

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: P205800

Luminaire Tested: **LD4B15D010 EU4B10209027 4LBSWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205800
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 EU4B10209027 4LBSWH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH WHEAT 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: 1213.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

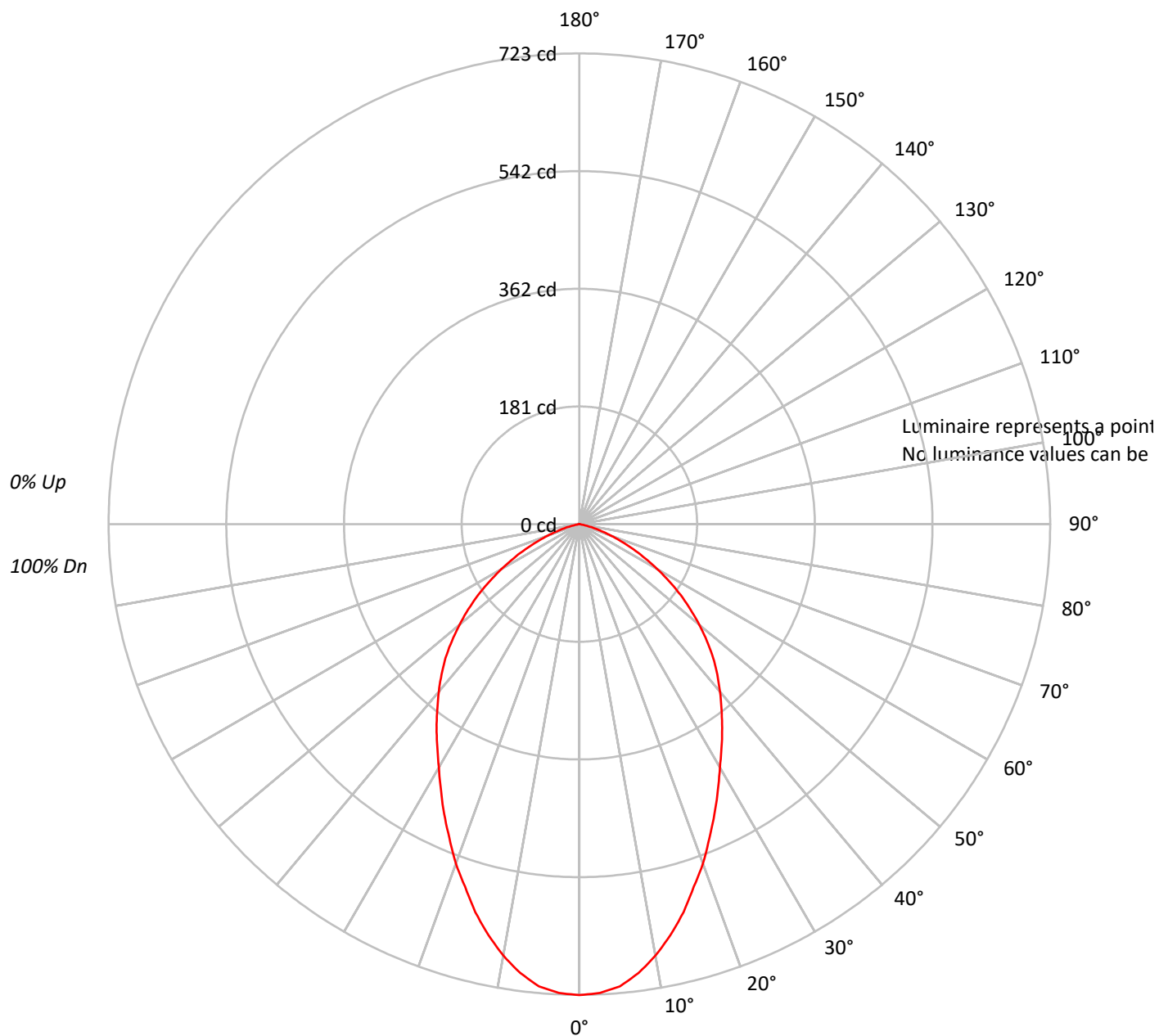
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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	111	107	104	101	108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	73	93	84	78	73		82	76	72		79	74	70		76	73	69
4	88	77	70	64	86	76	69	63		74	68	63		72	66	62		69	65	61
5	81	70	62	56	79	69	62	56		67	60	55		65	59	55		63	58	54
6	76	64	56	50	74	63	55	50		61	54	49		60	54	49		58	53	49
7	71	58	51	45	69	58	50	45		56	49	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	40		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	41	37		47	41	37		46	41	37
10	58	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	5.5
10°-20°	172.7	14.2
20°-30°	225.9	18.6
30°-40°	239.2	19.7
40°-50°	223.1	18.4
50°-60°	169.0	13.9
60°-70°	91.5	7.5
70°-80°	24.5	2.0
80°-90°	0.4	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°	465.3	38.4
0°-40°	704.5	58.1
0°-60°	1096.6	90.4
0°-90°	1213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	723	
5°	713	67
15°	617	173
25°	491	226
35°	382	239
45°	291	223
55°	190	169
65°	92	92
75°	21	25
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	723.4
2.5°	720.8
5°	712.8
7.5°	695.5
10°	673.0
12.5°	646.4
15°	617.2
17.5°	584.0
20°	554.8
22.5°	521.7
25°	491.1
27.5°	460.6
30°	431.4
32.5°	406.2
35°	382.3
37.5°	358.4
40°	335.8
42.5°	313.3
45°	290.7
47.5°	265.5
50°	240.3
52.5°	215.0
55°	189.8
57.5°	163.3
60°	138.0
62.5°	114.2
65°	91.6
67.5°	70.4
70°	51.8
72.5°	35.8
75°	21.2
77.5°	9.3
80°	2.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)