

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: P205813

Luminaire Tested: **LD4B20D010 EU4B10209027 4LBSWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205813
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: LD4B20D010 EU4B10209027 4LBSWH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
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: 1642.1 lumens
Efficiency: N/A
Efficacy: 78.9 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

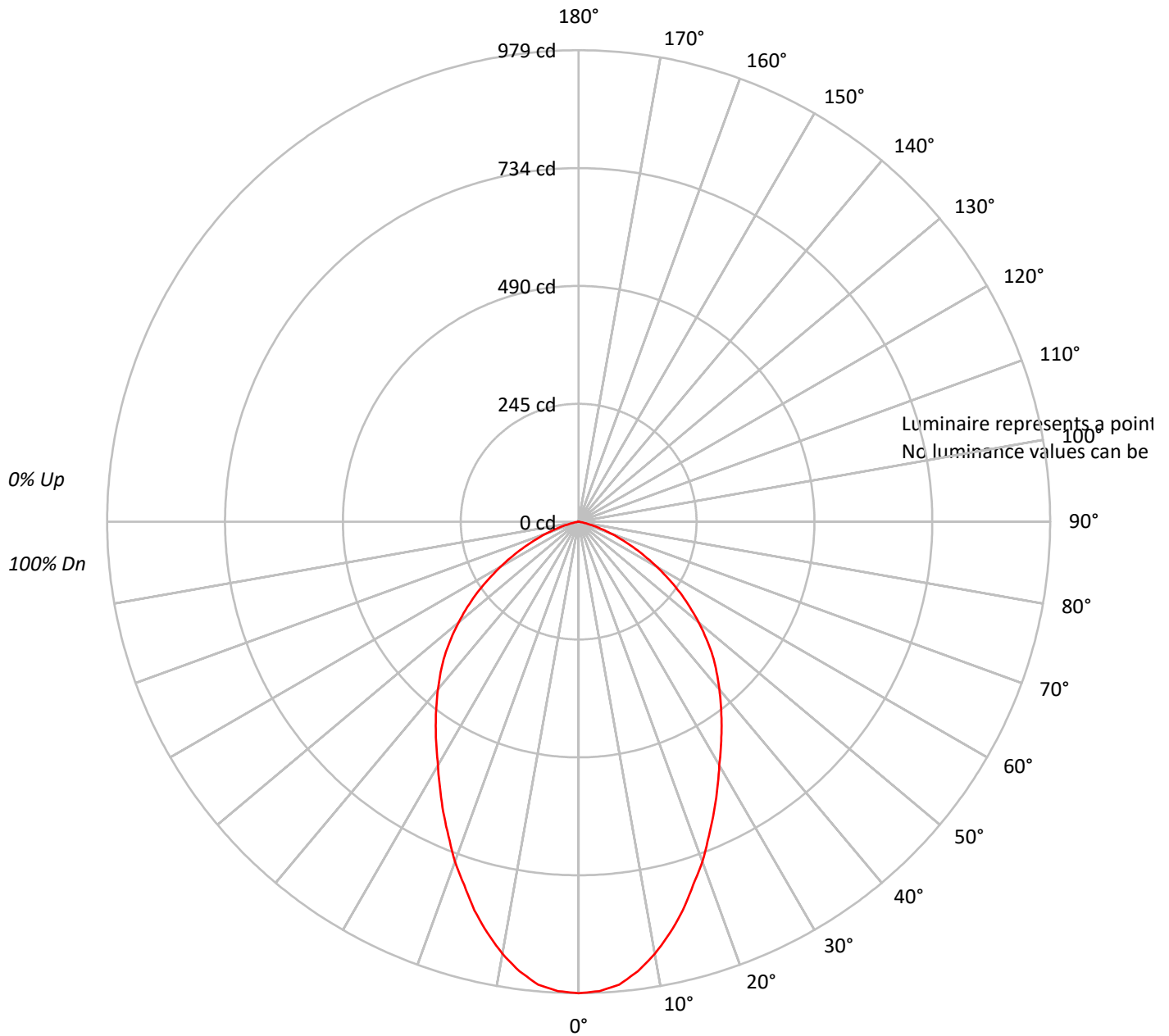
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P205813

CATALOG NUMBER: LD4B20D010 EU4B10209027 4LBSWH1

Luminous Intensity Polar Plot





TEST NUMBER: P205813

CATALOG NUMBER: LD4B20D010 EU4B10209027 4LBSWH1

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

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P205813

CATALOG NUMBER: LD4B20D010 EU4B10209027 4LBSWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	5.5
10°-20°	233.8	14.2
20°-30°	305.8	18.6
30°-40°	323.8	19.7
40°-50°	302.0	18.4
50°-60°	228.8	13.9
60°-70°	123.9	7.5
70°-80°	33.3	2.0
80°-90°	0.5	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°	630.0	38.4
0°-40°	953.8	58.1
0°-60°	1484.5	90.4
0°-90°	1642.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1642.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	979	
5°	965	90
15°	836	234
25°	665	306
35°	518	324
45°	394	302
55°	257	229
65°	124	124
75°	29	33
85°	0	0
90°	0	



TEST NUMBER: P205813

CATALOG NUMBER: LD4B20D010 EU4B10209027 4LBSWH1

CANDELA DISTRIBUTION (FULL):

0°	
0°	979.4
2.5°	975.8
5°	965.0
7.5°	941.6
10°	911.1
12.5°	875.1
15°	835.6
17.5°	790.7
20°	751.2
22.5°	706.2
25°	664.9
27.5°	623.6
30°	584.0
32.5°	549.9
35°	517.5
37.5°	485.2
40°	454.6
42.5°	424.1
45°	393.5
47.5°	359.4
50°	325.3
52.5°	291.1
55°	257.0
57.5°	221.0
60°	186.9
62.5°	154.5
65°	124.0
67.5°	95.2
70°	70.1
72.5°	48.5
75°	28.8
77.5°	12.6
80°	3.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)