

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: P207668

Luminaire Tested: **LD4B20D010 EU4B10208035 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207668
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 EU4B10208035 4LBNH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SEMI-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: 1296.9 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

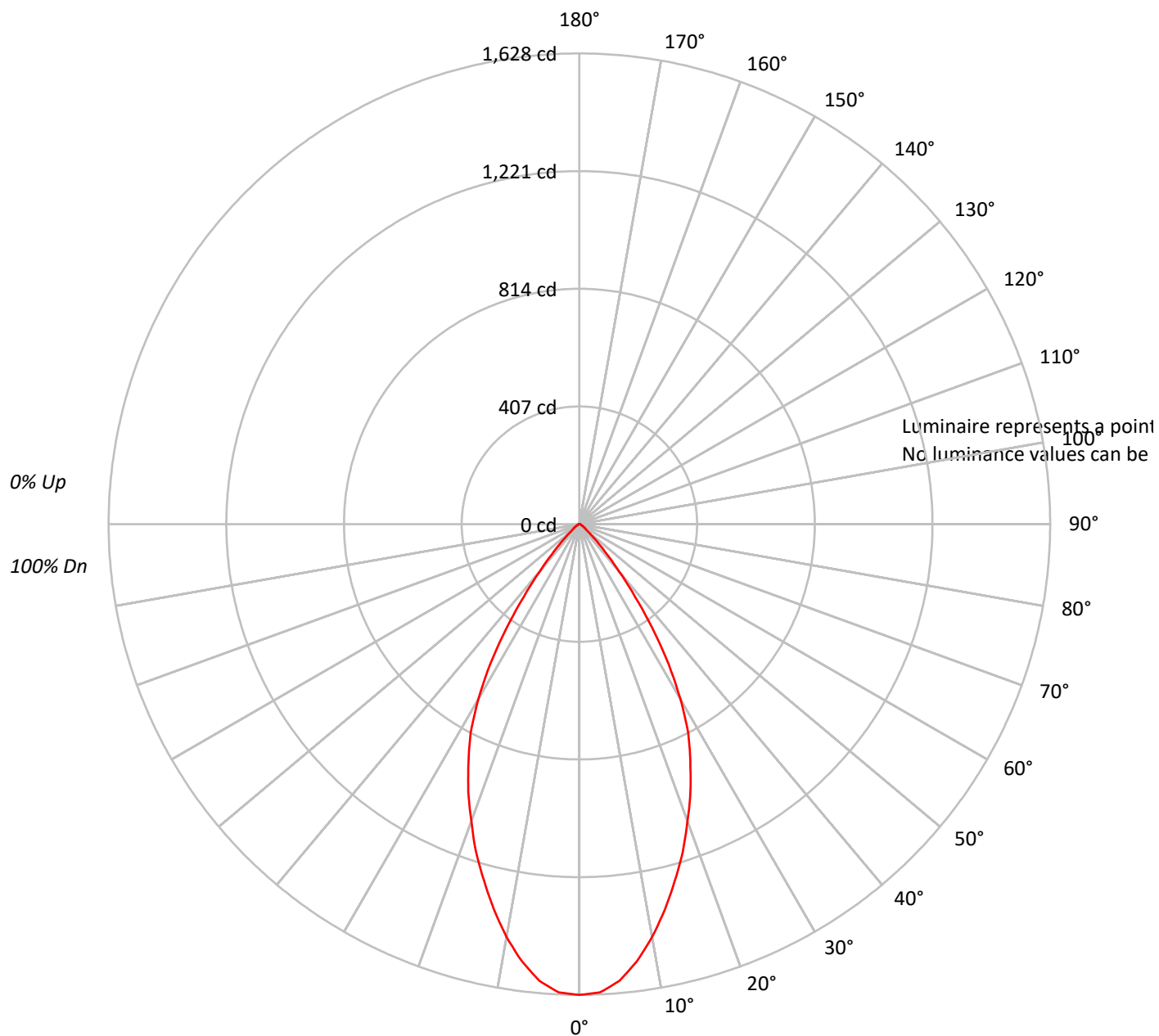
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207668

CATALOG NUMBER: LD4B20D010 EU4B10208035 4LBNH1

Luminous Intensity Polar Plot





TEST NUMBER: P207668

CATALOG NUMBER: LD4B20D010 EU4B10208035 4LBNH1

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	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	89	83	79	86	82	79		84	81	78		83
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78
6	88	79	73	69	86	78	72	68	77	72	68		75	71	67		74
7	83	74	68	64	82	73	68	64	72	67	63		71	66	63		70
8	79	70	64	60	78	69	64	60	68	63	59		67	63	59		66
9	76	66	60	56	74	65	60	56	65	59	56		64	59	56		63
10	72	62	57	53	71	62	56	53	61	56	53		60	56	52		60

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207668

CATALOG NUMBER: LD4B20D010 EU4B10208035 4LBNH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	11.3
10°-20°	356.4	27.5
20°-30°	413.8	31.9
30°-40°	274.0	21.1
40°-50°	76.8	5.9
50°-60°	19.3	1.5
60°-70°	7.2	0.6
70°-80°	2.4	0.2
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°	917.1	70.7
0°-40°	1191.1	91.8
0°-60°	1287.2	99.3
0°-90°	1296.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1296.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1628	
5°	1586	147
15°	1276	356
25°	907	414
35°	439	274
45°	89	77
55°	21	19
65°	7	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P207668

CATALOG NUMBER: LD4B20D010 EU4B10208035 4LBNH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1628.4
2.5°	1621.4
5°	1586.1
7.5°	1525.0
10°	1449.8
12.5°	1365.2
15°	1275.9
17.5°	1189.0
20°	1092.7
22.5°	1003.4
25°	907.0
27.5°	815.4
30°	697.9
32.5°	573.4
35°	439.4
37.5°	314.9
40°	213.8
42.5°	138.6
45°	89.3
47.5°	54.0
50°	35.2
52.5°	25.8
55°	21.1
57.5°	16.4
60°	11.7
62.5°	9.4
65°	7.0
67.5°	4.7
70°	4.7
72.5°	2.3
75°	2.3
77.5°	2.3
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)