

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: P208502

Luminaire Tested: **LD4B30D010 EU4B30509024 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208502
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 EU4B30509024 4LBNWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH WHEAT 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: 1384.9 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

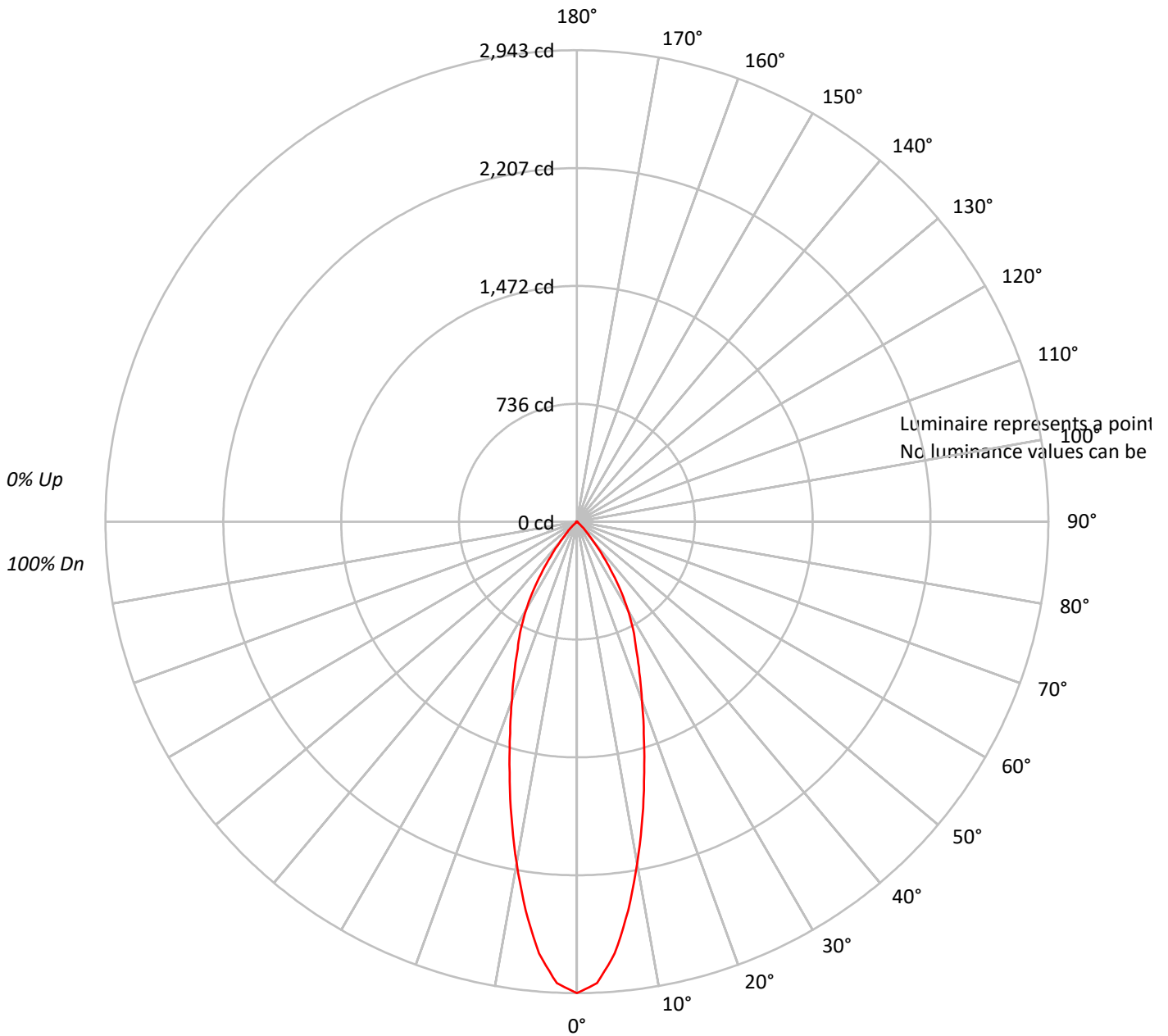
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208502

CATALOG NUMBER: LD4B30D010 EU4B30509024 4LBNWH1

Luminous Intensity Polar Plot





TEST NUMBER: P208502

CATALOG NUMBER: LD4B30D010 EU4B30509024 4LBNWH1

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	112	109	107	105	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89		
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84		
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79		
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75		
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71		
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67		
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64		
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61		
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P208502

CATALOG NUMBER: LD4B30D010 EU4B30509024 4LBNWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	17.4
10°-20°	451.5	32.6
20°-30°	405.1	29.2
30°-40°	232.4	16.8
40°-50°	46.4	3.3
50°-60°	5.9	0.4
60°-70°	2.7	0.2
70°-80°	0.3	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°	1097.2	79.2
0°-40°	1329.7	96.0
0°-60°	1381.9	99.8
0°-90°	1384.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1384.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2943	
5°	2706	241
15°	1621	451
25°	875	405
35°	368	232
45°	50	46
55°	7	6
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P208502

CATALOG NUMBER: LD4B30D010 EU4B30509024 4LBNWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	2943.1
2.5°	2883.3
5°	2706.4
7.5°	2448.2
10°	2166.1
12.5°	1888.8
15°	1621.0
17.5°	1386.7
20°	1185.9
22.5°	1018.5
25°	875.0
27.5°	760.3
30°	633.6
32.5°	504.5
35°	368.2
37.5°	251.0
40°	155.4
42.5°	93.2
45°	50.2
47.5°	21.5
50°	9.6
52.5°	7.2
55°	7.2
57.5°	4.8
60°	4.8
62.5°	2.4
65°	2.4
67.5°	2.4
70°	2.4
72.5°	0.0
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)