

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: P264175

Luminaire Tested: **LD2B05D010 EU2B0510SP159024 2LBD*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P264175
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 EU2B0510SP159024 2LBD*GPH
Description: 500 Lumen, 2inch Portfolio LED Downlight
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 494.0 lumens
Efficiency: N/A
Efficacy: 67.7 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

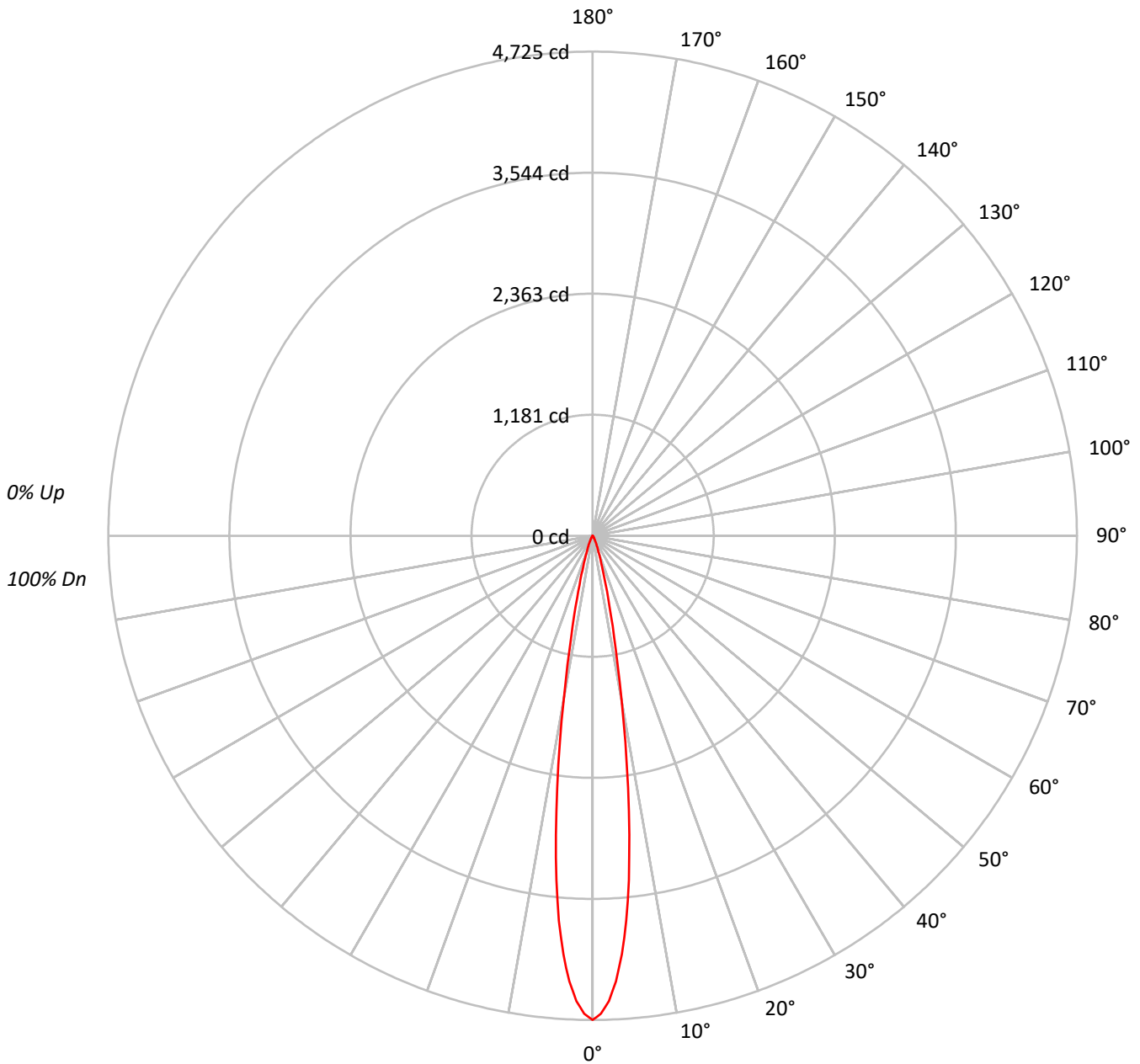
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P264175

CATALOG NUMBER: LD2B05D010 EU2B0510SP159024 2LBD*GPH

Luminous Intensity Polar Plot





TEST NUMBER: P264175

CATALOG NUMBER: LD2B05D010 EU2B0510SP159024 2LBD*GPH

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	95	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	85	89	86	84	88	86	84	83				83

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2330986
5°	1868416
10°	815483
15°	252727
20°	88099
25°	38922
30°	17603
35°	9155
40°	5217
45°	2442
50°	1535
55°	860
60°	493
65°	584
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P264175

CATALOG NUMBER: LD2B05D010 EU2B0510SP159024 2LBD*GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	58.0
10°-20°	156.9	31.8
20°-30°	35.8	7.2
30°-40°	10.3	2.1
40°-50°	3.2	0.6
50°-60°	0.9	0.2
60°-70°	0.4	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°	479.2	97.0
0°-40°	489.4	99.1
0°-60°	493.5	99.9
0°-90°	494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	494.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4725	
5°	3773	286
15°	495	157
25°	72	36
35°	15	10
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P264175

CATALOG NUMBER: LD2B05D010 EU2B0510SP159024 2LBD*GPH

CANDELA DISTRIBUTION (FULL):

	0°
0°	4724.7
1°	4665.9
2°	4543.7
3°	4354.1
4°	4093.6
5°	3772.7
6°	3379.3
7°	2939.8
8°	2481.0
9°	2036.9
10°	1627.8
11°	1281.6
12°	1008.8
13°	793.9
14°	627.1
15°	494.8
16°	390.3
17°	310.8
18°	249.9
19°	203.3
20°	167.8
22.5°	108.5
25°	71.5
26°	60.3
27°	51.2
28°	43.1
29°	36.0
30°	30.9
32.5°	21.3
35°	15.2
37.5°	11.2
40°	8.1
42.5°	5.6
45°	3.5
47.5°	2.5
50°	2.0
52.5°	1.5
55°	1.0
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5
67.5°	0.5



TEST NUMBER: P264175

CATALOG NUMBER: LD2B05D010 EU2B0510SP159024 2LBD*GPH

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)