

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: P265166

Luminaire Tested: **LD2B05D010 EU2B0510SP159727 2LBDL*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P265166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-432-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B0510SP159727 2LBDL*B
Description: 500 Lumen, 2inch Portfolio LED Downlight
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 489.0 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

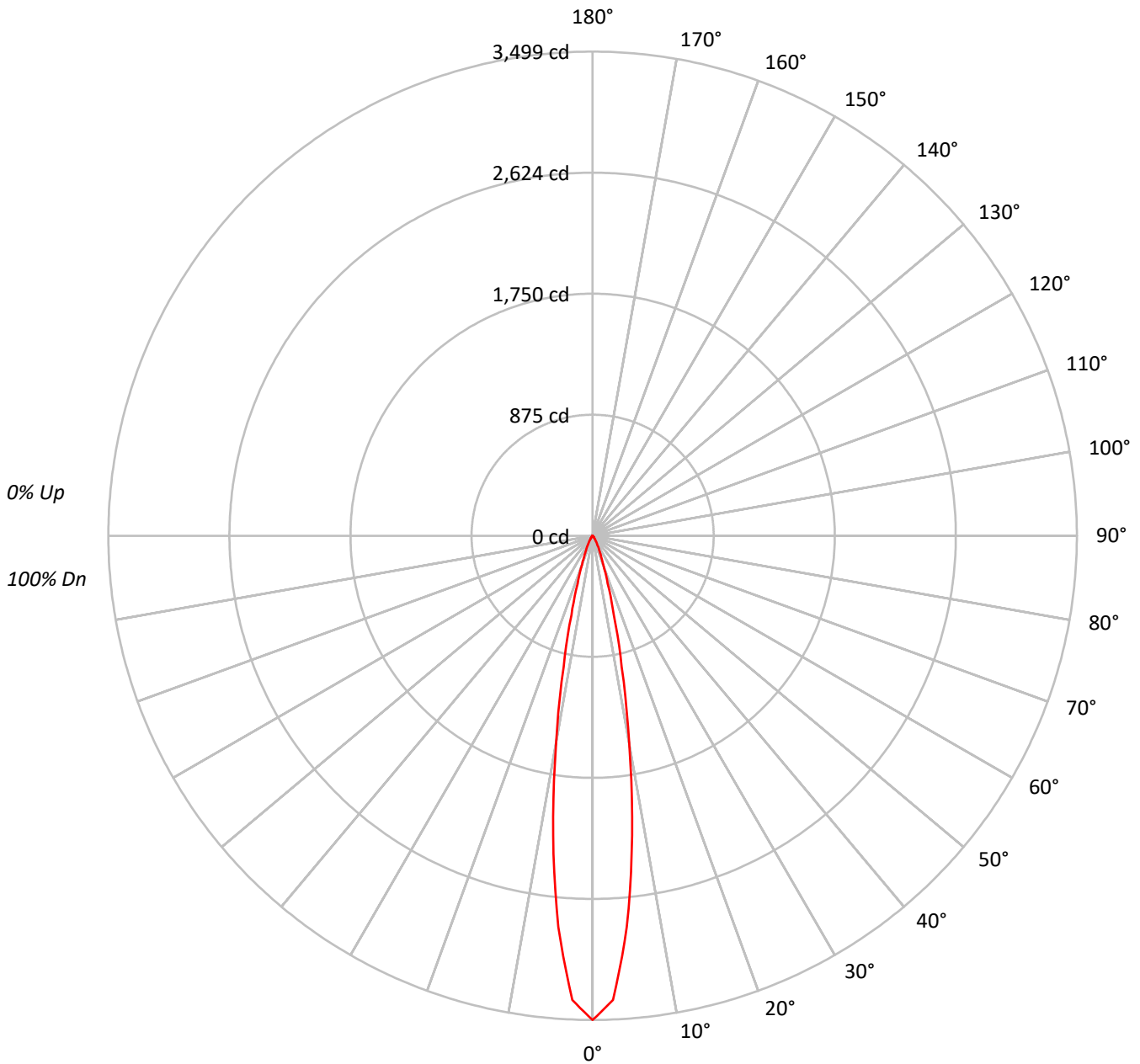
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P265166

CATALOG NUMBER: LD2B05D010 EU2B0510SP159727 2LBDL*B

Luminous Intensity Polar Plot





TEST NUMBER: P265166

CATALOG NUMBER: LD2B05D010 EU2B0510SP159727 2LBDL*B

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	115	113	111	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97	97	97	97
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94	94	94	94
3	109	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92	92	92	92
4	105	100	97	94	104	99	96	93	97	95	92	96	93	91	94	92	90	89	89	89	89
5	103	97	93	91	101	96	93	90	95	92	89	93	91	89	92	90	88	87	87	87	87
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	85	85	85
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	83	83	83
8	95	89	86	83	94	89	85	83	88	85	82	87	84	82	86	84	82	81	81	81	81
9	93	87	83	81	92	87	83	81	86	83	81	85	82	80	85	82	80	79	79	79	79
10	91	85	82	79	91	85	81	79	84	81	79	84	81	79	83	80	78	78	78	78	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1726273
5°	1405014
10°	758974
15°	302629
20°	121333
25°	58084
30°	30136
35°	15900
40°	8823
45°	5442
50°	3761
55°	2494
60°	1973
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P265166

CATALOG NUMBER: LD2B05D010 EU2B0510SP159727 2LBDL*B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	46.7
10°-20°	180.0	36.8
20°-30°	53.1	10.9
30°-40°	17.7	3.6
40°-50°	6.6	1.4
50°-60°	2.9	0.6
60°-70°	0.5	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°	461.3	94.3
0°-40°	478.9	97.9
0°-60°	488.5	99.9
0°-90°	489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	489.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3499	
5°	2837	228
15°	592	180
25°	107	53
35°	26	18
45°	8	7
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P265166

CATALOG NUMBER: LD2B05D010 EU2B0510SP159727 2LBDL*B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3499.0
2.5°	3358.0
5°	2837.0
7.5°	2185.8
10°	1515.0
12.5°	969.5
15°	592.5
17.5°	361.4
20°	231.1
22.5°	154.7
25°	106.7
27.5°	75.4
30°	52.9
32.5°	37.2
35°	26.4
37.5°	18.6
40°	13.7
42.5°	10.8
45°	7.8
47.5°	6.9
50°	4.9
52.5°	3.9
55°	2.9
57.5°	2.9
60°	2.0
62.5°	1.0
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)