

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: P210884

Luminaire Tested: **LE_4B10D010 EC4B10209730 4LBW1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210884
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_4B10D010 EC4B10209730 4LBW1GPH
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 608.2 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

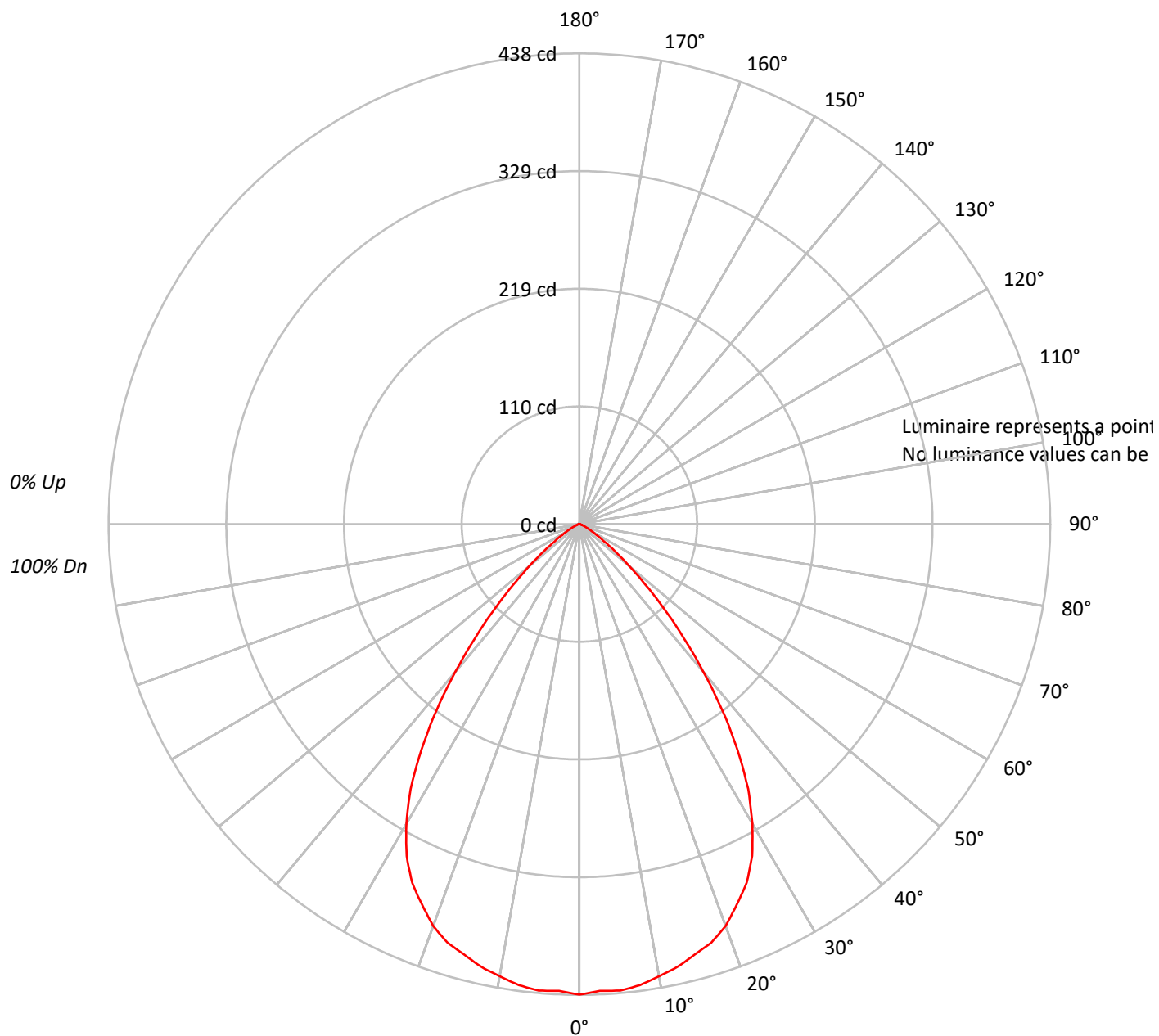
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210884

CATALOG NUMBER: LE_4B10D010 EC4B10209730 4LBW1GPH

Luminous Intensity Polar Plot





TEST NUMBER: P210884

CATALOG NUMBER: LE_4B10D010 EC4B10209730 4LBW1GPH

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	113	110	107	104	110	107	105	103	103	101	99		100	98	96		96
2	106	100	96	92	104	99	95	91	95	92	89		92	90	87		90
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	85	78	74	92	84	78	73	81	76	72		79	75	71		77
5	88	78	72	67	86	77	71	66	75	70	66		74	69	65		72
6	83	72	65	61	81	71	65	60	70	64	60		68	63	59		67
7	78	67	60	55	76	66	60	55	65	59	55		64	58	55		63
8	73	62	56	51	72	62	55	51	61	55	51		59	54	50		58
9	69	58	51	47	68	58	51	47	57	51	47		56	50	46		55
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210884

CATALOG NUMBER: LE_4B10D010 EC4B10209730 4LBW1GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	6.8
10°-20°	117.0	19.2
20°-30°	167.8	27.6
30°-40°	158.0	26.0
40°-50°	87.3	14.3
50°-60°	28.0	4.6
60°-70°	7.0	1.2
70°-80°	1.6	0.3
80°-90°	0.1	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°	326.2	53.6
0°-40°	484.2	79.6
0°-60°	599.5	98.6
0°-90°	608.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	608.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	438	
5°	436	41
15°	415	117
25°	368	168
35°	256	158
45°	111	87
55°	28	28
65°	6	7
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P210884

CATALOG NUMBER: LE_4B10D010 EC4B10209730 4LBW1GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	437.8
2.5°	434.7
5°	435.7
7.5°	432.6
10°	427.2
12.5°	422.0
15°	414.6
17.5°	408.3
20°	397.8
22.5°	382.9
25°	368.2
27.5°	348.1
30°	321.8
32.5°	292.2
35°	256.4
37.5°	218.4
40°	179.3
42.5°	143.5
45°	110.8
47.5°	83.3
50°	60.1
52.5°	42.2
55°	28.5
57.5°	19.0
60°	13.7
62.5°	9.5
65°	6.4
67.5°	4.2
70°	3.1
72.5°	2.1
75°	1.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)