

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: P211370

Luminaire Tested: **LE_4B15D010 EC4B10209040 4LBS1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211370
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 EC4B10209040 4LBS1GPH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 1356.4 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

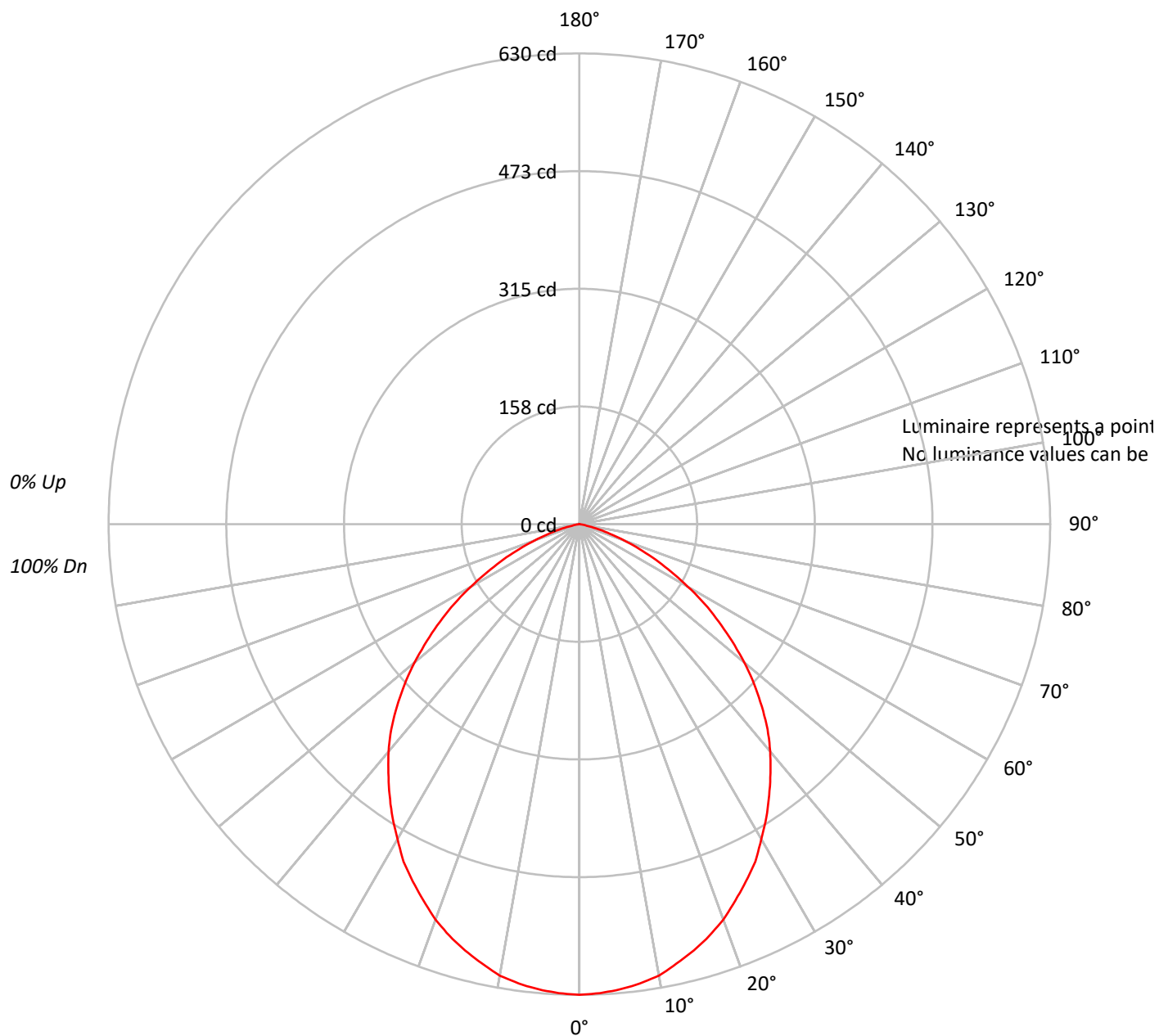
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211370

CATALOG NUMBER: LE_4B15D010 EC4B10209040 4LBS1GPH

Luminous Intensity Polar Plot





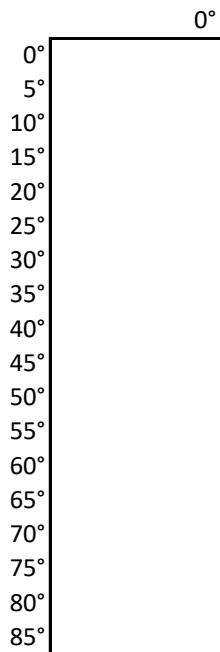
TEST NUMBER: P211370

CATALOG NUMBER: LE_4B15D010 EC4B10209040 4LBS1GPH

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	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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88		
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57		
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50		
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45		
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36		
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32		
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211370

CATALOG NUMBER: LE_4B15D010 EC4B10209040 4LBS1GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	4.4
10°-20°	166.5	12.3
20°-30°	242.8	17.9
30°-40°	276.9	20.4
40°-50°	265.6	19.6
50°-60°	203.4	15.0
60°-70°	111.6	8.2
70°-80°	29.7	2.2
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°	468.6	34.6
0°-40°	745.5	55.0
0°-60°	1214.6	89.5
0°-90°	1356.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	630	
5°	625	59
15°	591	166
25°	528	243
35°	443	277
45°	345	266
55°	228	203
65°	112	112
75°	26	30
85°	0	0
90°	0	



TEST NUMBER: P211370

CATALOG NUMBER: LE_4B15D010 EC4B10209040 4LBS1GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	630.0
2.5°	628.4
5°	625.1
7.5°	620.3
10°	613.6
12.5°	602.3
15°	590.9
17.5°	577.9
20°	563.2
22.5°	545.3
25°	527.5
27.5°	509.5
30°	486.7
32.5°	465.5
35°	442.8
37.5°	419.9
40°	397.2
42.5°	372.8
45°	345.1
47.5°	317.4
50°	288.1
52.5°	257.2
55°	227.9
57.5°	198.6
60°	167.6
62.5°	138.4
65°	112.3
67.5°	86.3
70°	63.5
72.5°	42.3
75°	26.1
77.5°	11.4
80°	3.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)