

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: P208380

Luminaire Tested: **LD4B15D010 EU4B10209730 4LBSLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208380
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: LD4B15D010 EU4B10209730 4LBSLI1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1142.8 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

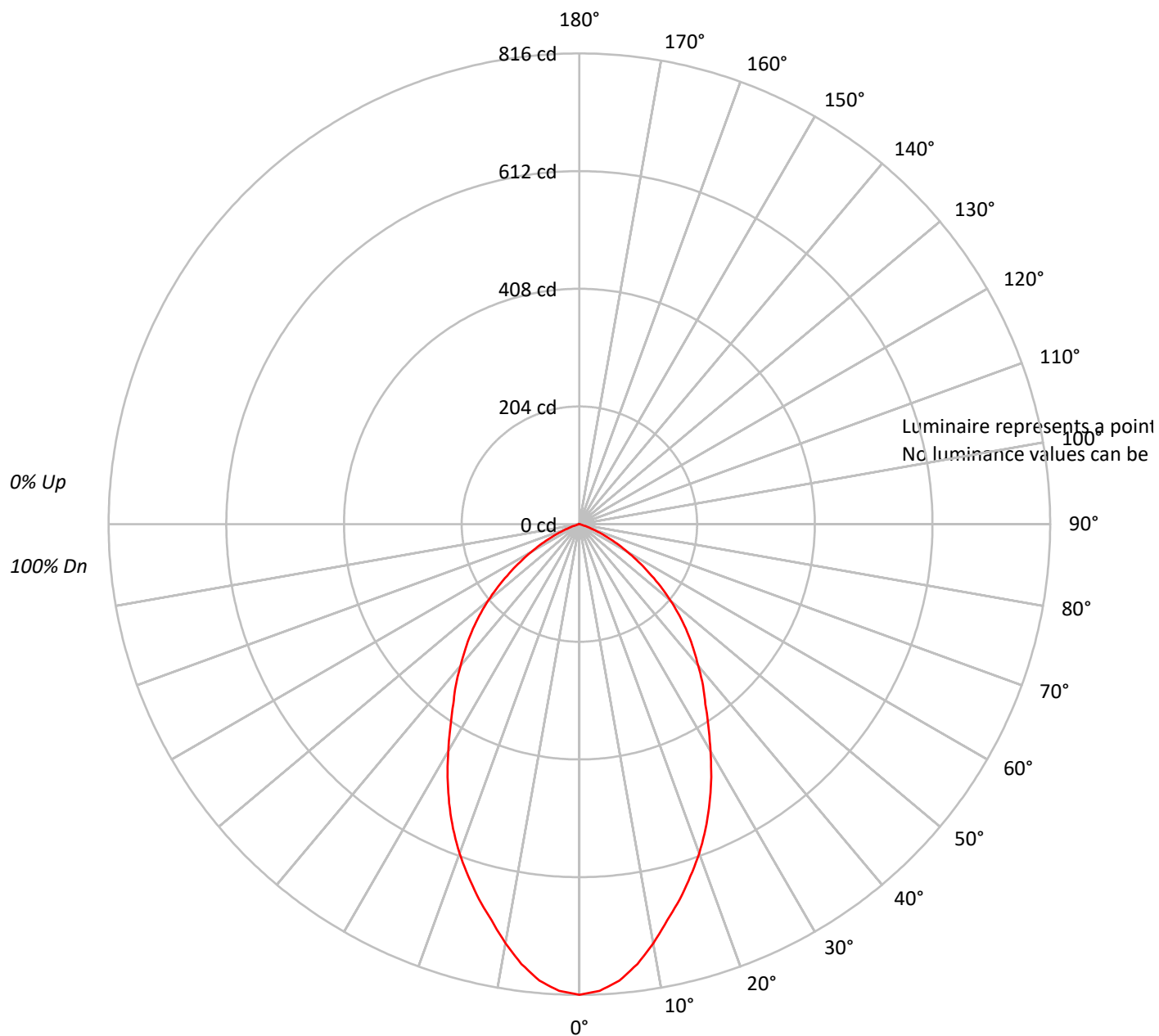
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208380

CATALOG NUMBER: LD4B15D010 EU4B10209730 4LBSLI1

Luminous Intensity Polar Plot





TEST NUMBER: P208380

CATALOG NUMBER: LD4B15D010 EU4B10209730 4LBSLI1

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102		109	106	103	101		102	100	98		98	96	95		95	93	92
2	104	98	93	88		102	96	91	87		93	89	85		90	86	84		87	84	82
3	97	89	82	77		95	87	81	77		84	79	75		82	78	74		79	76	73
4	90	81	73	68		88	79	73	68		77	71	67		75	70	66		73	69	65
5	84	73	66	61		82	72	65	60		70	64	60		69	63	59		67	62	59
6	79	67	60	54		77	66	59	54		65	58	54		63	58	53		62	57	53
7	74	62	54	49		72	61	54	49		60	53	49		58	53	48		57	52	48
8	69	57	50	45		68	57	50	45		55	49	45		54	49	44		53	48	44
9	65	53	46	41		64	53	46	41		52	45	41		51	45	41		50	44	41
10	61	50	43	38		60	49	42	38		48	42	38		47	42	38		46	41	37

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P208380

CATALOG NUMBER: LD4B15D010 EU4B10209730 4LBSLI1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	6.5
10°-20°	188.7	16.5
20°-30°	244.5	21.4
30°-40°	239.6	21.0
40°-50°	203.1	17.8
50°-60°	133.1	11.6
60°-70°	53.5	4.7
70°-80°	6.1	0.5
80°-90°	0.2	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°	507.2	44.4
0°-40°	746.8	65.3
0°-60°	1083.0	94.8
0°-90°	1142.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1142.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	816	
5°	794	74
15°	673	189
25°	534	245
35°	381	240
45°	264	203
55°	148	133
65°	52	54
75°	2	6
85°	0	0
90°	0	



TEST NUMBER: P208380

CATALOG NUMBER: LD4B15D010 EU4B10209730 4LBSLI1

CANDELA DISTRIBUTION (FULL):

	0°
0°	816.0
2.5°	809.7
5°	794.5
7.5°	769.2
10°	737.6
12.5°	703.4
15°	673.0
17.5°	640.1
20°	607.3
22.5°	571.8
25°	533.9
27.5°	494.7
30°	454.2
32.5°	416.2
35°	380.8
37.5°	351.7
40°	320.1
42.5°	292.2
45°	264.4
47.5°	235.3
50°	206.2
52.5°	177.1
55°	148.0
57.5°	121.5
60°	96.1
62.5°	73.4
65°	51.9
67.5°	34.2
70°	20.2
72.5°	8.9
75°	2.5
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)