

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: P205959

Luminaire Tested: **LD4B50D010TE EU4B30509040 4LBSGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205959  
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: LD4B50D010TE EU4B30509040 4LBSGPH1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4065.2 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

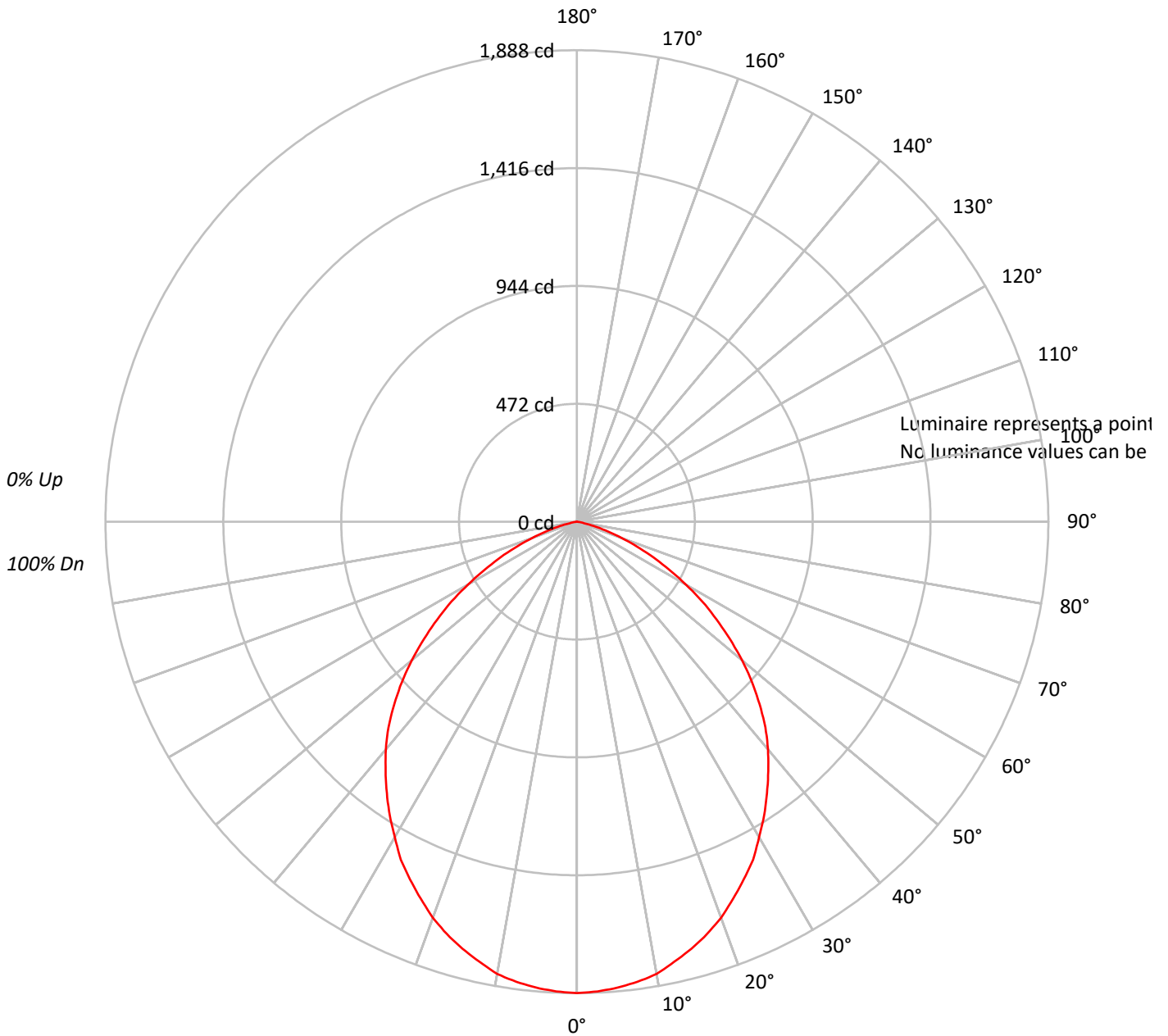
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P205959

CATALOG NUMBER: LD4B50D010TE EU4B30509040 4LBSGPH1

### Luminous Intensity Polar Plot





TEST NUMBER: P205959

CATALOG NUMBER: LD4B50D010TE EU4B30509040 4LBSGPH1

**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			100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88			88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76			76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			66
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57			57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50			50
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45			45
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32			32
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30			30

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





TEST NUMBER: P205959

CATALOG NUMBER: LD4B50D010TE EU4B30509040 4LBSGPH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.8	4.4
10°-20°	499.0	12.3
20°-30°	727.8	17.9
30°-40°	829.9	20.4
40°-50°	796.1	19.6
50°-60°	609.7	15.0
60°-70°	334.6	8.2
70°-80°	89.0	2.2
80°-90°	1.3	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°	1404.5	34.6
0°-40°	2234.4	55.0
0°-60°	3640.2	89.5
0°-90°	4065.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4065.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1888	
5°	1873	178
15°	1771	499
25°	1581	728
35°	1327	830
45°	1034	796
55°	683	610
65°	337	335
75°	78	89
85°	0	1
90°	0	



TEST NUMBER: P205959

CATALOG NUMBER: LD4B50D010TE EU4B30509040 4LBSGPH1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1888.0
2.5°	1883.2
5°	1873.4
7.5°	1858.8
10°	1839.3
12.5°	1805.1
15°	1771.0
17.5°	1731.9
20°	1688.0
22.5°	1634.4
25°	1580.7
27.5°	1527.0
30°	1458.7
32.5°	1395.3
35°	1327.0
37.5°	1258.7
40°	1190.4
42.5°	1117.2
45°	1034.3
47.5°	951.3
50°	863.5
52.5°	770.8
55°	683.0
57.5°	595.2
60°	502.5
62.5°	414.7
65°	336.6
67.5°	258.6
70°	190.3
72.5°	126.8
75°	78.1
77.5°	34.2
80°	9.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)