

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: P205603

Luminaire Tested: **LD4B20D010 EU4B10208050 4LBSWMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205603
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 EU4B10208050 4LBSWMH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WARM HAZE 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

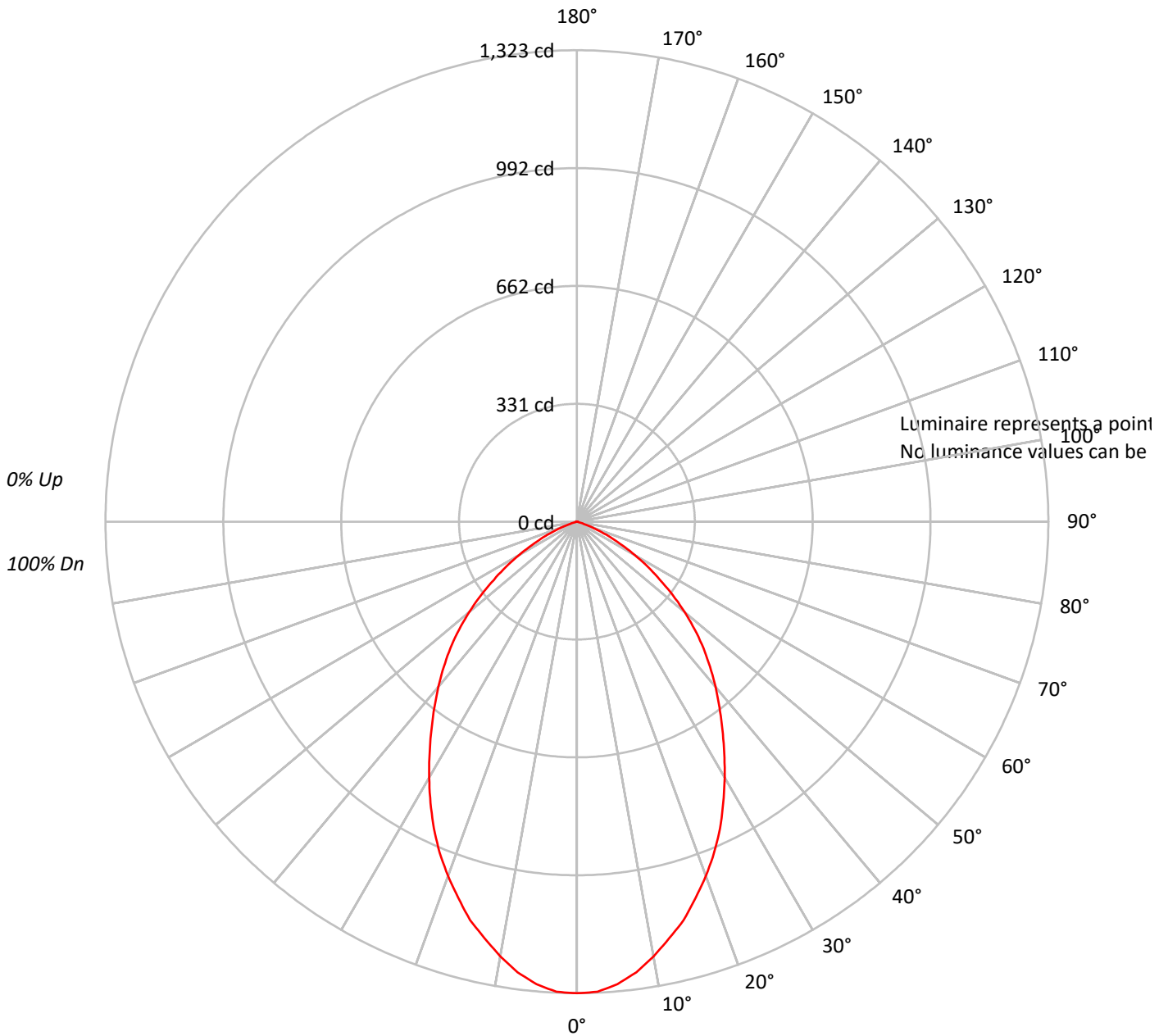
Lumens per Lamp: N/A
Luminaire Lumens: 2087.8 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (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: P205603
CATALOG NUMBER: LD4B20D010 EU4B10208050 4LBSWMH1

Luminous Intensity Polar Plot





TEST NUMBER: P205603

CATALOG NUMBER: LD4B20D010 EU4B10208050 4LBSWMH1

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56			
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41			
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38			
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P205603

CATALOG NUMBER: LD4B20D010 EU4B10208050 4LBSWMH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	5.9
10°-20°	324.1	15.5
20°-30°	435.3	20.8
30°-40°	445.5	21.3
40°-50°	385.6	18.5
50°-60°	256.5	12.3
60°-70°	105.3	5.0
70°-80°	12.5	0.6
80°-90°	0.6	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°	881.7	42.2
0°-40°	1327.2	63.6
0°-60°	1969.3	94.3
0°-90°	2087.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2087.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1323	
5°	1303	122
15°	1158	324
25°	950	435
35°	712	446
45°	502	386
55°	285	257
65°	104	105
75°	6	13
85°	0	1
90°	0	



TEST NUMBER: P205603

CATALOG NUMBER: LD4B20D010 EU4B10208050 4LBSWMH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1323.2
2.5°	1320.5
5°	1302.7
7.5°	1275.3
10°	1238.4
12.5°	1197.3
15°	1157.7
17.5°	1107.0
20°	1057.8
22.5°	1005.8
25°	949.7
27.5°	889.5
30°	829.2
32.5°	769.0
35°	711.6
37.5°	656.8
40°	604.8
42.5°	552.8
45°	502.2
47.5°	448.8
50°	394.1
52.5°	339.4
55°	284.6
57.5°	236.7
60°	187.5
62.5°	142.3
65°	104.0
67.5°	68.4
70°	39.7
72.5°	19.2
75°	5.5
77.5°	2.7
80°	1.4
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)