

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: P208216

Luminaire Tested: **LD4B50D010TE EU4B30508027 4LBMLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208216
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 EU4B30508027 4LBMLI1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4665.2 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

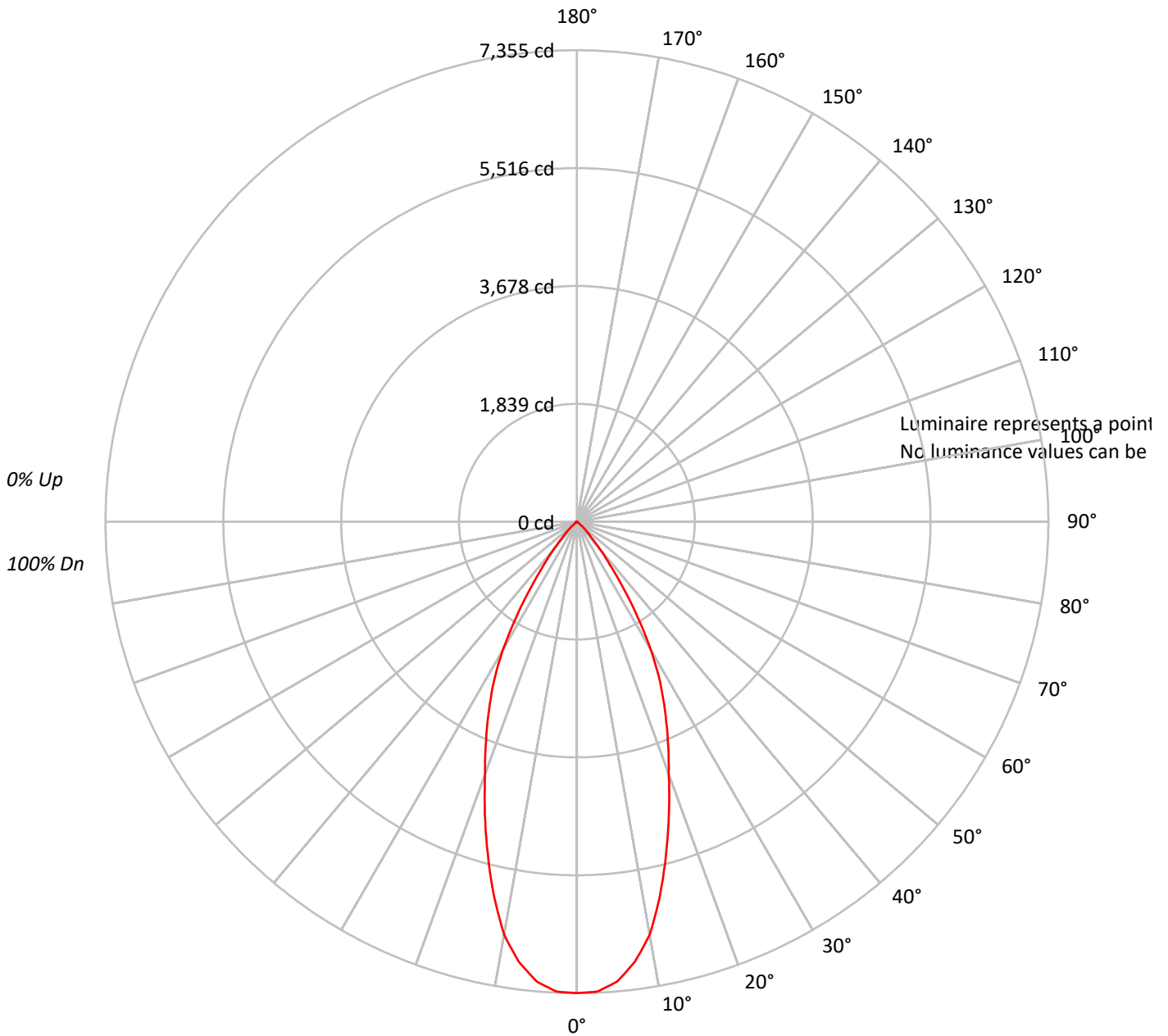
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208216

CATALOG NUMBER: LD4B50D010TE EU4B30508027 4LBMLI1

Luminous Intensity Polar Plot





TEST NUMBER: P208216

CATALOG NUMBER: LD4B50D010TE EU4B30508027 4LBMLI1

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94		
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88		
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83		
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78		
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73		
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69		
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65		
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62		
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58		
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P208216

CATALOG NUMBER: LD4B50D010TE EU4B30508027 4LBMLI1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.9	14.3
10°-20°	1488.7	31.9
20°-30°	1480.1	31.7
30°-40°	806.0	17.3
40°-50°	186.3	4.0
50°-60°	26.2	0.6
60°-70°	9.7	0.2
70°-80°	2.2	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°	3634.7	77.9
0°-40°	4440.7	95.2
0°-60°	4653.3	99.7
0°-90°	4665.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4665.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7355	
5°	7202	666
15°	5373	1489
25°	3246	1480
35°	1247	806
45°	214	186
55°	28	26
65°	11	10
75°	0	2
85°	0	0
90°	0	



TEST NUMBER: P208216

CATALOG NUMBER: LD4B50D010TE EU4B30508027 4LBML1

CANDELA DISTRIBUTION (FULL):

0°	
0°	7354.6
2.5°	7337.6
5°	7202.2
7.5°	6925.6
10°	6541.8
12.5°	5977.3
15°	5373.4
17.5°	4775.1
20°	4188.1
22.5°	3708.3
25°	3245.5
27.5°	2805.2
30°	2308.5
32.5°	1755.4
35°	1247.4
37.5°	841.0
40°	547.5
42.5°	344.3
45°	214.5
47.5°	124.2
50°	62.1
52.5°	33.9
55°	28.2
57.5°	16.9
60°	16.9
62.5°	11.3
65°	11.3
67.5°	5.6
70°	5.6
72.5°	5.6
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°







(END OF REPORT)