

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: P207964

Luminaire Tested: **LD4B15D010 EU4B10208035 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207964
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 EU4B10208035 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: 1093.5 lumens
Efficiency: N/A
Efficacy: 76.5 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

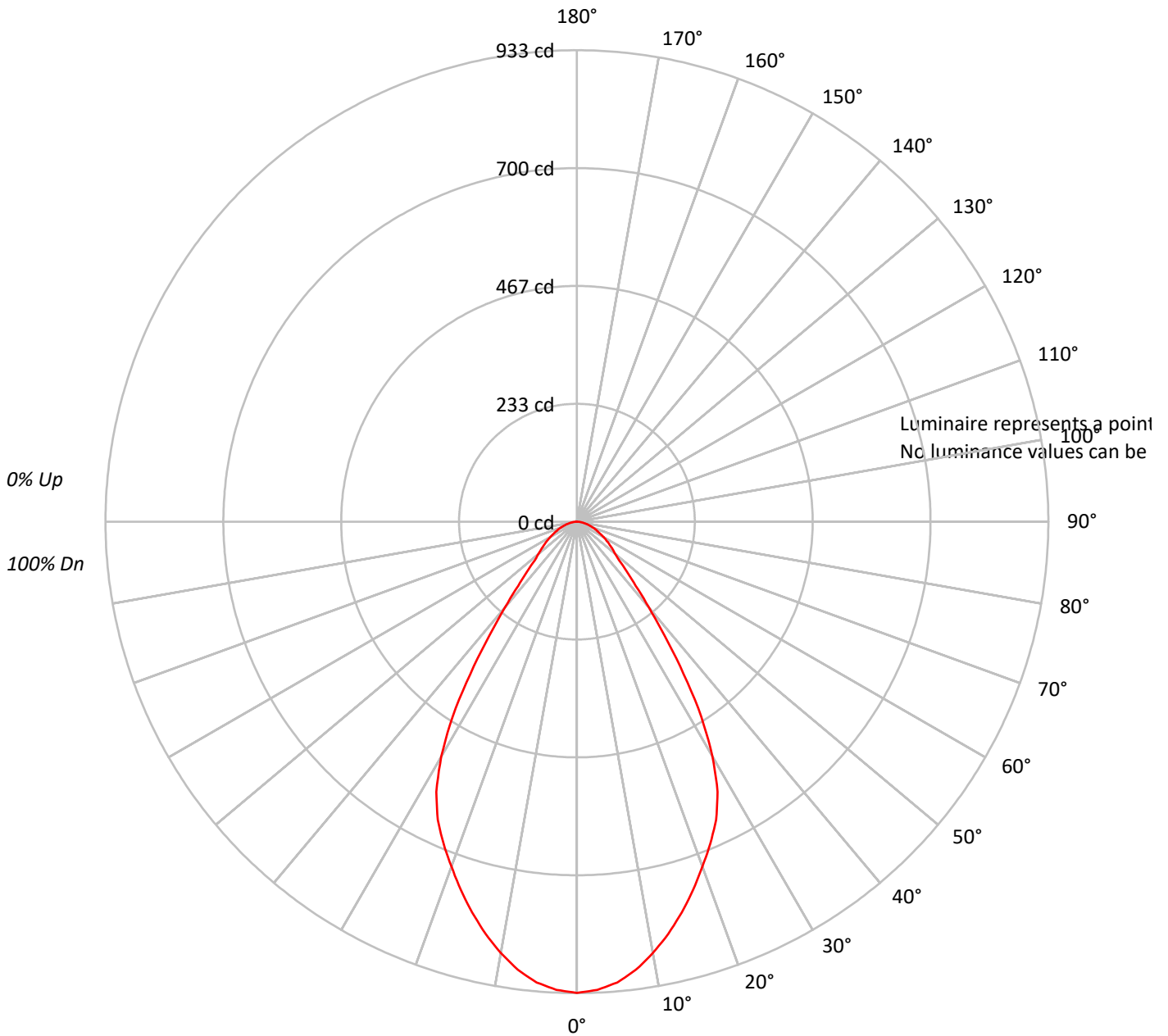
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	85.8	7.8
10°-20°	224.5	20.5
20°-30°	295.5	27.0
30°-40°	230.0	21.0
40°-50°	111.7	10.2
50°-60°	70.6	6.5
60°-70°	45.5	4.2
70°-80°	23.8	2.2
80°-90°	5.9	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°	605.8	55.4
0°-40°	835.9	76.4
0°-60°	1018.2	93.1
0°-90°	1093.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	933	
5°	915	86
15°	801	225
25°	651	296
35°	368	230
45°	139	112
55°	78	71
65°	45	46
75°	23	24
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	932.7
2.5°	927.5
5°	915.4
7.5°	894.5
10°	866.7
12.5°	835.5
15°	800.7
17.5°	764.3
20°	726.1
22.5°	689.6
25°	651.4
27.5°	602.7
30°	536.7
32.5°	458.6
35°	368.2
37.5°	284.9
40°	220.6
42.5°	172.0
45°	139.0
47.5°	112.9
50°	99.0
52.5°	88.6
55°	78.2
57.5°	69.5
60°	60.8
62.5°	52.1
65°	45.2
67.5°	40.0
70°	33.0
72.5°	27.8
75°	22.6
77.5°	17.4
80°	12.2
82.5°	8.7
85°	5.2
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)