

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: P264432

Luminaire Tested: **LD2B05D010 EU2B0510SP159050 2LBD*LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P264432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1805-787-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B0510SP159050 2LBD*LI
Description: 500 Lumen, 2inch Portfolio LED Downlight
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 634.1 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

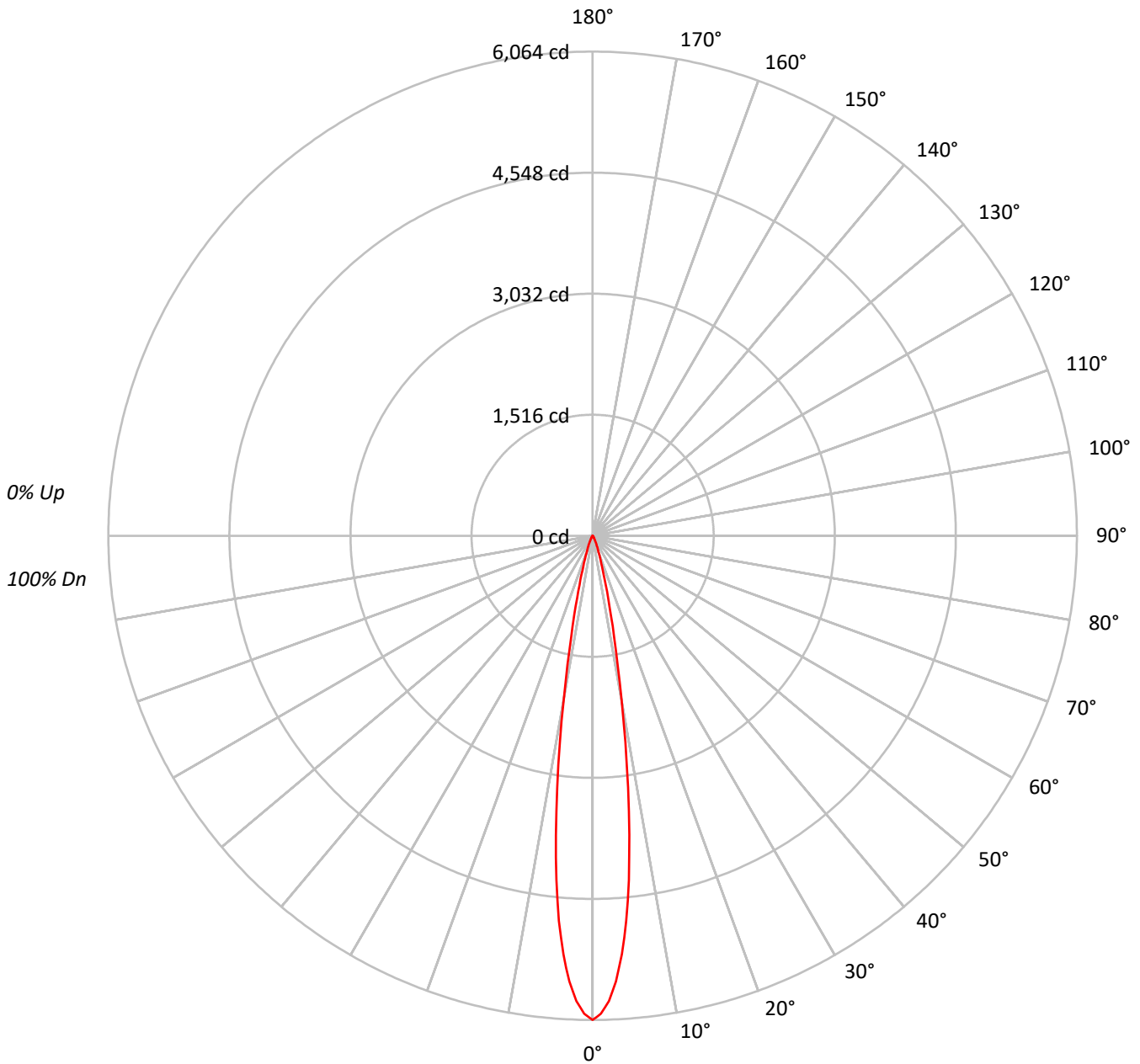
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P264432

CATALOG NUMBER: LD2B05D010 EU2B0510SP159050 2LBD*LI

Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2991598
5°	2397933
10°	1046582
15°	324336
20°	113090
25°	49918
30°	22616
35°	11745
40°	6698
45°	3210
50°	1996
55°	1118
60°	691
65°	817
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.7	58.0
10°-20°	201.4	31.8
20°-30°	45.9	7.2
30°-40°	13.2	2.1
40°-50°	4.1	0.6
50°-60°	1.2	0.2
60°-70°	0.6	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°	614.9	97.0
0°-40°	628.1	99.1
0°-60°	633.5	99.9
0°-90°	634.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6064	
5°	4842	368
15°	635	201
25°	92	46
35°	20	13
45°	5	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6063.7
1°	5988.2
2°	5831.4
3°	5588.1
4°	5253.7
5°	4841.9
6°	4337.0
7°	3772.9
8°	3184.1
9°	2614.2
10°	2089.1
11°	1644.7
12°	1294.7
13°	1018.9
14°	804.8
15°	635.0
16°	501.0
17°	398.8
18°	320.8
19°	260.9
20°	215.4
22.5°	139.2
25°	91.7
26°	77.4
27°	65.7
28°	55.3
29°	46.2
30°	39.7
32.5°	27.3
35°	19.5
37.5°	14.3
40°	10.4
42.5°	7.2
45°	4.6
47.5°	3.3
50°	2.6
52.5°	2.0
55°	1.3
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7
67.5°	0.7



TEST NUMBER: P264432

CATALOG NUMBER: LD2B05D010 EU2B0510SP159050 2LBD*LI

CANDELA DISTRIBUTION (continued):

	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°







70°		0.0
72.5°		0.0



(END OF REPORT)