

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: P208073

Luminaire Tested: **LD4B15D010 EU4B10209040 4LBWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208073
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 EU4B10209040 4LBWLI1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE 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: 1284.9 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

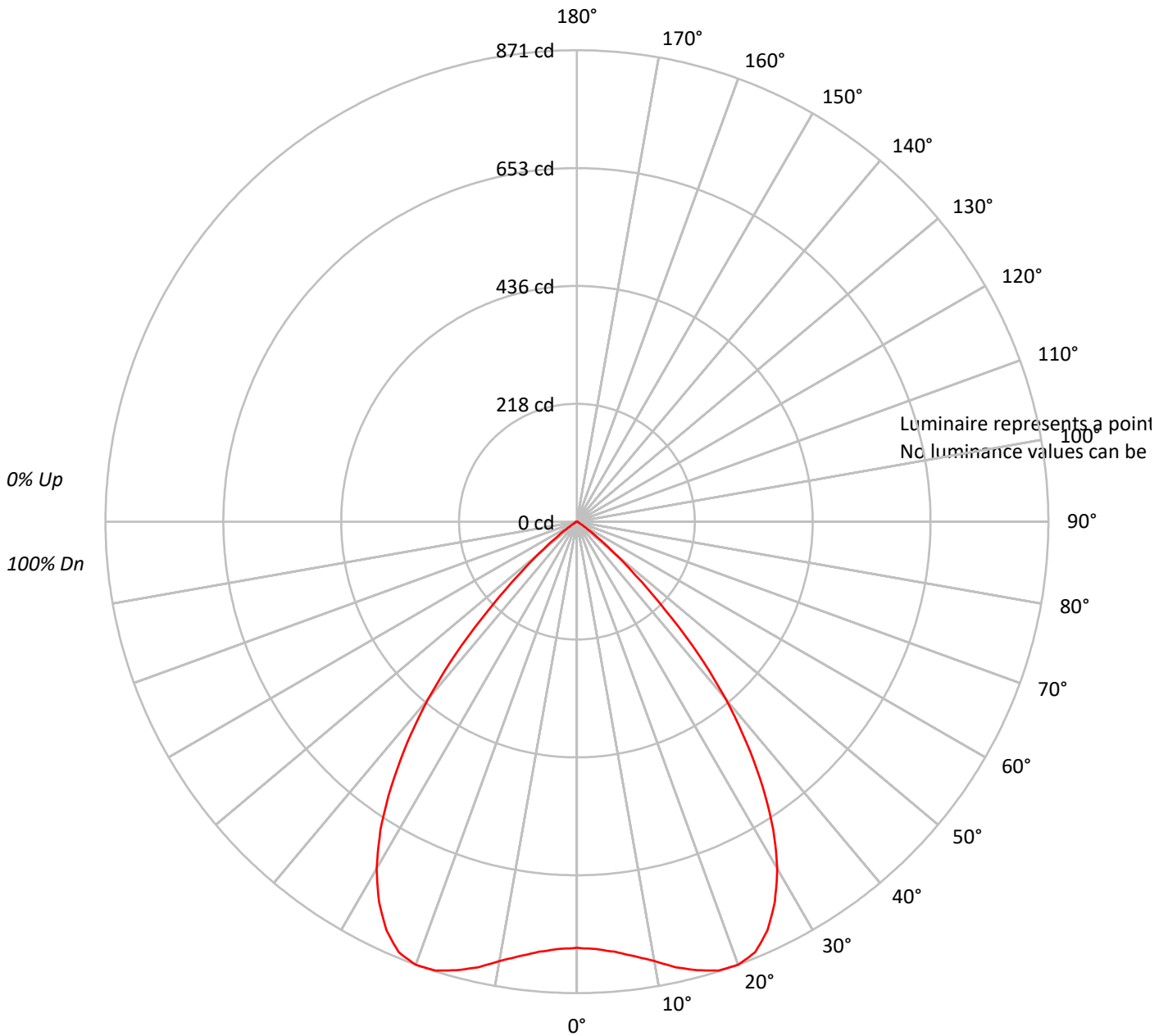
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	100	98	97	96	95	94	92	92	92	92	84																
	1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92	92	92	92	92	92	92	92	92																
	2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	81	78	77	77	77	77	77	77	77	77																
	3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77	77	77	77	77	77	77	77	77	77	77	77																
	4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70	70	70	70	70	70	70	70	70																
	5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64	64	64	64	64	64	64	64	64																
	6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58	58	58	58	58	58	58	58	58																
	7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54	54	54	54	54	54	54	54	54																
	8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49	49	49	49	49	49	49	49	49																
	9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45	45	45	45	45	45	45	45	45																
	10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42	42	42	42	42	42	42	42	42																

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	6.0
10°-20°	243.0	18.9
20°-30°	379.0	29.5
30°-40°	368.8	28.7
40°-50°	184.2	14.3
50°-60°	28.5	2.2
60°-70°	3.4	0.3
70°-80°	1.0	0.1
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°	699.0	54.4
0°-40°	1067.8	83.1
0°-60°	1280.5	99.7
0°-90°	1284.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1284.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	787	
5°	798	77
15°	858	243
25°	833	379
35°	599	369
45°	231	184
55°	24	29
65°	3	3
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	787.3
2.5°	790.2
5°	797.6
7.5°	809.4
10°	824.1
12.5°	843.2
15°	857.9
17.5°	869.7
20°	871.2
22.5°	860.9
25°	832.9
27.5°	791.7
30°	740.2
32.5°	675.5
35°	598.9
37.5°	515.1
40°	426.8
42.5°	332.6
45°	231.0
47.5°	148.6
50°	89.8
52.5°	48.6
55°	23.5
57.5°	10.3
60°	5.9
62.5°	4.4
65°	2.9
67.5°	2.9
70°	1.5
72.5°	1.5
75°	1.5
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)