

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: P#

Luminaire Tested: **LD2B05D010 EU2B0510NFL259730 2LBPIN**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14816)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B0510NFL259730 2LBPIN
Description: 500 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
ROUND PINHOLE BLACK OCULUS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 446.5 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

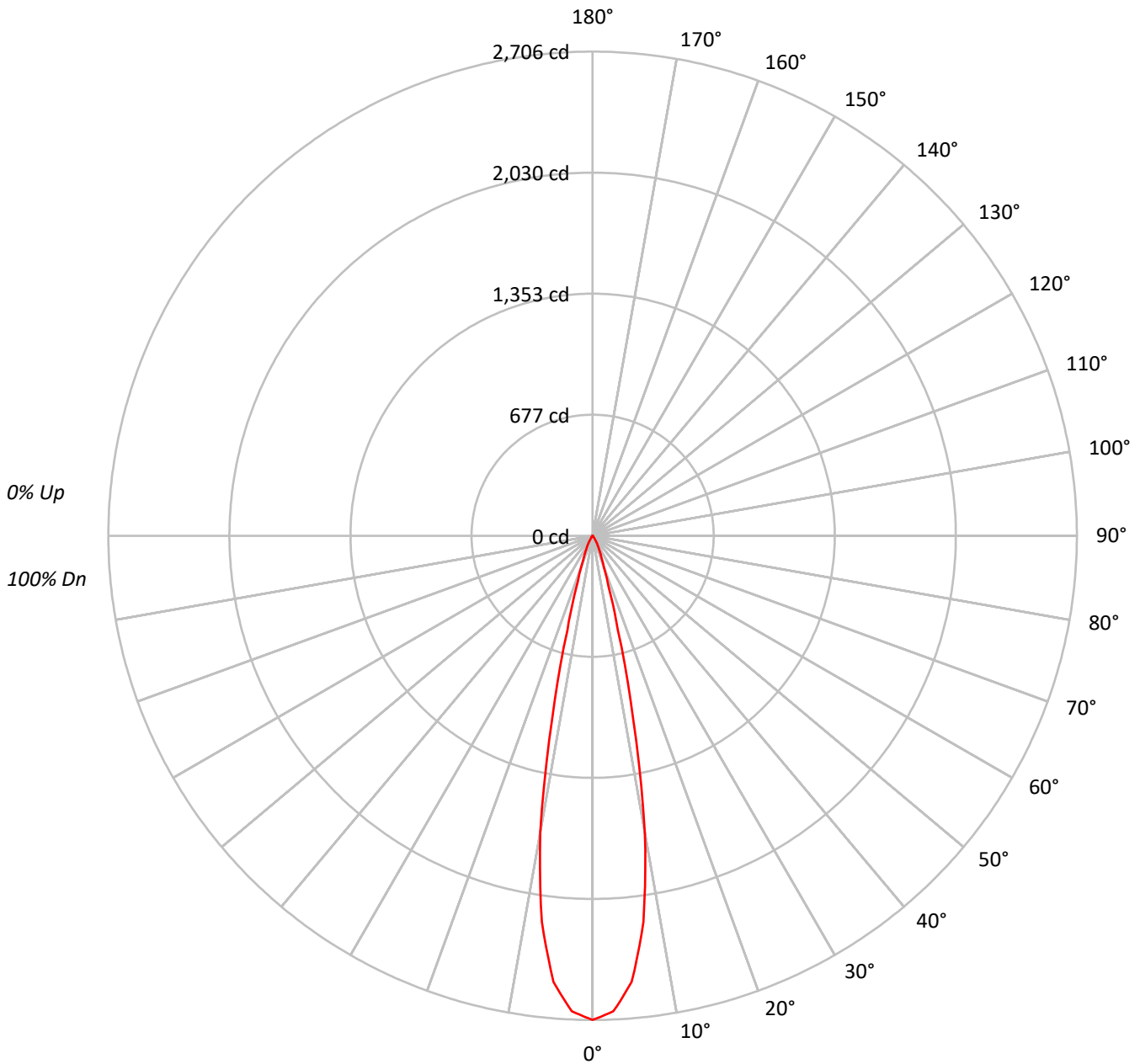
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95	94	94	93
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93	92	92	90
4	106	101	98	95	105	100	97	95	98	96	94	97	94	93	95	93	92	90	89	89	88
5	104	98	95	92	102	98	94	92	96	93	91	95	92	90	93	91	89	88	87	87	86
6	101	96	92	89	100	95	91	89	94	91	88	92	90	88	91	89	87	86	85	85	85
7	99	93	89	87	98	93	89	87	92	88	86	91	88	86	90	87	85	84	84	84	83
8	97	91	87	85	96	90	87	85	90	86	84	89	86	84	88	85	84	82	82	82	81
9	95	89	85	83	94	88	85	83	88	85	82	87	84	82	86	84	82	80	80	80	80
10	93	87	83	81	92	87	83	81	86	83	81	85	83	81	85	82	80	80	80	80	80

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1048419
5°	973620
10°	661726
15°	218910
20°	74347
25°	37667
30°	19463
35°	6386
40°	2377
45°	1260
50°	362
55°	405
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	47.6
10°-20°	177.6	39.8
20°-30°	43.0	9.6
30°-40°	11.1	2.5
40°-50°	1.8	0.4
50°-60°	0.3	0.1
60°-70°	0.0	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°	433.2	97.0
0°-40°	444.3	99.5
0°-60°	446.5	100.0
0°-90°	446.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	446.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2706	
5°	2503	213
15°	546	178
25°	88	43
35°	14	11
45°	2	2
55°	1	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2705.7
2.5°	2660.5
5°	2503.1
7.5°	2177.0
10°	1681.8
12.5°	1040.3
15°	545.7
17.5°	294.9
20°	180.3
22.5°	124.5
25°	88.1
27.5°	62.3
30°	43.5
32.5°	30.5
35°	13.5
37.5°	5.9
40°	4.7
42.5°	3.5
45°	2.3
47.5°	1.2
50°	0.6
52.5°	0.6
55°	0.6
57.5°	0.0
60°	0.0
62.5°	0.0
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



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— 0°-180°







(END OF REPORT)