

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: P206947

Luminaire Tested: **LD4B20D010 EU4B10208035 4LBWB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206947
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 4LBWB1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH SPECULAR BLACK 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: 1014.5 lumens
Efficiency: N/A
Efficacy: 48.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

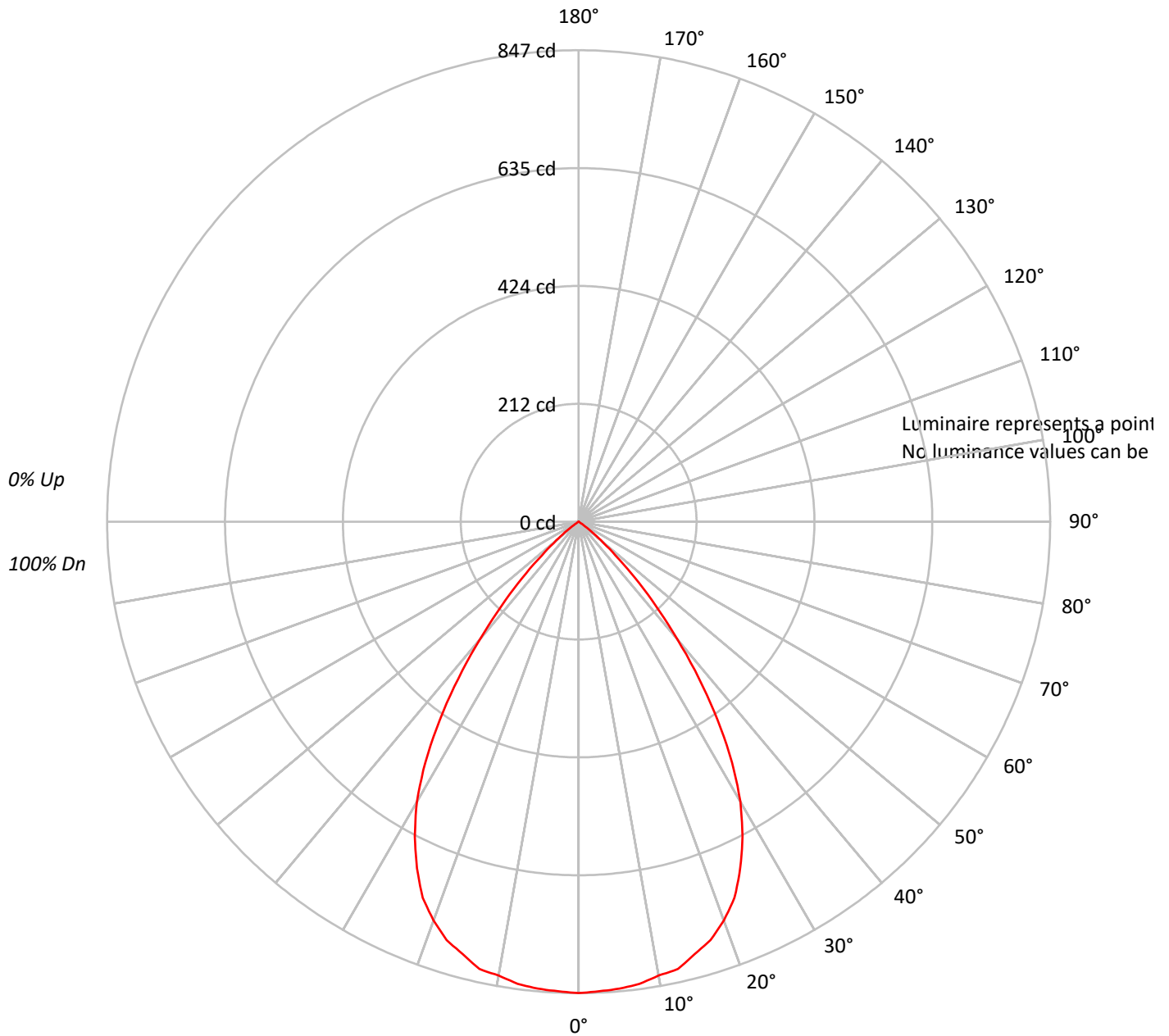
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206947

CATALOG NUMBER: LD4B20D010 EU4B10208035 4LBWB1

Luminous Intensity Polar Plot





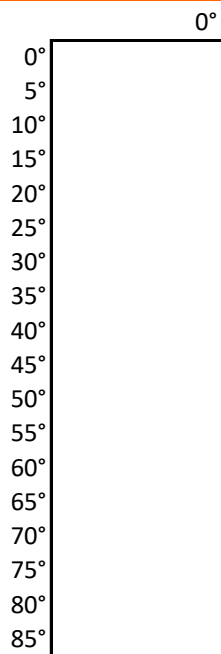
TEST NUMBER: P206947

CATALOG NUMBER: LD4B20D010 EU4B10208035 4LBWB1

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	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86
4	96	88	82	77	94	86	81	77	84	79	76		82	78	75		80
5	90	81	75	70	89	80	74	70	79	73	69		77	72	69		75
6	85	76	69	65	84	75	69	64	73	68	64		72	67	64		70
7	80	71	64	60	79	70	64	59	69	63	59		67	62	59		66
8	76	66	60	55	75	65	59	55	64	59	55		63	58	54		62
9	72	62	55	51	71	61	55	51	60	55	51		59	54	51		58
10	68	58	52	48	67	58	52	48	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P206947

CATALOG NUMBER: LD4B20D010 EU4B10208035 4LBWB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	7.9
10°-20°	226.6	22.3
20°-30°	313.1	30.9
30°-40°	268.1	26.4
40°-50°	114.0	11.2
50°-60°	12.8	1.3
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	619.7	61.1
0°-40°	887.8	87.5
0°-60°	1014.5	100.0
0°-90°	1014.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1014.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	847	
5°	842	80
15°	804	227
25°	687	313
35°	435	268
45°	144	114
55°	7	13
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P206947

CATALOG NUMBER: LD4B20D010 EU4B10208035 4LBWB1

CANDELA DISTRIBUTION (FULL):

	0°
0°	846.9
2.5°	844.5
5°	842.2
7.5°	837.5
10°	828.0
12.5°	823.3
15°	804.5
17.5°	788.1
20°	762.2
22.5°	731.6
25°	686.9
27.5°	637.5
30°	581.0
32.5°	512.8
35°	435.2
37.5°	355.2
40°	275.2
42.5°	204.7
45°	143.5
47.5°	89.4
50°	51.8
52.5°	25.9
55°	7.1
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)