

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: P223613

Luminaire Tested: **LD2B05D010 EU2B05SP159727 2LBDSQC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223613  
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 EU2B05SP159727 2LBDSQC\*MW  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
SQUARE CAST TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 294.0 lumens  
Efficiency: N/A  
Efficacy: 40.3 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

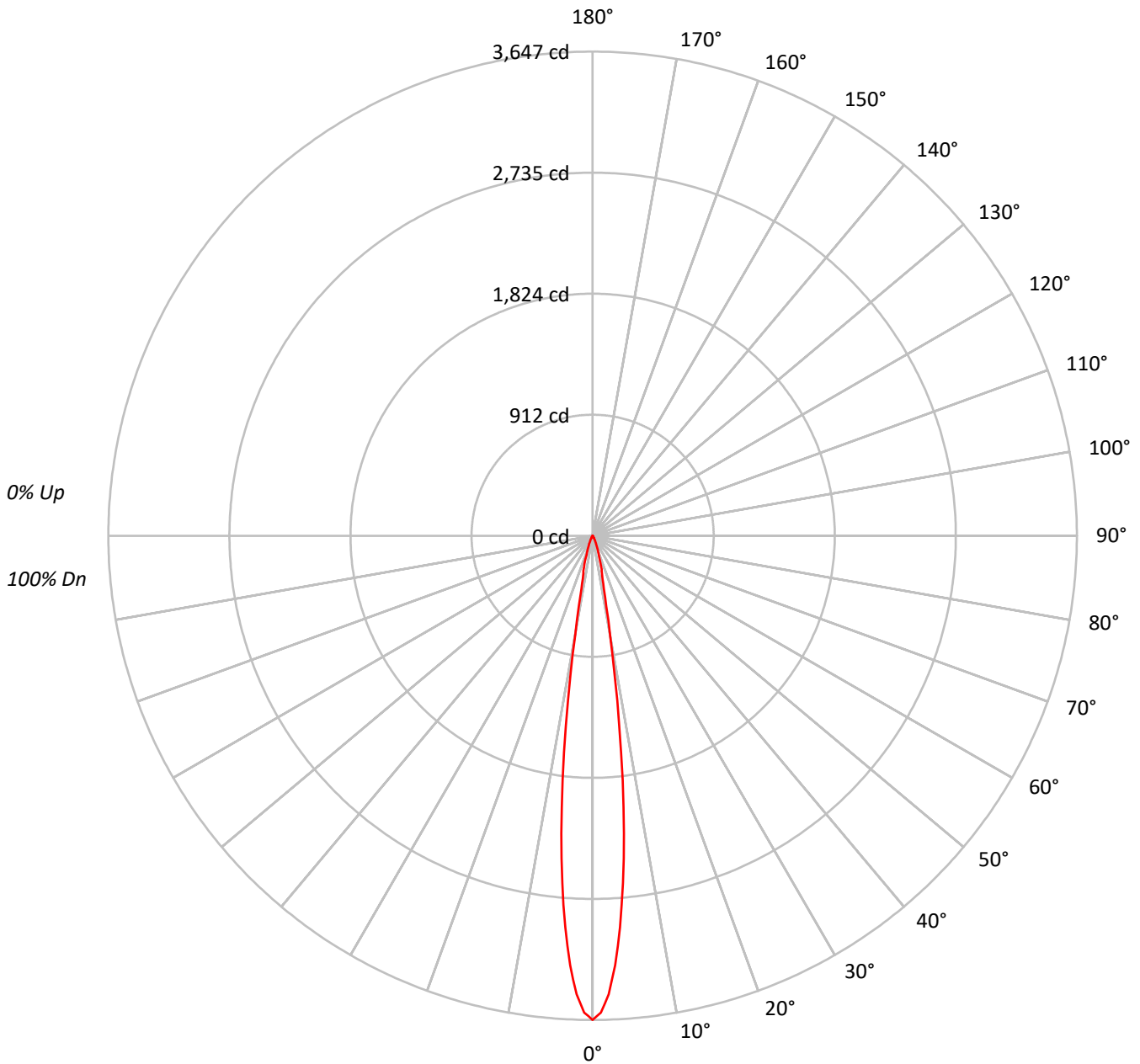
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223613

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQC\*MW

### Luminous Intensity Polar Plot





TEST NUMBER: P223613

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQC\*MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	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	99	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	96	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	90	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°	1412728
5°	1021250
10°	297312
15°	104303
20°	44683
25°	20087
30°	7782
35°	3877
40°	2579
45°	1698
50°	904
55°	675
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223613

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQC\*MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.9	63.2
10°-20°	75.6	25.7
20°-30°	23.2	7.9
30°-40°	5.7	1.9
40°-50°	2.4	0.8
50°-60°	1.0	0.3
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°	284.7	96.8
0°-40°	290.4	98.8
0°-60°	293.8	99.9
0°-90°	294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	294.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3647	
5°	2626	186
15°	260	76
25°	47	23
35°	8	6
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223613

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQC\*MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3647.2
1°	3591.5
2°	3455.5
3°	3238.8
4°	2955.7
5°	2626.5
6°	2255.5
7°	1852.7
8°	1444.4
9°	1062.6
10°	755.9
11°	541.8
12°	407.3
13°	331.7
14°	290.3
15°	260.1
17.5°	160.5
20°	108.4
22.5°	72.6
25°	47.0
27.5°	28.6
30°	17.4
32.5°	11.2
35°	8.2
37.5°	6.6
40°	5.1
42.5°	4.1
45°	3.1
47.5°	2.0
50°	1.5
52.5°	1.5
55°	1.0
57.5°	1.0
60°	0.5
62.5°	0.5
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



TEST NUMBER: P223613

CATALOG NUMBER: LD2B05D010 EU2B05SP159727 2LBDSQC\*MW

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)