

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: P264494

Luminaire Tested: **LD2B05D010 EU2B0510SP159727 2LBSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264494  
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 EU2B0510SP159727 2LBSQC\*MB  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 496.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 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

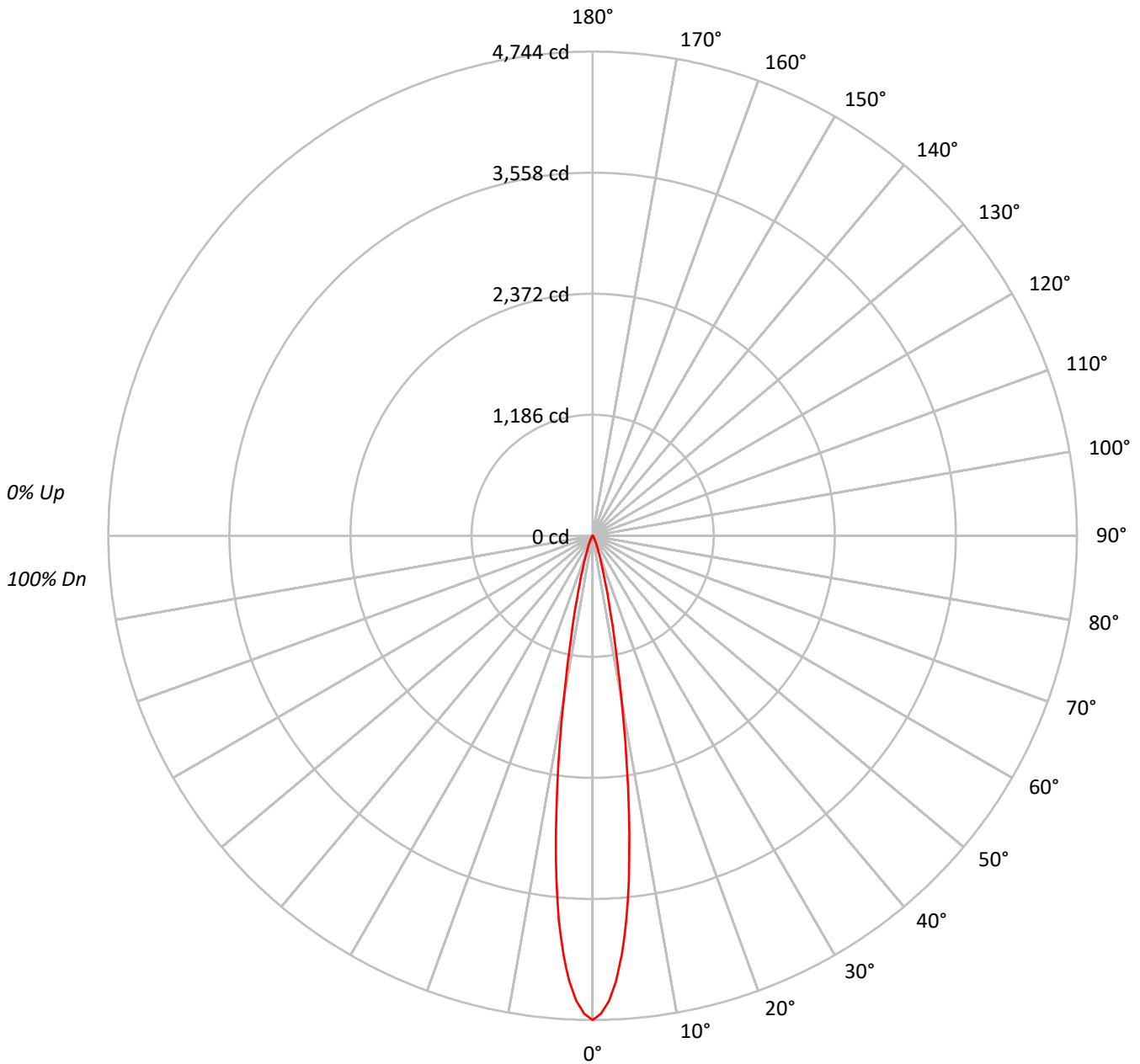
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P264494

CATALOG NUMBER: LD2B05D010 EU2B0510SP159727 2LBSQC\*MB

### Luminous Intensity Polar Plot





TEST NUMBER: P264494

CATALOG NUMBER: LD2B05D010 EU2B0510SP159727 2LBSQC\*MB

**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			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98			
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96			
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94			
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92			
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90			
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89			
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87			
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86			
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	85			
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2340410
5°	1875944
10°	818790
15°	253748
20°	88467
25°	39085
30°	17660
35°	9215
40°	5217
45°	2512
50°	1535
55°	860
60°	493
65°	584
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P264494

CATALOG NUMBER: LD2B05D010 EU2B0510SP159727 2LBSQC\*MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.7	58.0
10°-20°	157.5	31.8
20°-30°	35.9	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°	481.1	97.0
0°-40°	491.4	99.1
0°-60°	495.5	99.9
0°-90°	496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	496.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4744	
5°	3788	288
15°	497	158
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: P264494

CATALOG NUMBER: LD2B05D010 EU2B0510SP159727 2LBSQC\*MB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4743.8
1°	4684.8
2°	4562.1
3°	4371.8
4°	4110.1
5°	3787.9
6°	3393.0
7°	2951.7
8°	2491.0
9°	2045.1
10°	1634.4
11°	1286.7
12°	1012.9
13°	797.1
14°	629.6
15°	496.8
16°	391.9
17°	312.0
18°	250.9
19°	204.1
20°	168.5
22.5°	108.9
25°	71.8
26°	60.6
27°	51.4
28°	43.3
29°	36.1
30°	31.0
32.5°	21.4
35°	15.3
37.5°	11.2
40°	8.1
42.5°	5.6
45°	3.6
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: P264494

CATALOG NUMBER: LD2B05D010 EU2B0510SP159727 2LBSQC\*MB

**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)