

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: P211722

Luminaire Tested: **LE_4B20D010 EC4B10208040 4LBS1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211722
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_4B20D010 EC4B10208040 4LBS1WH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2402.7 lumens
Efficiency: N/A
Efficacy: 115.5 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

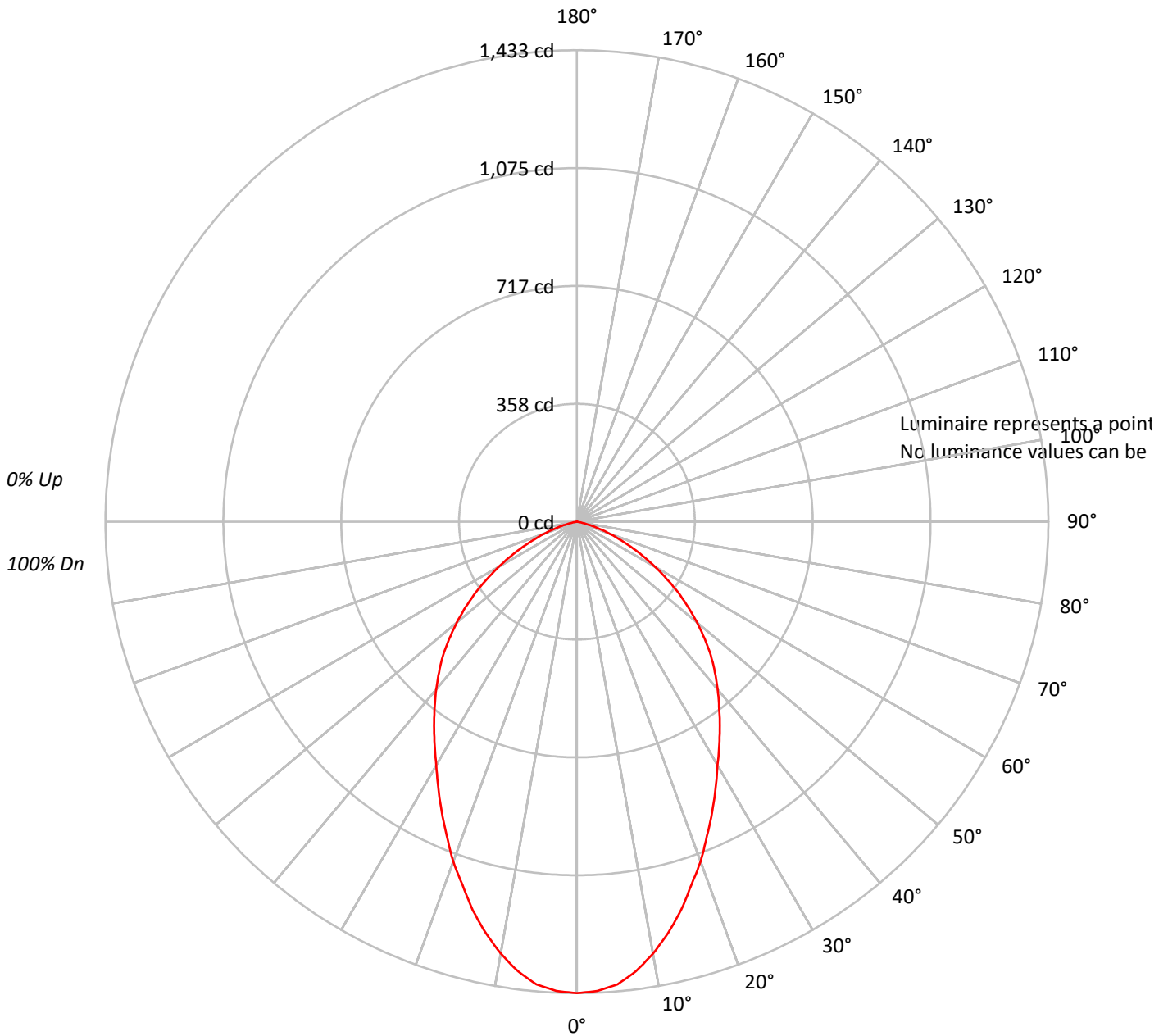
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211722

CATALOG NUMBER: LE_4B20D010 EC4B10208040 4LBS1WH

Luminous Intensity Polar Plot





TEST NUMBER: P211722

CATALOG NUMBER: LE_4B20D010 EC4B10208040 4LBS1WH

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

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211722

CATALOG NUMBER: LE_4B20D010 EC4B10208040 4LBS1WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	5.5
10°-20°	342.1	14.2
20°-30°	447.5	18.6
30°-40°	473.8	19.7
40°-50°	441.9	18.4
50°-60°	334.7	13.9
60°-70°	181.2	7.5
70°-80°	48.6	2.0
80°-90°	0.7	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°	921.7	38.4
0°-40°	1395.5	58.1
0°-60°	2172.1	90.4
0°-90°	2402.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2402.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1433	
5°	1412	132
15°	1223	342
25°	973	447
35°	757	474
45°	576	442
55°	376	335
65°	181	181
75°	42	49
85°	0	1
90°	0	



TEST NUMBER: P211722

CATALOG NUMBER: LE_4B20D010 EC4B10208040 4LBS1WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1433.1
2.5°	1427.7
5°	1412.0
7.5°	1377.8
10°	1333.1
12.5°	1280.5
15°	1222.6
17.5°	1156.9
20°	1099.1
22.5°	1033.3
25°	972.9
27.5°	912.3
30°	854.6
32.5°	804.6
35°	757.2
37.5°	709.9
40°	665.3
42.5°	620.5
45°	575.8
47.5°	525.8
50°	475.9
52.5°	426.0
55°	376.0
57.5°	323.4
60°	273.4
62.5°	226.1
65°	181.4
67.5°	139.3
70°	102.5
72.5°	71.0
75°	42.1
77.5°	18.4
80°	5.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)