

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: P223719

Luminaire Tested: **LD2B05D010 EU2B05SP159035 2LBDLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223719
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 EU2B05SP159035 2LBDLC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
LENSED CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 339.0 lumens
Efficiency: N/A
Efficacy: 46.4 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

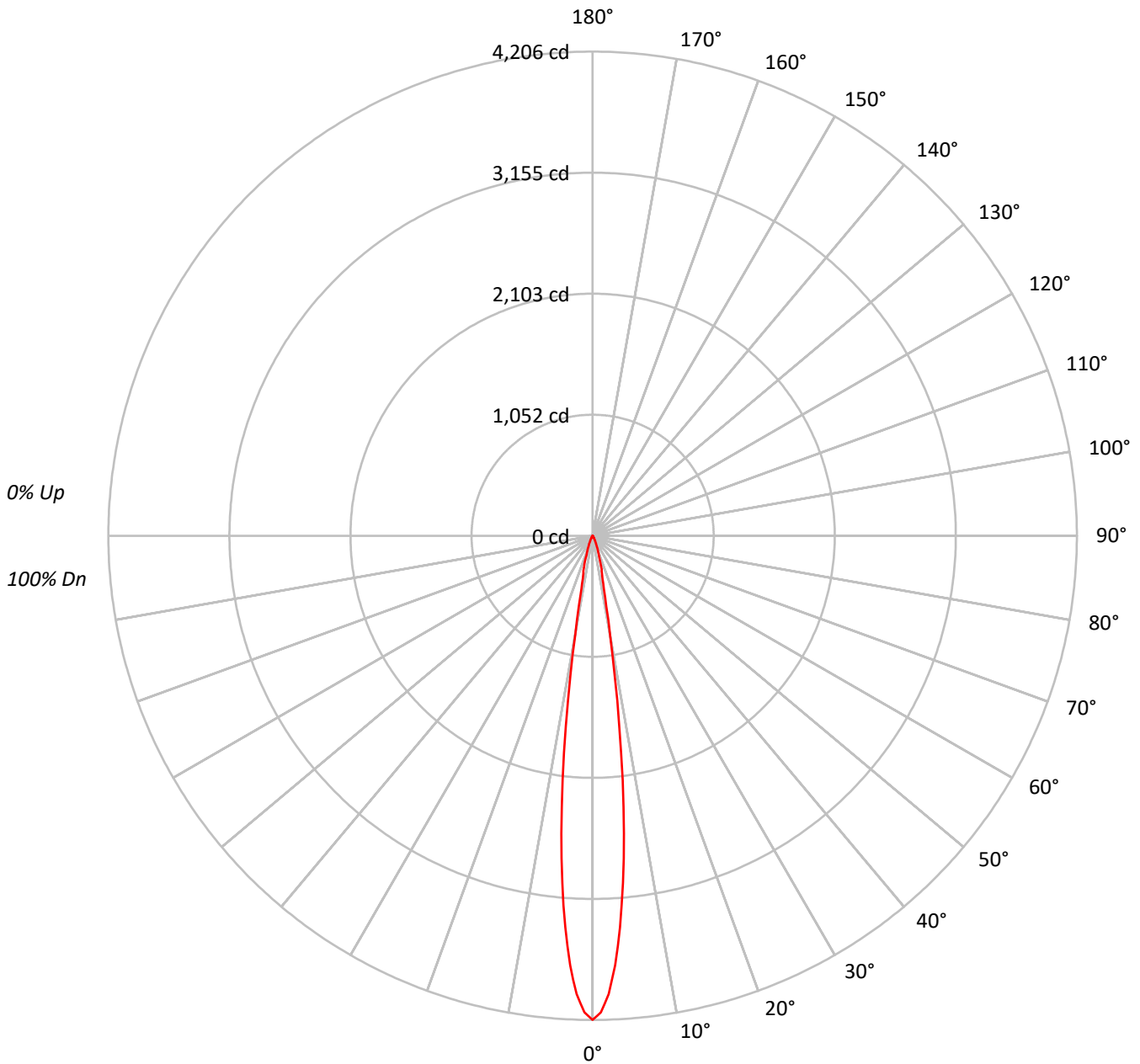
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	89	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°	1628984
5°	1177597
10°	342819
15°	120303
20°	51484
25°	23164
30°	8945
35°	4445
40°	2983
45°	1917
50°	1085
55°	810
60°	465
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.3	63.2
10°-20°	87.2	25.7
20°-30°	26.8	7.9
30°-40°	6.6	1.9
40°-50°	2.8	0.8
50°-60°	1.2	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°	328.2	96.8
0°-40°	334.9	98.8
0°-60°	338.8	99.9
0°-90°	339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	339.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4206	
5°	3029	214
15°	300	87
25°	54	27
35°	9	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4205.5
1°	4141.2
2°	3984.5
3°	3734.6
4°	3408.1
5°	3028.6
6°	2600.7
7°	2136.3
8°	1665.4
9°	1225.2
10°	871.6
11°	624.7
12°	469.7
13°	382.5
14°	334.7
15°	300.0
17.5°	185.0
20°	124.9
22.5°	83.7
25°	54.2
27.5°	33.0
30°	20.0
32.5°	13.0
35°	9.4
37.5°	7.7
40°	5.9
42.5°	4.7
45°	3.5
47.5°	2.4
50°	1.8
52.5°	1.8
55°	1.2
57.5°	1.2
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



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)