

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: P211584

Luminaire Tested: **LE_4B20D010 EC4B10208030 4LBW1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211584
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 4LBW1WH
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 2038.4 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

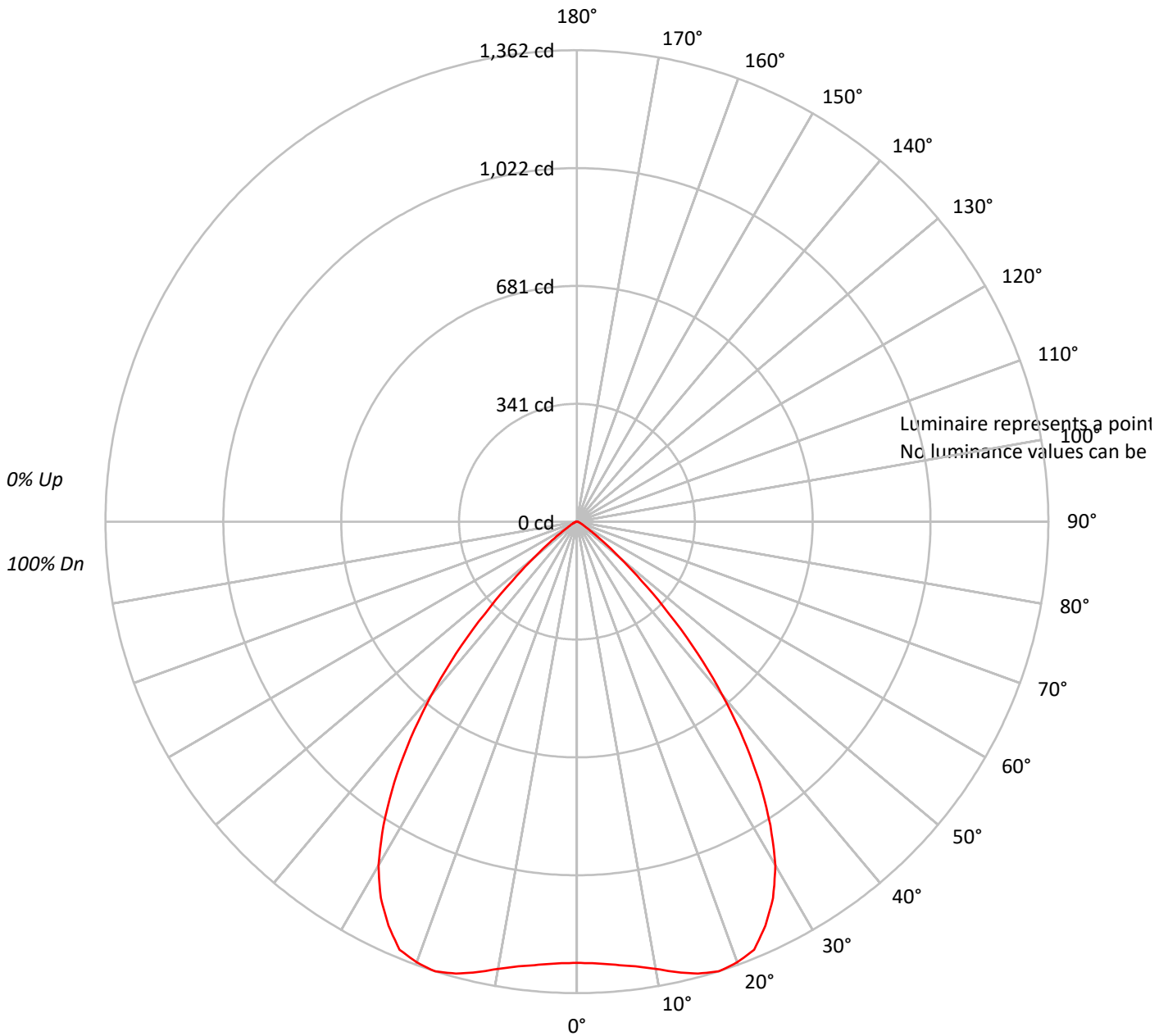
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211584

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBW1WH

Luminous Intensity Polar Plot





TEST NUMBER: P211584

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBW1WH

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	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63	63	63	63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53	53	53	53
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49	49	49	49
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45	45	45	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211584

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBW1WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	6.1
10°-20°	382.0	18.7
20°-30°	587.6	28.8
30°-40°	567.0	27.8
40°-50°	295.6	14.5
50°-60°	62.2	3.1
60°-70°	14.5	0.7
70°-80°	5.6	0.3
80°-90°	0.4	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°	1093.1	53.6
0°-40°	1660.1	81.4
0°-60°	2017.9	99.0
0°-90°	2038.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1274	
5°	1285	123
15°	1352	382
25°	1288	588
35°	920	567
45°	376	296
55°	56	62
65°	13	14
75°	5	6
85°	0	0
90°	0	



TEST NUMBER: P211584

CATALOG NUMBER: LE_4B20D010 EC4B10208030 4LBW1WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1274.5
2.5°	1277.2
5°	1285.2
7.5°	1295.8
10°	1311.8
12.5°	1333.2
15°	1351.7
17.5°	1362.4
20°	1354.4
22.5°	1338.4
25°	1287.8
27.5°	1226.5
30°	1146.5
32.5°	1039.8
35°	919.9
37.5°	789.3
40°	653.2
42.5°	517.2
45°	376.0
47.5°	253.3
50°	162.6
52.5°	98.6
55°	56.0
57.5°	34.7
60°	24.0
62.5°	18.7
65°	13.3
67.5°	10.7
70°	8.0
72.5°	8.0
75°	5.3
77.5°	2.7
80°	2.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)