

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: P208400

Luminaire Tested: **LD4B30D010 EU4B30509027 4LBSLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208400
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: LD4B30D010 EU4B30509027 4LBSLI1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W
DL3-29.67W DLE-29.73W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2455.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

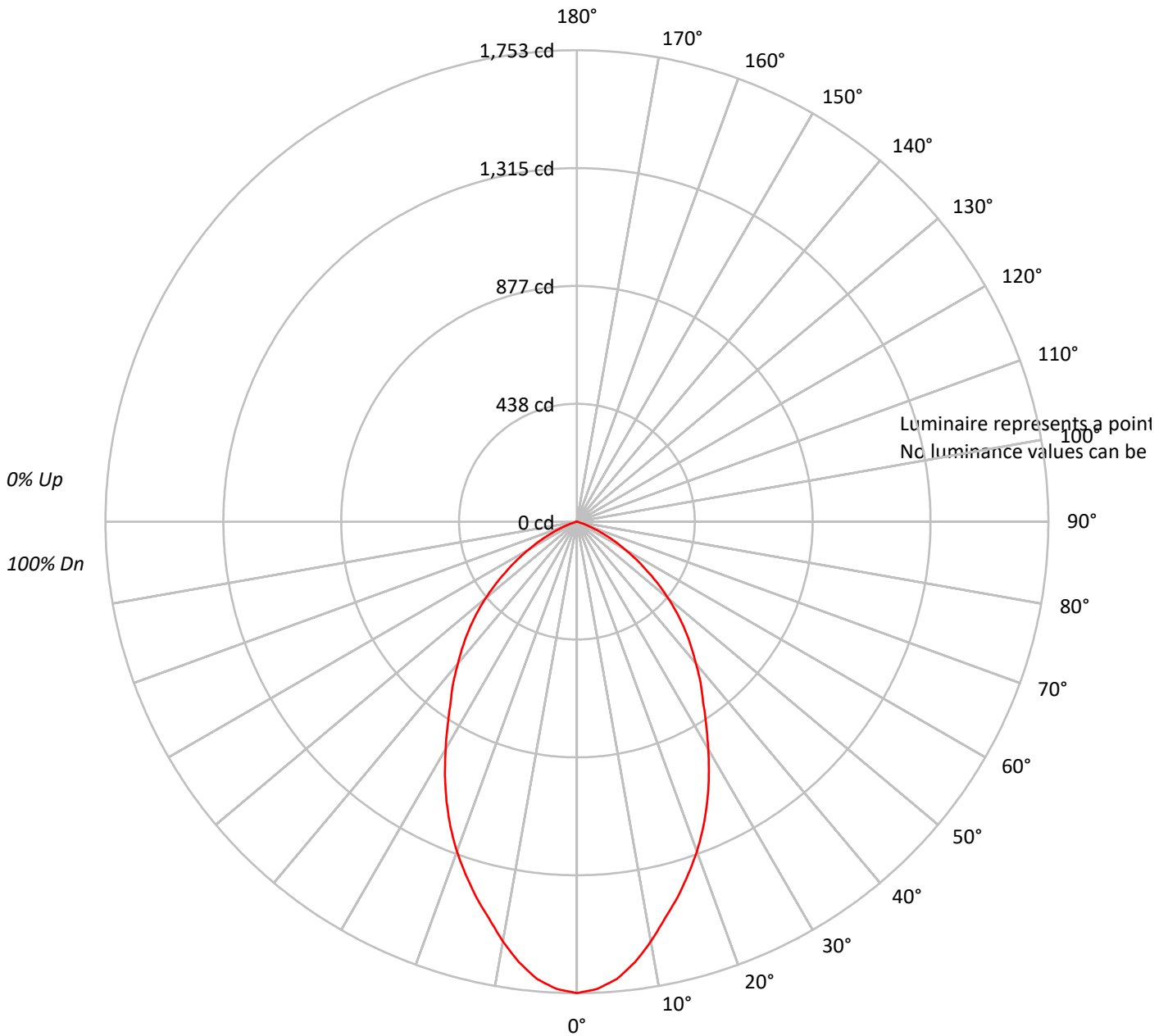
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208400

CATALOG NUMBER: LD4B30D010 EU4B30509027 4LBSLI1

Luminous Intensity Polar Plot





TEST NUMBER: P208400

CATALOG NUMBER: LD4B30D010 EU4B30509027 4LBSLI1

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P208400

CATALOG NUMBER: LD4B30D010 EU4B30509027 4LBSLI1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	6.5
10°-20°	405.4	16.5
20°-30°	525.3	21.4
30°-40°	514.7	21.0
40°-50°	436.3	17.8
50°-60°	286.0	11.6
60°-70°	114.9	4.7
70°-80°	13.1	0.5
80°-90°	0.4	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°	1089.6	44.4
0°-40°	1604.3	65.3
0°-60°	2326.5	94.8
0°-90°	2455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2455.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1753	
5°	1707	159
15°	1446	405
25°	1147	525
35°	818	515
45°	568	436
55°	318	286
65°	111	115
75°	5	13
85°	0	0
90°	0	



TEST NUMBER: P208400

CATALOG NUMBER: LD4B30D010 EU4B30509027 4LBSL11

CANDELA DISTRIBUTION (FULL):

0°	
0°	1752.9
2.5°	1739.4
5°	1706.7
7.5°	1652.4
10°	1584.4
12.5°	1511.1
15°	1445.8
17.5°	1375.2
20°	1304.5
22.5°	1228.4
25°	1146.9
27.5°	1062.6
30°	975.7
32.5°	894.1
35°	818.0
37.5°	755.5
40°	687.6
42.5°	627.8
45°	568.0
47.5°	505.5
50°	443.0
52.5°	380.5
55°	318.0
57.5°	260.9
60°	206.5
62.5°	157.6
65°	111.4
67.5°	73.4
70°	43.5
72.5°	19.0
75°	5.4
77.5°	2.7
80°	2.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)