

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: P211756

Luminaire Tested: **LE_4B20D010 EC4B10209040 4LBW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211756
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 EC4B10209040 4LBW1LI
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SPECULAR CLEAR 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: 2017.9 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

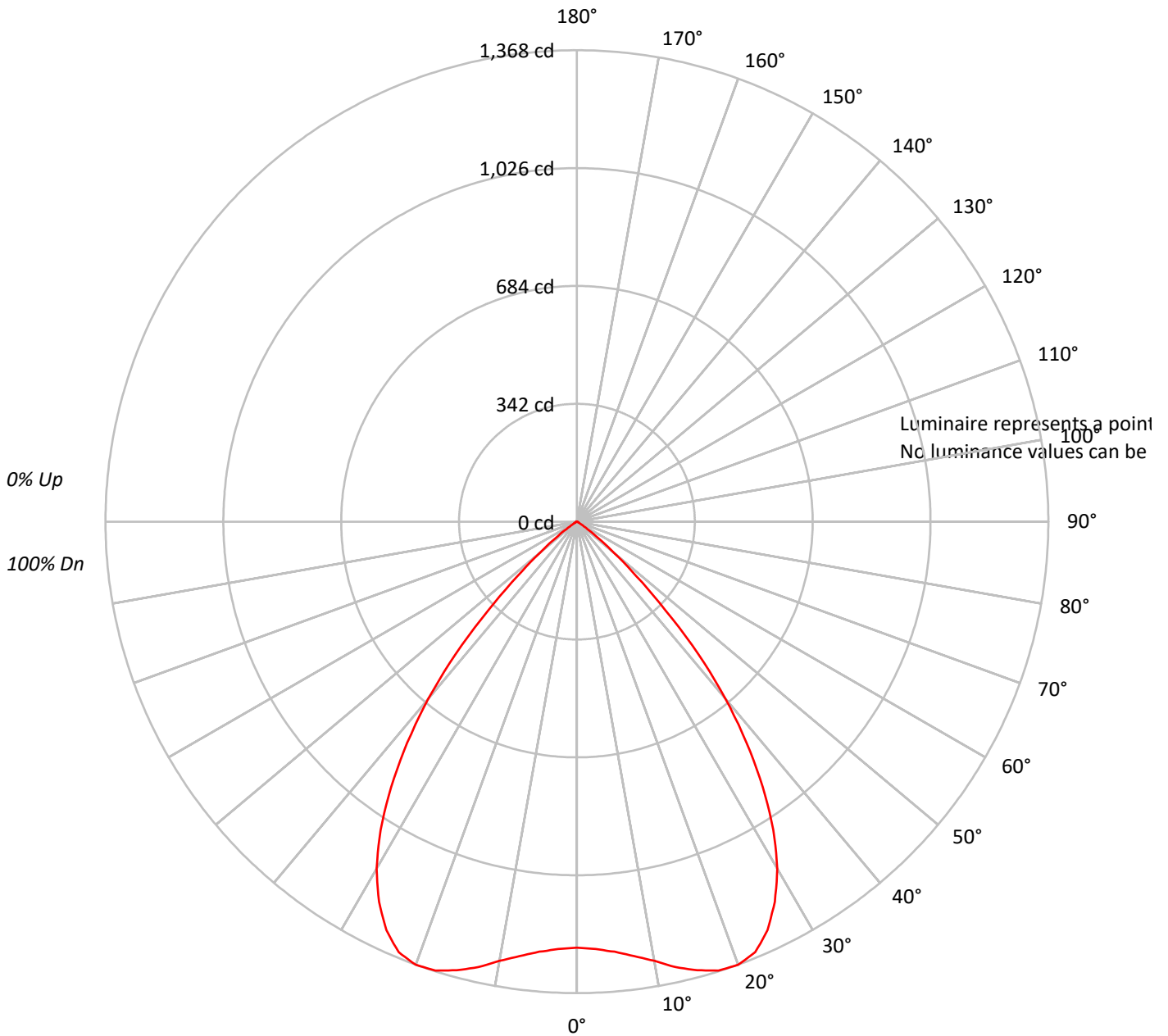
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211756

CATALOG NUMBER: LE_4B20D010 EC4B10209040 4LBW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P211756

CATALOG NUMBER: LE_4B20D010 EC4B10209040 4LBW1LI

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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211756

CATALOG NUMBER: LE_4B20D010 EC4B10209040 4LBW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	6.0
10°-20°	381.6	18.9
20°-30°	595.3	29.5
30°-40°	579.2	28.7
40°-50°	289.3	14.3
50°-60°	44.7	2.2
60°-70°	5.4	0.3
70°-80°	1.5	0.1
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°	1097.8	54.4
0°-40°	1677.0	83.1
0°-60°	2011.0	99.7
0°-90°	2017.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2017.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1236	
5°	1253	121
15°	1347	382
25°	1308	595
35°	941	579
45°	363	289
55°	37	45
65°	5	5
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P211756

CATALOG NUMBER: LE_4B20D010 EC4B10209040 4LBW1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	1236.4
2.5°	1241.1
5°	1252.7
7.5°	1271.1
10°	1294.2
12.5°	1324.3
15°	1347.3
17.5°	1365.9
20°	1368.2
22.5°	1352.0
25°	1308.1
27.5°	1243.4
30°	1162.6
32.5°	1060.8
35°	940.6
37.5°	808.9
40°	670.2
42.5°	522.3
45°	362.8
47.5°	233.4
50°	140.9
52.5°	76.2
55°	37.0
57.5°	16.1
60°	9.3
62.5°	7.0
65°	4.6
67.5°	4.6
70°	2.3
72.5°	2.3
75°	2.3
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)