

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: P211170

Luminaire Tested: **LE_4B15D010 EC4B10209727 4LBS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211170
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_4B15D010 EC4B10209727 4LBS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1268.5 lumens
Efficiency: N/A
Efficacy: 88.7 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

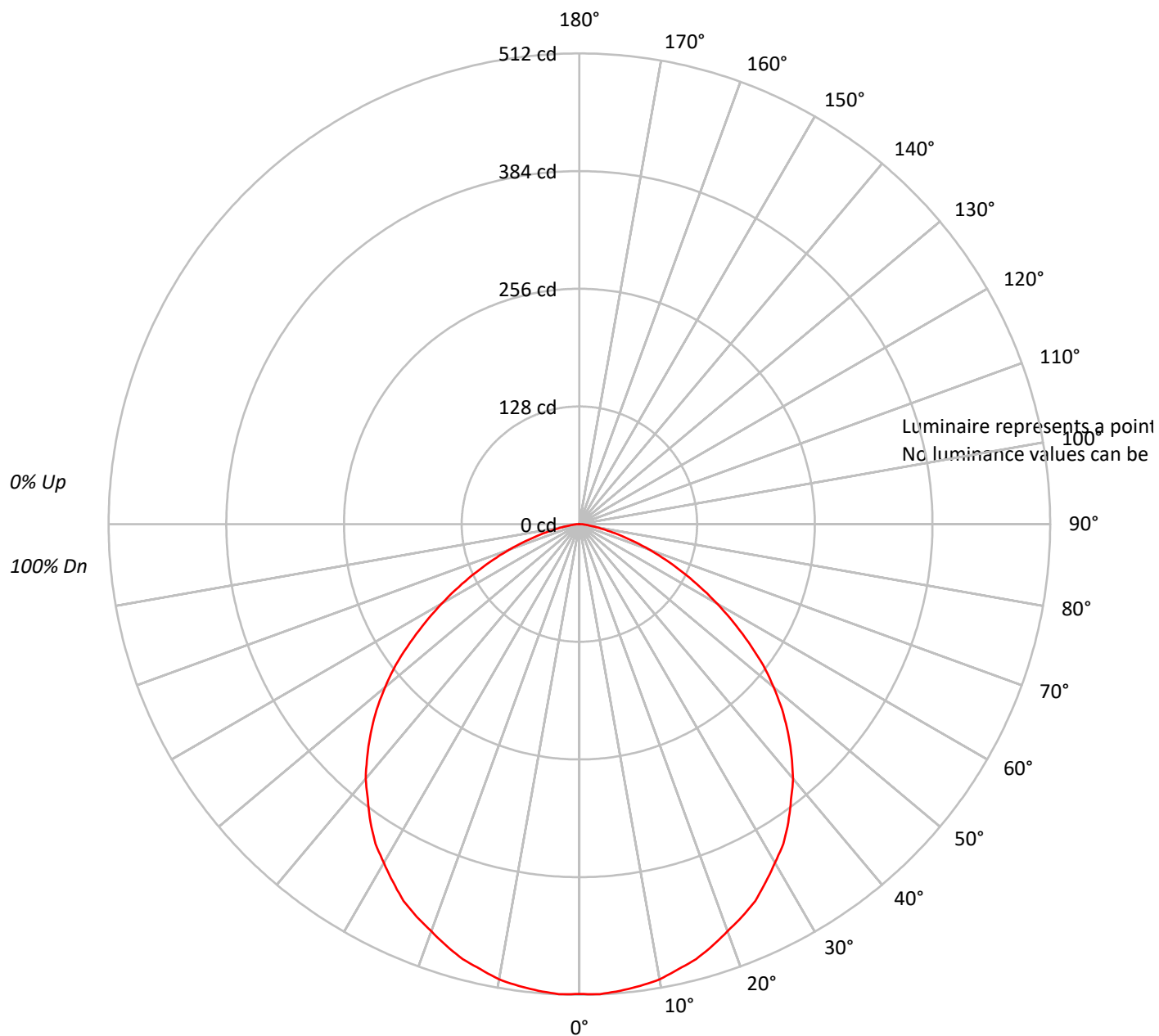
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211170

CATALOG NUMBER: LE_4B15D010 EC4B10209727 4LBS1MW

Luminous Intensity Polar Plot





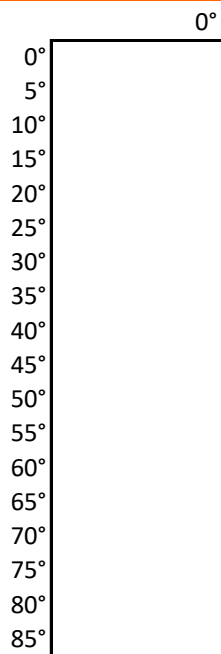
TEST NUMBER: P211170

CATALOG NUMBER: LE_4B15D010 EC4B10209727 4LBS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82
3	93	83	75	69	90	81	74	69	78	72	67		76	70	66		73
4	85	74	66	59	83	72	65	59	70	63	58		68	62	57		66
5	78	66	58	51	76	65	57	51	63	56	51		61	55	50		59
6	73	60	51	45	71	59	51	45	57	50	44		55	49	44		54
7	67	54	46	40	66	54	46	40	52	45	40		51	44	39		49
8	63	50	41	36	61	49	41	36	48	41	35		46	40	35		45
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211170

CATALOG NUMBER: LE_4B15D010 EC4B10209727 4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.8
10°-20°	138.0	10.9
20°-30°	207.9	16.4
30°-40°	247.4	19.5
40°-50°	247.0	19.5
50°-60°	200.8	15.8
60°-70°	123.5	9.7
70°-80°	47.8	3.8
80°-90°	7.7	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°	394.3	31.1
0°-40°	641.7	50.6
0°-60°	1089.4	85.9
0°-90°	1268.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1268.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	511	
5°	510	48
15°	490	138
25°	452	208
35°	396	247
45°	321	247
55°	225	201
65°	124	124
75°	44	48
85°	6	8
90°	0	



TEST NUMBER: P211170

CATALOG NUMBER: LE_4B15D010 EC4B10209727 4LBS1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	511.1
2.5°	511.8
5°	509.6
7.5°	506.6
10°	502.9
12.5°	496.0
15°	490.0
17.5°	481.1
20°	471.2
22.5°	462.3
25°	452.4
27.5°	438.9
30°	425.4
32.5°	412.6
35°	396.1
37.5°	378.0
40°	361.5
42.5°	341.3
45°	321.0
47.5°	299.2
50°	275.8
52.5°	251.8
55°	224.7
57.5°	198.4
60°	172.8
62.5°	148.0
65°	124.0
67.5°	101.5
70°	80.4
72.5°	60.9
75°	43.6
77.5°	28.5
80°	17.3
82.5°	10.6
85°	6.0
87.5°	3.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)