

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: P264441

Luminaire Tested: **LD2B05D010 EU2B0510SP159050 2LBDC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P264441
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 2LBDC*MMS
Description: 500 Lumen, 2inch Portfolio LED Downlight
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 606.0 lumens
Efficiency: N/A
Efficacy: 83.0 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

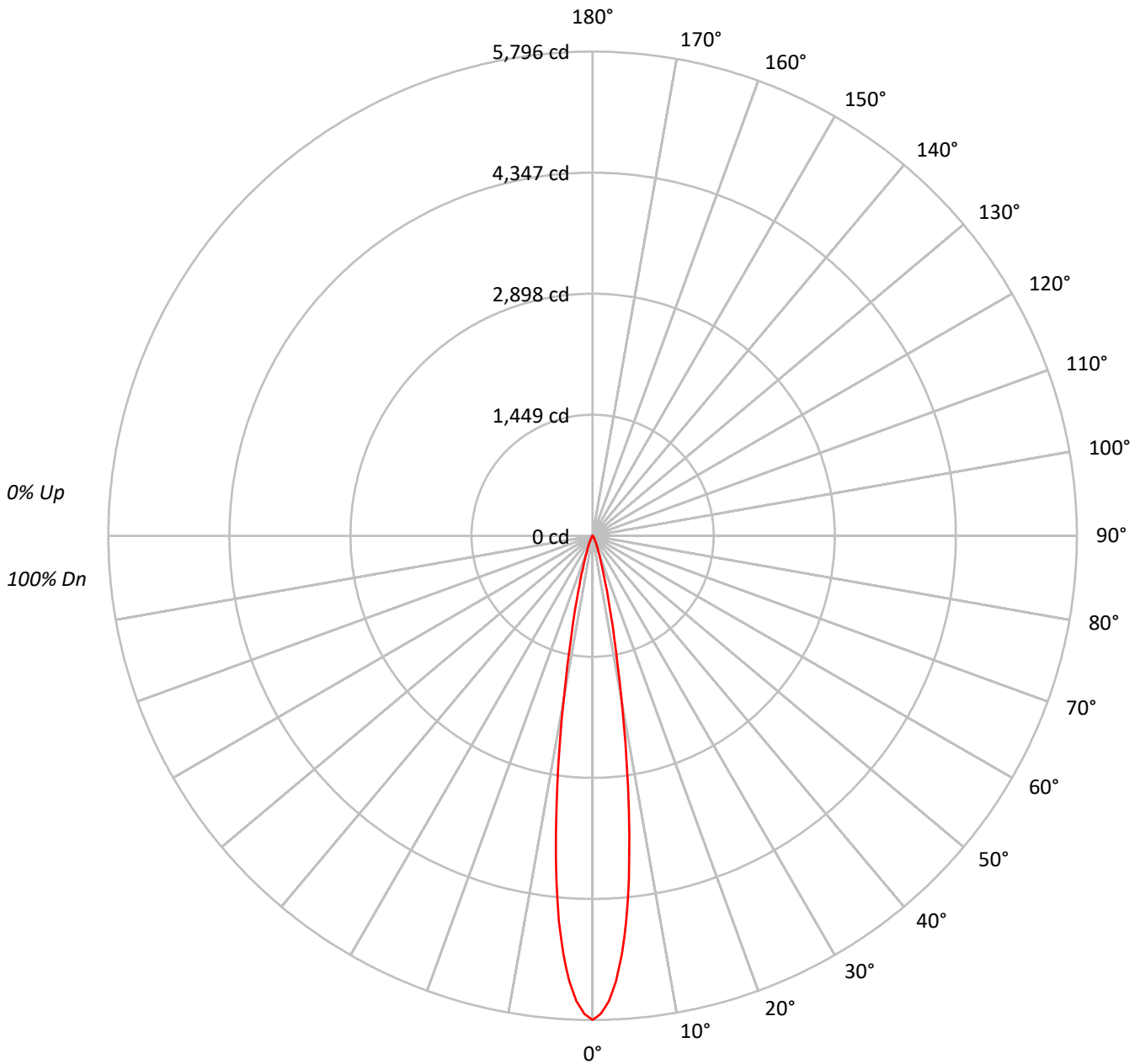
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P264441

CATALOG NUMBER: LD2B05D010 EU2B0510SP159050 2LBDC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P264441

CATALOG NUMBER: LD2B05D010 EU2B0510SP159050 2LBDC*MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2859476
5°	2292000
10°	1000392
15°	310035
20°	108050
25°	47741
30°	21591
35°	11263
40°	6440
45°	3070
50°	1919
55°	1032
60°	592
65°	700
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P264441

CATALOG NUMBER: LD2B05D010 EU2B0510SP159050 2LBDC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.4	58.0
10°-20°	192.5	31.8
20°-30°	43.9	7.2
30°-40°	12.6	2.1
40°-50°	3.9	0.6
50°-60°	1.2	0.2
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°	587.8	97.0
0°-40°	600.4	99.1
0°-60°	605.5	99.9
0°-90°	606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	606.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5796	
5°	4628	351
15°	607	192
25°	88	44
35°	19	13
45°	4	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P264441

CATALOG NUMBER: LD2B05D010 EU2B0510SP159050 2LBDC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	5795.9
1°	5723.8
2°	5573.9
3°	5341.3
4°	5021.7
5°	4628.0
6°	4145.4
7°	3606.3
8°	3043.5
9°	2498.7
10°	1996.9
11°	1572.1
12°	1237.5
13°	973.9
14°	769.3
15°	607.0
16°	478.8
17°	381.2
18°	306.6
19°	249.4
20°	205.8
22.5°	133.1
25°	87.7
26°	74.0
27°	62.8
28°	52.9
29°	44.2
30°	37.9
32.5°	26.1
35°	18.7
37.5°	13.7
40°	10.0
42.5°	6.8
45°	4.4
47.5°	3.1
50°	2.5
52.5°	1.9
55°	1.2
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.6



TEST NUMBER: P264441

CATALOG NUMBER: LD2B05D010 EU2B0510SP159050 2LBDC*MMS

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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







70°		0.0
72.5°		0.0



(END OF REPORT)