

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: P208472

Luminaire Tested: **LD4B15D010 EU4B10208030 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208472
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 EU4B10208030 4LBNWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW 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: 981.9 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

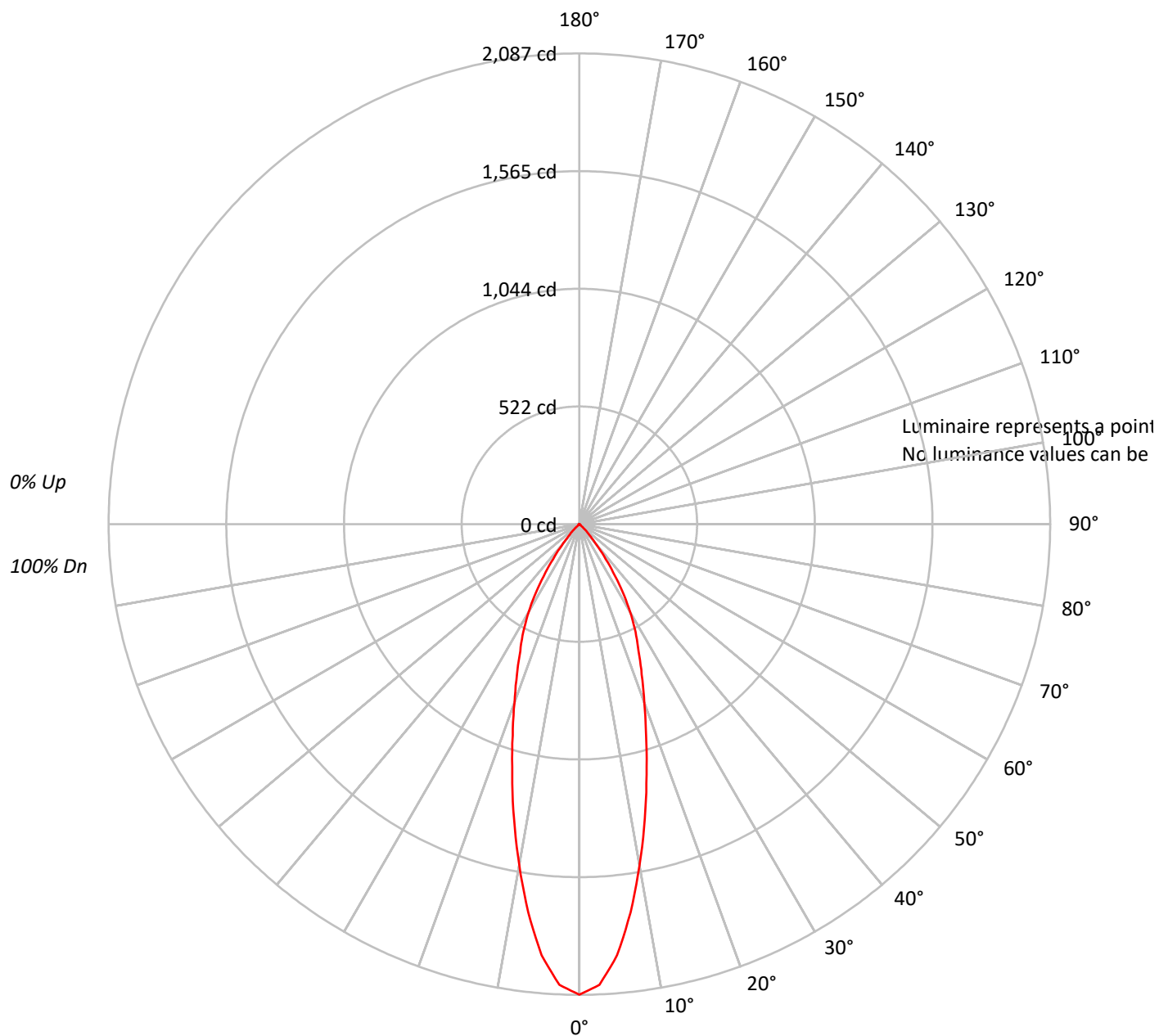
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	114	111	109	107	112	109	107	105		105	104	102			102	100	99			95
2	109	105	101	98	107	103	100	97		100	97	95			97	95	93			89
3	104	98	94	90	102	97	93	90		94	91	88			92	89	87			84
4	100	93	88	84	98	92	87	83		90	86	82			88	84	82			79
5	95	88	82	78	94	87	82	78		85	81	77			83	80	77			75
6	91	83	78	74	90	82	77	74		81	76	73			79	76	73			71
7	87	79	73	70	86	78	73	69		77	72	69			76	72	69			67
8	84	75	70	66	82	74	69	66		73	69	65			72	68	65			64
9	80	71	66	62	79	71	66	62		70	65	62			69	65	62			61
10	77	68	63	59	76	68	63	59		67	62	59			66	62	59			58

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	17.4
10°-20°	320.1	32.6
20°-30°	287.2	29.2
30°-40°	164.8	16.8
40°-50°	32.9	3.3
50°-60°	4.2	0.4
60°-70°	1.9	0.2
70°-80°	0.2	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°	777.9	79.2
0°-40°	942.7	96.0
0°-60°	979.8	99.8
0°-90°	981.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2087	
5°	1919	171
15°	1149	320
25°	620	287
35°	261	165
45°	36	33
55°	5	4
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2086.6
2.5°	2044.3
5°	1918.8
7.5°	1735.7
10°	1535.7
12.5°	1339.1
15°	1149.3
17.5°	983.1
20°	840.8
22.5°	722.1
25°	620.4
27.5°	539.0
30°	449.2
32.5°	357.7
35°	261.0
37.5°	178.0
40°	110.2
42.5°	66.1
45°	35.6
47.5°	15.3
50°	6.8
52.5°	5.1
55°	5.1
57.5°	3.4
60°	3.4
62.5°	1.7
65°	1.7
67.5°	1.7
70°	1.7
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



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— 0°-180°







(END OF REPORT)