

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: P206000

Luminaire Tested: **LD4B10D010 EU4B10209727 4LBSB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209727 4LBSB1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH SPECULAR BLACK TRIM  
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W  
DL3-11.1W DLE-11.39W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 661.9 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

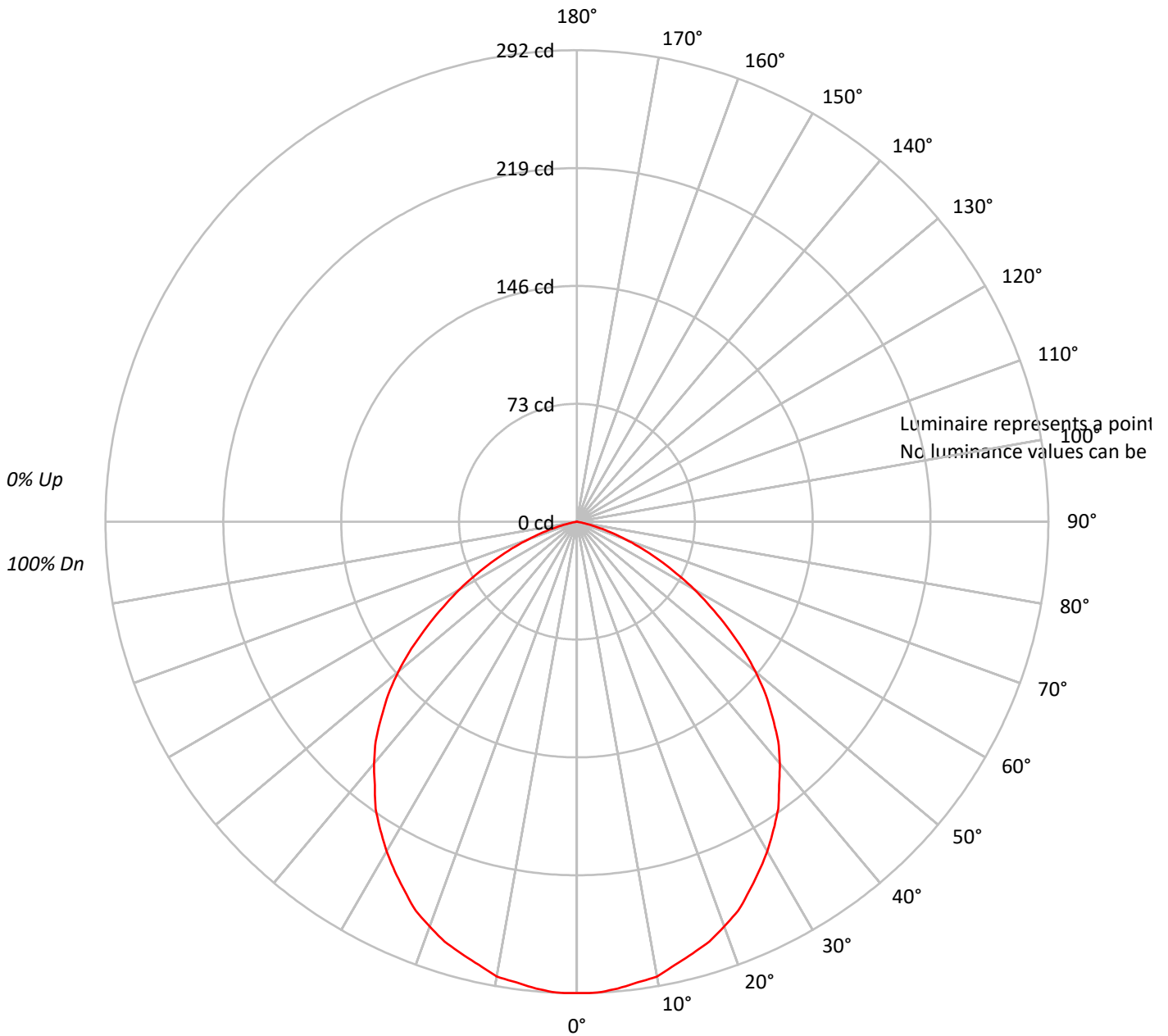
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P206000

CATALOG NUMBER: LD4B10D010 EU4B10209727 4LBSB1

### Luminous Intensity Polar Plot





TEST NUMBER: P206000

CATALOG NUMBER: LD4B10D010 EU4B10209727 4LBSB1

**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	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			

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





TEST NUMBER: P206000

CATALOG NUMBER: LD4B10D010 EU4B10209727 4LBSB1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.6	4.2
10°-20°	78.2	11.8
20°-30°	116.3	17.6
30°-40°	135.4	20.4
40°-50°	131.9	19.9
50°-60°	101.5	15.3
60°-70°	56.1	8.5
70°-80°	14.9	2.2
80°-90°	0.1	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°	222.1	33.6
0°-40°	357.4	54.0
0°-60°	590.9	89.3
0°-90°	661.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	292	
5°	290	28
15°	277	78
25°	252	116
35°	217	135
45°	171	132
55°	113	101
65°	56	56
75°	13	15
85°	0	0
90°	0	



TEST NUMBER: P206000

CATALOG NUMBER: LD4B10D010 EU4B10209727 4LBSB1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	292.0
2.5°	292.0
5°	290.3
7.5°	287.8
10°	286.1
12.5°	281.1
15°	276.9
17.5°	272.7
20°	266.8
22.5°	260.9
25°	252.5
27.5°	244.2
30°	235.8
32.5°	226.5
35°	217.3
37.5°	205.6
40°	195.5
42.5°	184.6
45°	171.2
47.5°	158.6
50°	144.3
52.5°	129.2
55°	113.3
57.5°	98.2
60°	83.9
62.5°	69.6
65°	56.2
67.5°	43.6
70°	31.9
72.5°	21.8
75°	12.6
77.5°	5.9
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)