

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: P207970

Luminaire Tested: **LD4B15D010 EU4B10209035 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207970
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 EU4B10209035 4LBNMW1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH MATTE WHITE 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: 924.1 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

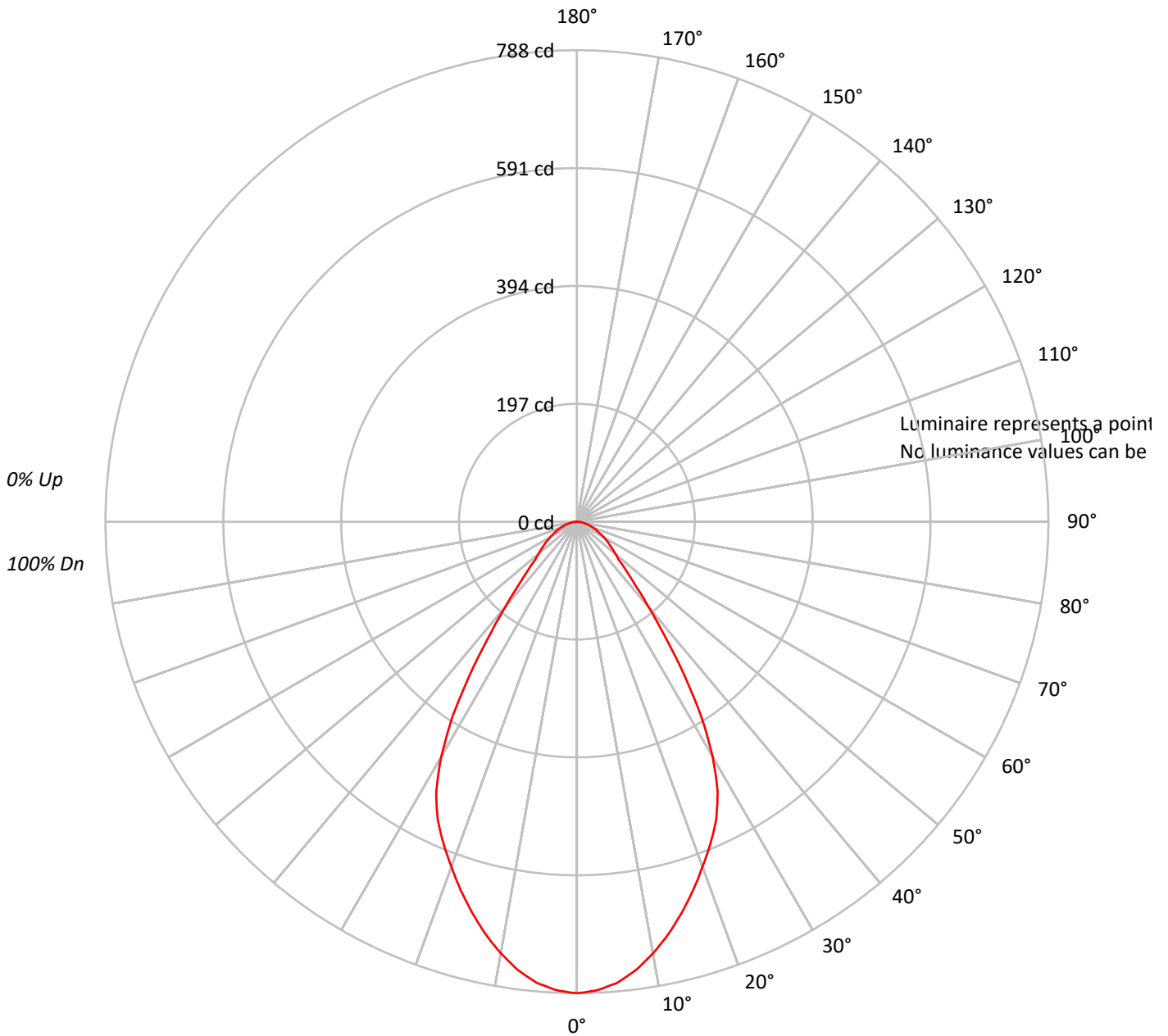
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81				81
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				73
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67				67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61				61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52				52
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48				48
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	7.8
10°-20°	189.7	20.5
20°-30°	249.7	27.0
30°-40°	194.4	21.0
40°-50°	94.4	10.2
50°-60°	59.7	6.5
60°-70°	38.5	4.2
70°-80°	20.1	2.2
80°-90°	5.0	0.5
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°	512.0	55.4
0°-40°	706.4	76.4
0°-60°	860.5	93.1
0°-90°	924.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	788	
5°	774	73
15°	677	190
25°	550	250
35°	311	194
45°	117	94
55°	66	60
65°	38	38
75°	19	20
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	788.3
2.5°	783.9
5°	773.6
7.5°	756.0
10°	732.5
12.5°	706.1
15°	676.7
17.5°	645.9
20°	613.6
22.5°	582.8
25°	550.5
27.5°	509.4
30°	453.6
32.5°	387.5
35°	311.2
37.5°	240.7
40°	186.4
42.5°	145.3
45°	117.4
47.5°	95.4
50°	83.7
52.5°	74.9
55°	66.1
57.5°	58.7
60°	51.4
62.5°	44.0
65°	38.2
67.5°	33.8
70°	27.9
72.5°	23.5
75°	19.1
77.5°	14.7
80°	10.3
82.5°	7.3
85°	4.4
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)