

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: P207049

Luminaire Tested: **LD4B20D010 EU4B10208030 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207049
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 EU4B10208030 4LBWMW1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH MATTE WHITE 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: 1768.7 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

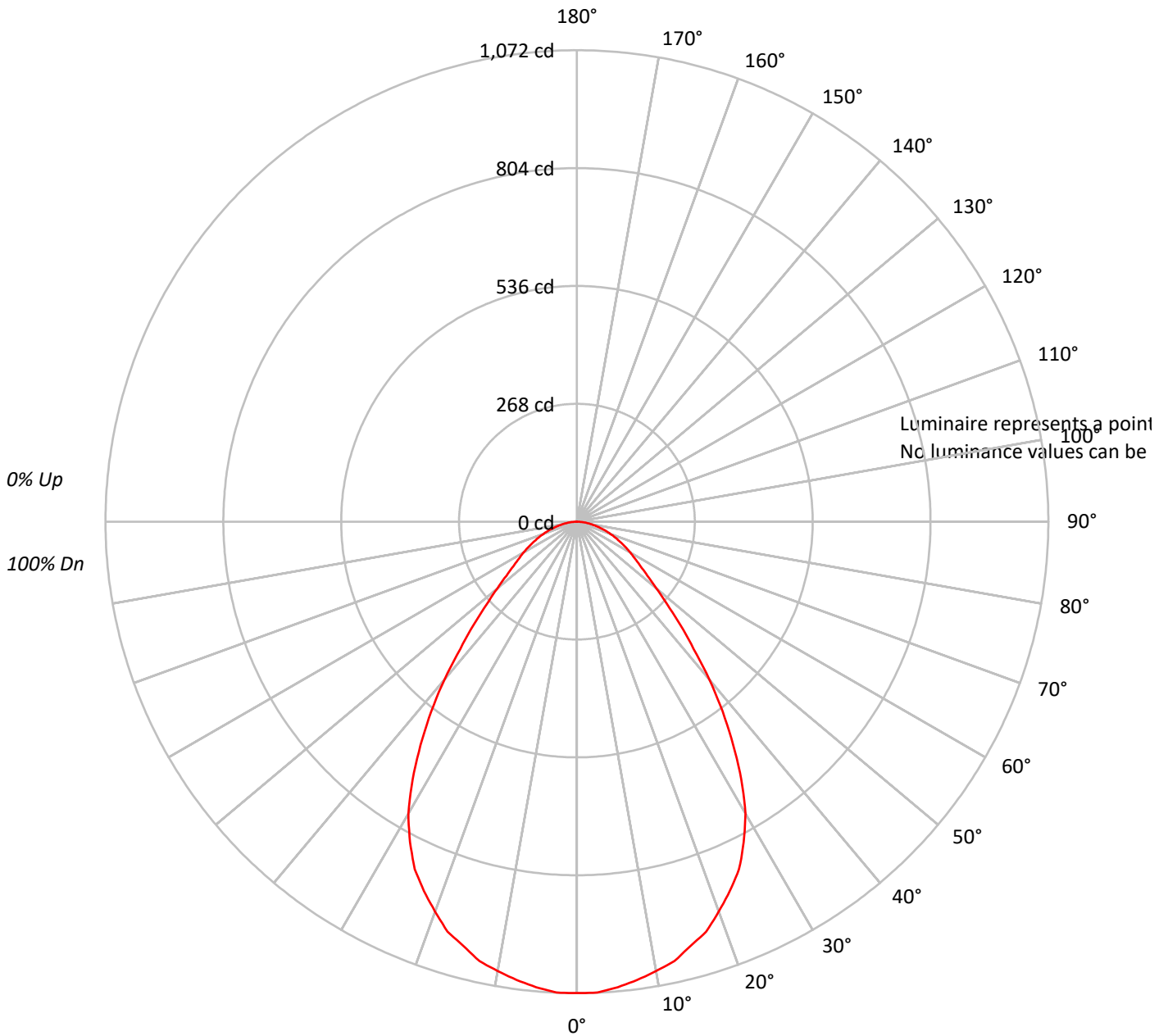
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207049

CATALOG NUMBER: LD4B20D010 EU4B10208030 4LBWMW1

Luminous Intensity Polar Plot





TEST NUMBER: P207049

CATALOG NUMBER: LD4B20D010 EU4B10208030 4LBWMW1

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78		
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61		
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55		
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50		
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45		
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38		
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207049

CATALOG NUMBER: LD4B20D010 EU4B10208030 4LBWMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	5.7
10°-20°	281.4	15.9
20°-30°	397.7	22.5
30°-40°	385.2	21.8
40°-50°	260.0	14.7
50°-60°	161.3	9.1
60°-70°	107.8	6.1
70°-80°	59.0	3.3
80°-90°	15.6	0.9
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°	779.7	44.1
0°-40°	1165.0	65.9
0°-60°	1586.3	89.7
0°-90°	1768.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1072	
5°	1063	101
15°	998	281
25°	872	398
35°	620	385
45°	333	260
55°	177	161
65°	108	108
75°	55	59
85°	14	16
90°	0	



TEST NUMBER: P207049

CATALOG NUMBER: LD4B20D010 EU4B10208030 4LBMMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1071.8
2.5°	1071.8
5°	1062.6
7.5°	1051.1
10°	1037.4
12.5°	1023.6
15°	998.3
17.5°	977.7
20°	943.3
22.5°	908.8
25°	872.1
27.5°	821.6
30°	766.5
32.5°	695.4
35°	619.7
37.5°	543.9
40°	468.2
42.5°	392.5
45°	332.8
47.5°	277.7
50°	236.4
52.5°	202.0
55°	176.7
57.5°	156.1
60°	140.0
62.5°	123.9
65°	107.9
67.5°	94.1
70°	80.3
72.5°	68.9
75°	55.1
77.5°	43.6
80°	32.1
82.5°	23.0
85°	13.8
87.5°	4.6
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)