

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: P211919

Luminaire Tested: **LE_4B30D010 EC4B30509727 4LBPS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211919
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: LE_4B30D010 EC4B30509727 4LBPS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC MATTE WHITE 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: 3610.4 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

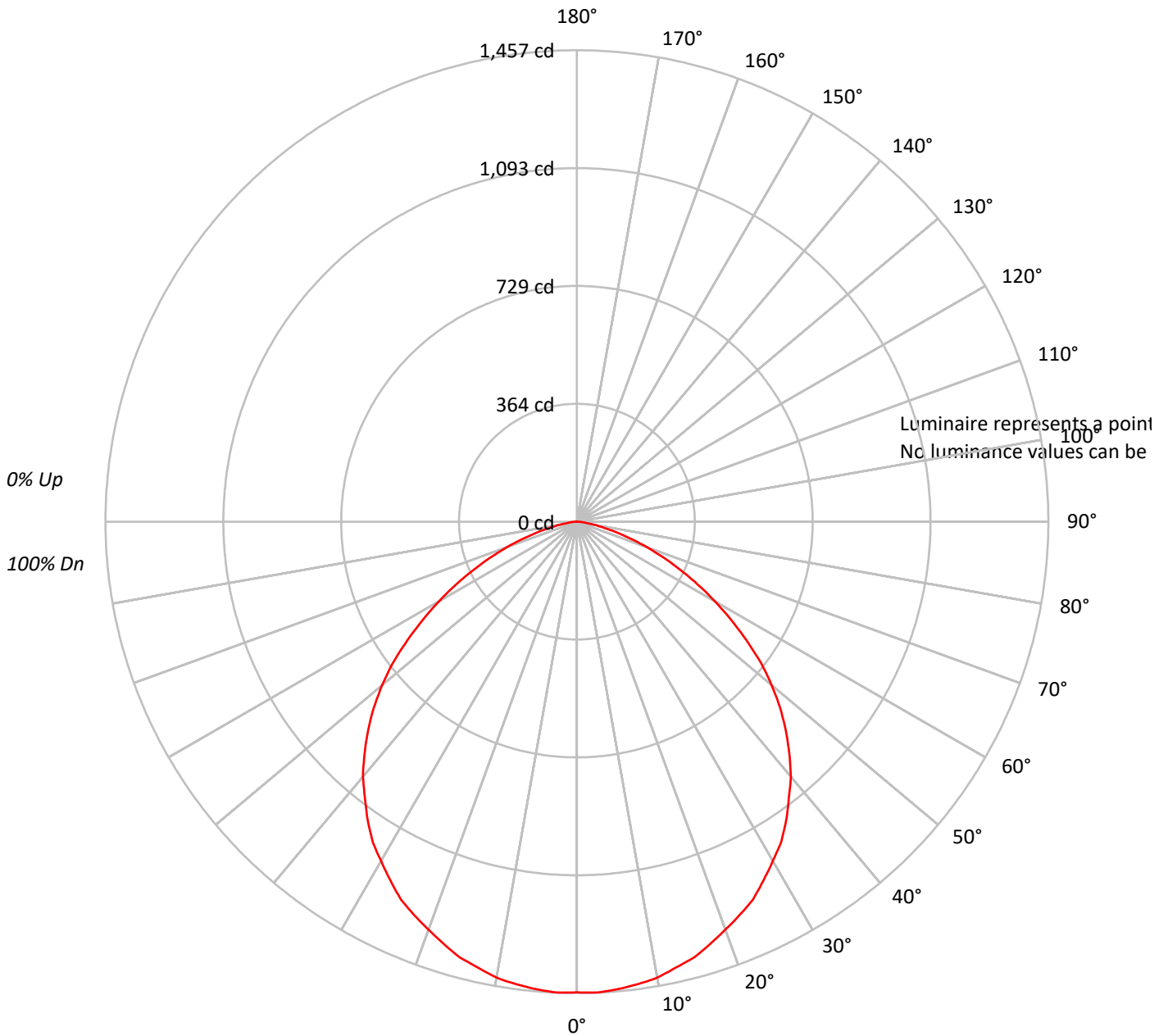
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211919

CATALOG NUMBER: LE_4B30D010 EC4B30509727 4LBPS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P211919

CATALOG NUMBER: LE_4B30D010 EC4B30509727 4LBPS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47				47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211919

CATALOG NUMBER: LE_4B30D010 EC4B30509727 4LBPS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.8
10°-20°	392.9	10.9
20°-30°	591.7	16.4
30°-40°	704.0	19.5
40°-50°	702.8	19.5
50°-60°	571.5	15.8
60°-70°	351.6	9.7
70°-80°	136.2	3.8
80°-90°	21.8	0.6
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°	1122.4	31.1
0°-40°	1826.4	50.6
0°-60°	3100.7	85.9
0°-90°	3610.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3610.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1455	
5°	1450	138
15°	1395	393
25°	1288	592
35°	1127	704
45°	913	703
55°	640	572
65°	353	352
75°	124	136
85°	17	22
90°	0	



TEST NUMBER: P211919

CATALOG NUMBER: LE_4B30D010 EC4B30509727 4LBPS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1454.6
2.5°	1456.7
5°	1450.3
7.5°	1441.8
10°	1431.1
12.5°	1411.8
15°	1394.8
17.5°	1369.0
20°	1341.3
22.5°	1315.6
25°	1287.8
27.5°	1249.3
30°	1210.8
32.5°	1174.4
35°	1127.3
37.5°	1076.0
40°	1028.9
42.5°	971.2
45°	913.4
47.5°	851.4
50°	785.1
52.5°	716.6
55°	639.6
57.5°	564.7
60°	492.0
62.5°	421.4
65°	353.0
67.5°	288.8
70°	228.9
72.5°	173.3
75°	124.1
77.5°	81.3
80°	49.2
82.5°	29.9
85°	17.2
87.5°	8.6
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)