

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: P211565

Luminaire Tested: **LE_4B20D010 EC4B10208030 4LBN1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211565
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 EC4B10208030 4LBN1B
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SPECULAR BLACK 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: 911.3 lumens
Efficiency: N/A
Efficacy: 43.8 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.79
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

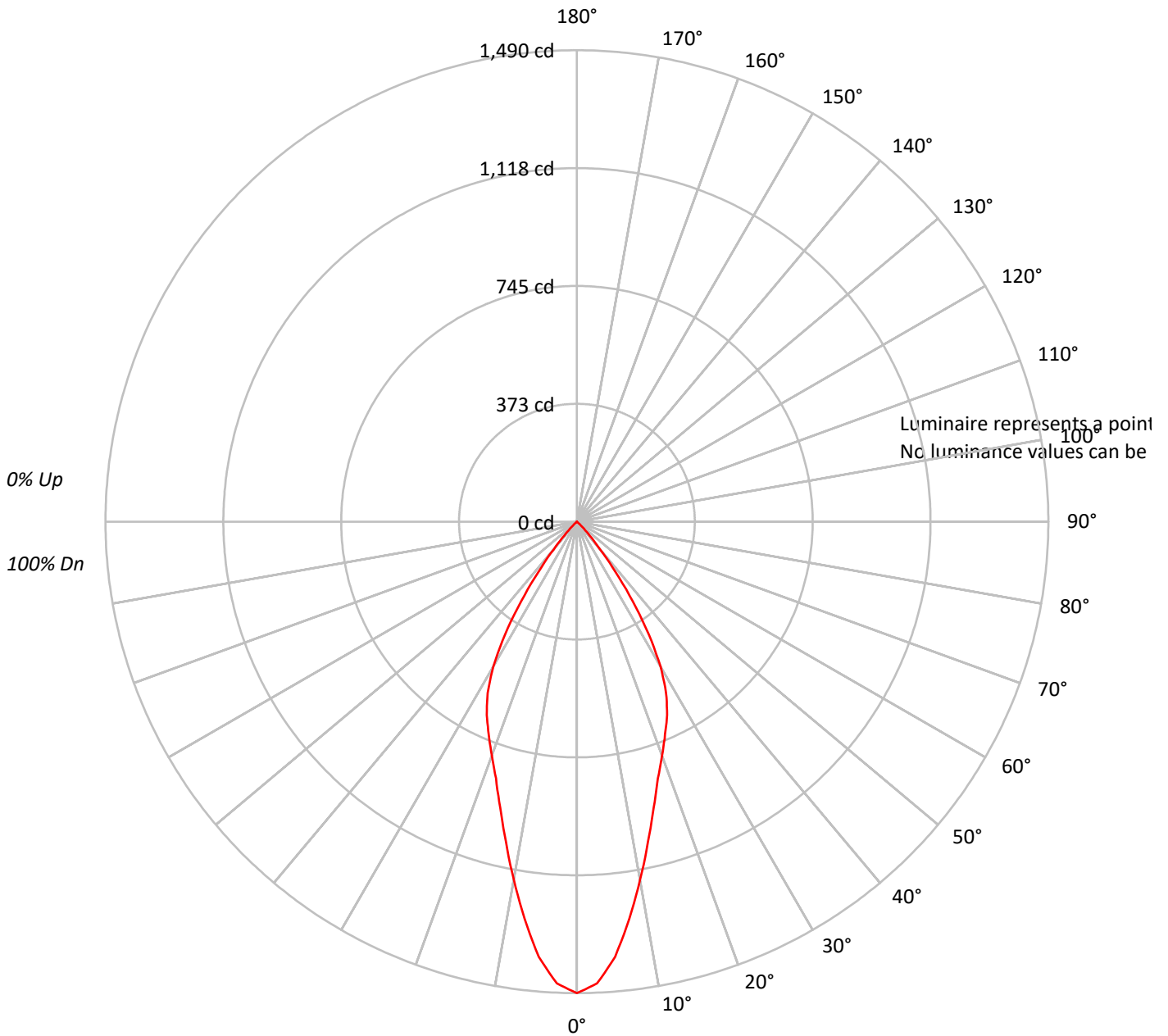
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211565

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBN1B

Luminous Intensity Polar Plot





TEST NUMBER: P211565

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBN1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88			
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83			
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78			
5	94	86	81	77	92	85	80	76	84	79	76	82	78	75	80	77	74	73			
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69			
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65			
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61			
9	78	69	63	60	77	68	63	59	67	63	59	67	62	59	66	62	59	58			
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211565

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBN1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	13.6
10°-20°	263.3	28.9
20°-30°	305.5	33.5
30°-40°	191.3	21.0
40°-50°	26.9	3.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	693.0	76.0
0°-40°	884.4	97.0
0°-60°	911.3	100.0
0°-90°	911.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1490	
5°	1381	124
15°	936	263
25°	674	306
35°	307	191
45°	24	27
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P211565

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBN1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1490.0
2.5°	1460.7
5°	1380.7
7.5°	1266.1
10°	1148.9
12.5°	1036.9
15°	935.7
17.5°	850.3
20°	786.4
22.5°	727.7
25°	674.4
27.5°	610.4
30°	527.8
32.5°	423.9
35°	306.6
37.5°	199.9
40°	114.6
42.5°	58.7
45°	24.0
47.5°	5.3
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)