

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: P211466

Luminaire Tested: **LE_4B20D010 EC4B10209024 4LBW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211466
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 EC4B10209024 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: 1680.6 lumens
Efficiency: N/A
Efficacy: 80.8 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

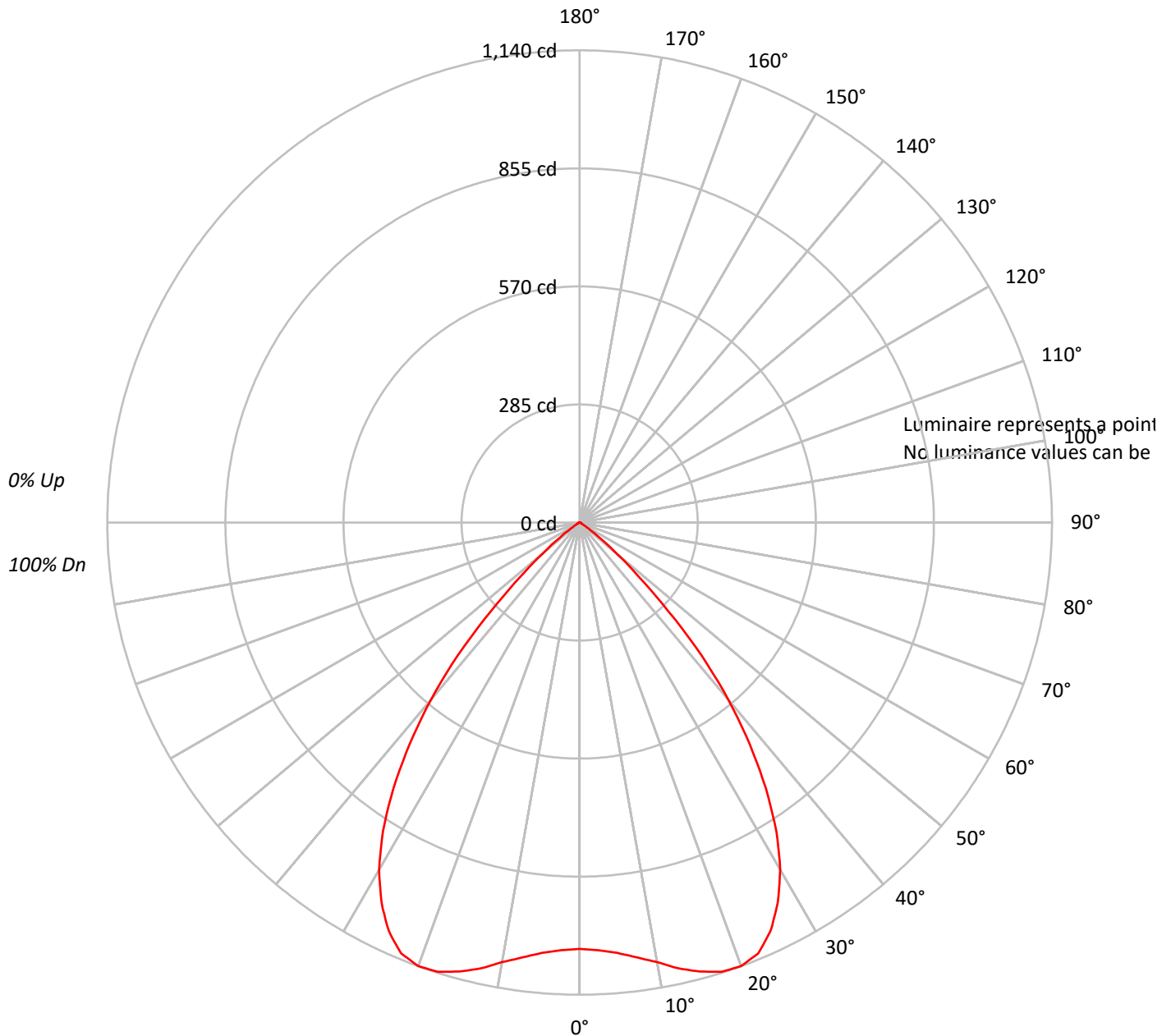
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211466

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P211466

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBW1LI

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59
9	69	59	52	48	68	58	52	47	57	51	47		56	51	47		55
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211466

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	6.0
10°-20°	317.8	18.9
20°-30°	495.8	29.5
30°-40°	482.3	28.7
40°-50°	240.9	14.3
50°-60°	37.3	2.2
60°-70°	4.5	0.3
70°-80°	1.3	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°	914.2	54.4
0°-40°	1396.6	83.1
0°-60°	1674.8	99.7
0°-90°	1680.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1030	
5°	1043	101
15°	1122	318
25°	1089	496
35°	783	482
45°	302	241
55°	31	37
65°	4	4
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P211466

CATALOG NUMBER: LE_4B20D010 EC4B10209024 4LBW1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	1029.7
2.5°	1033.6
5°	1043.2
7.5°	1058.6
10°	1077.9
12.5°	1102.8
15°	1122.1
17.5°	1137.5
20°	1139.5
22.5°	1126.0
25°	1089.4
27.5°	1035.5
30°	968.1
32.5°	883.5
35°	783.3
37.5°	673.6
40°	558.2
42.5°	435.0
45°	302.2
47.5°	194.4
50°	117.4
52.5°	63.6
55°	30.7
57.5°	13.5
60°	7.7
62.5°	5.8
65°	3.8
67.5°	3.8
70°	2.0
72.5°	2.0
75°	2.0
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)