

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: P210794

Luminaire Tested: **LE_4B10D010 EC4B10209727 4LBS1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210794
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 EC4B10209727 4LBS1WH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WHEAT 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: 878.4 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

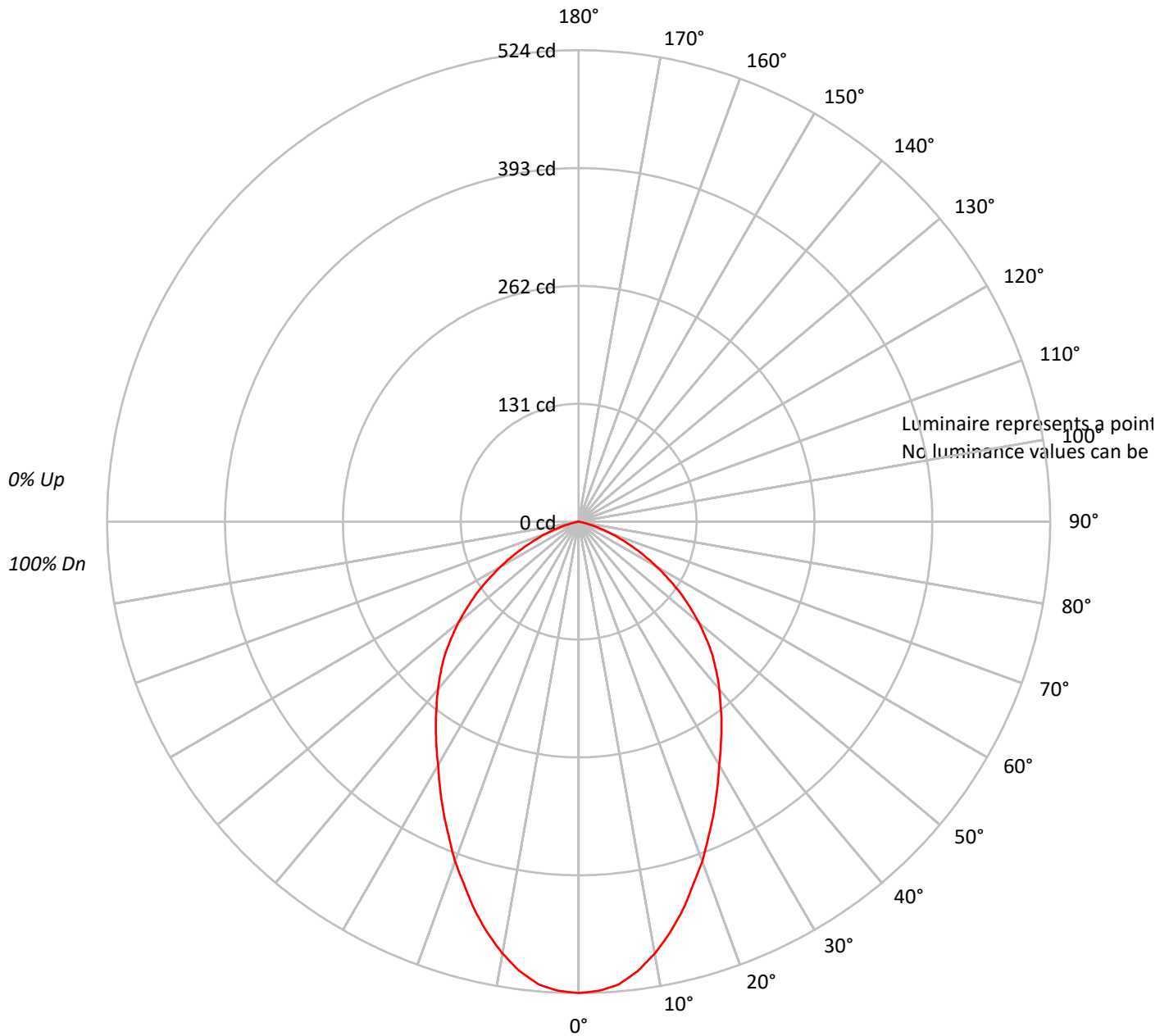
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210794

CATALOG NUMBER: LE_4B10D010 EC4B10209727 4LBS1WH

Luminous Intensity Polar Plot





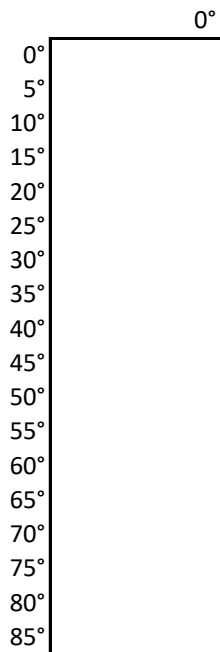
TEST NUMBER: P210794

CATALOG NUMBER: LE_4B10D010 EC4B10209727 4LBS1WH

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89	
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77	
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67	
4	88	77	70	64	86	76	69	63	74	68	63	72	66	62	69	65	61	59	
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52	
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47	
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42	
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38	
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35	
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210794

CATALOG NUMBER: LE_4B10D010 EC4B10209727 4LBS1WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	5.5
10°-20°	125.0	14.2
20°-30°	163.6	18.6
30°-40°	173.2	19.7
40°-50°	161.5	18.4
50°-60°	122.4	13.9
60°-70°	66.3	7.5
70°-80°	17.8	2.0
80°-90°	0.3	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°	336.9	38.4
0°-40°	510.1	58.1
0°-60°	794.0	90.4
0°-90°	878.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	878.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	524	
5°	516	48
15°	447	125
25°	356	164
35°	277	173
45°	210	162
55°	138	122
65°	66	66
75°	15	18
85°	0	0
90°	0	



TEST NUMBER: P210794

CATALOG NUMBER: LE_4B10D010 EC4B10209727 4LBS1WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	523.9
2.5°	521.9
5°	516.1
7.5°	503.7
10°	487.3
12.5°	468.1
15°	446.9
17.5°	422.9
20°	401.7
22.5°	377.7
25°	355.7
27.5°	333.5
30°	312.4
32.5°	294.1
35°	276.8
37.5°	259.5
40°	243.1
42.5°	226.8
45°	210.5
47.5°	192.2
50°	174.0
52.5°	155.7
55°	137.5
57.5°	118.2
60°	100.0
62.5°	82.7
65°	66.4
67.5°	50.9
70°	37.5
72.5°	26.0
75°	15.4
77.5°	6.7
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)