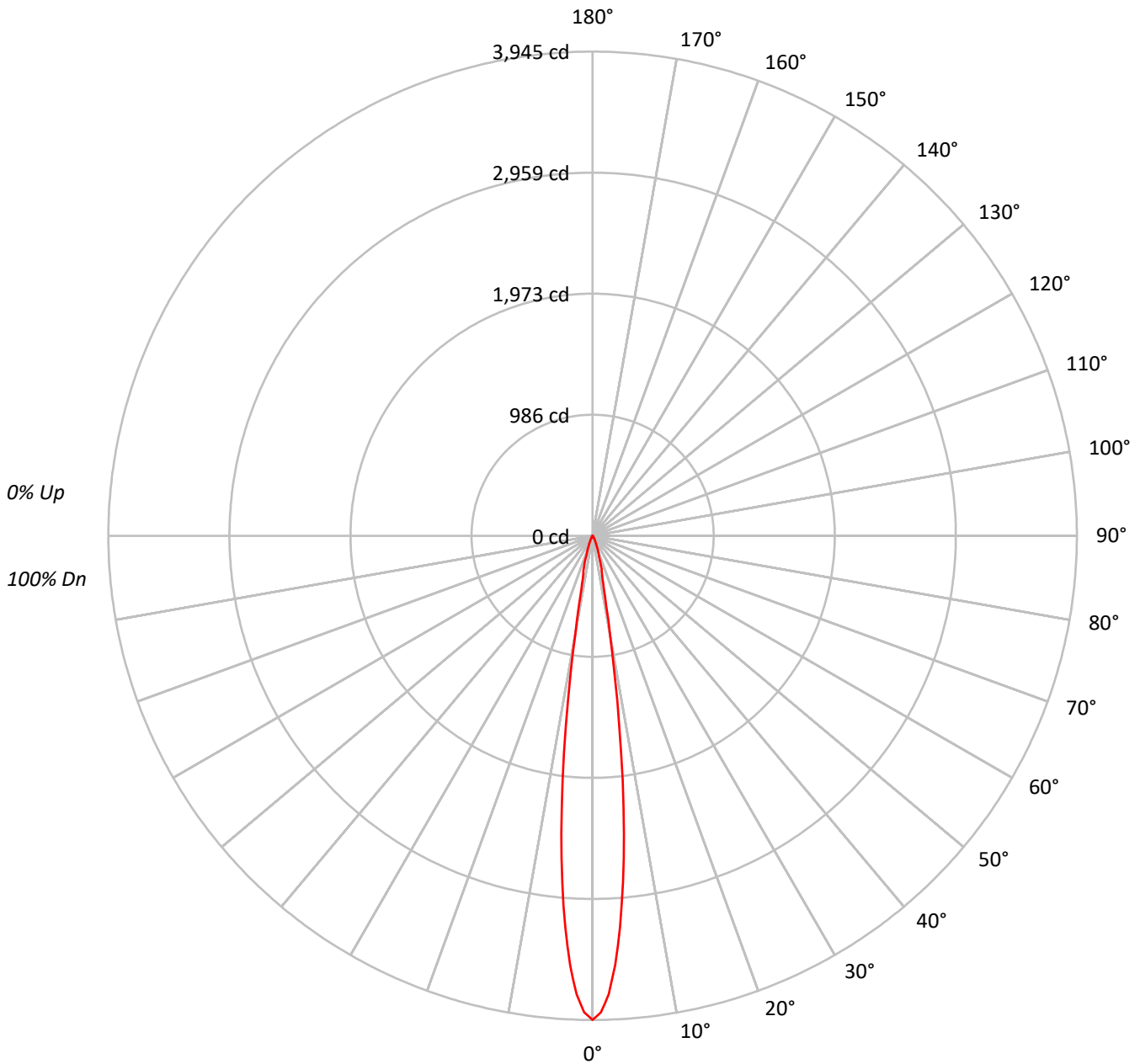
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223903

CATALOG NUMBER: LD2B05D010 EU2B05SP159027 2LBDSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P223903

CATALOG NUMBER: LD2B05D010 EU2B05SP159027 2LBDSQC*MB

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	100	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98	98	98	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96	96	96	96
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94	94	94	94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93	93	93	93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91	91	91	91
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90	90	90	90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88	88	88	88
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	89	88	87	87	87	87
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86	86	86	86
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85	85	85	85

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1528041
5°	1104653
10°	321580
15°	112844
20°	48310
25°	21754
30°	8409
35°	4161
40°	2781
45°	1808
50°	1024
55°	743
60°	465
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223903

CATALOG NUMBER: LD2B05D010 EU2B05SP159027 2LBDSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	63.2
10°-20°	81.8	25.7
20°-30°	25.1	7.9
30°-40°	6.2	1.9
40°-50°	2.6	0.8
50°-60°	1.1	0.4
60°-70°	0.2	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°	307.9	96.8
0°-40°	314.1	98.8
0°-60°	317.8	99.9
0°-90°	318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	318.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3945	
5°	2841	201
15°	281	82
25°	51	25
35°	9	6
45°	3	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223903

CATALOG NUMBER: LD2B05D010 EU2B05SP159027 2LBDSQC*MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	3944.9
1°	3884.7
2°	3737.6
3°	3503.2
4°	3197.0
5°	2841.0
6°	2439.6
7°	2004.0
8°	1562.3
9°	1149.3
10°	817.6
11°	586.0
12°	440.6
13°	358.8
14°	314.0
15°	281.4
17.5°	173.6
20°	117.2
22.5°	78.5
25°	50.9
27.5°	31.0
30°	18.8
32.5°	12.2
35°	8.8
37.5°	7.2
40°	5.5
42.5°	4.4
45°	3.3
47.5°	2.2
50°	1.7
52.5°	1.7
55°	1.1
57.5°	1.1
60°	0.6
62.5°	0.6
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: P223903

CATALOG NUMBER: LD2B05D010 EU2B05SP159027 2LBDSQC*MB

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)