

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: P201210

Luminaire Tested: **LD4B15D010 EU4B10208035 4LBCS1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P201210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35144)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B15D010 EU4B10208035 4LBCS1MMS  
Description: PORTFOLIO 4 INCH 80 DEGREE CUTOFF SHALLOW RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH SHALLOW MATTE METALIC SILVER TRIM  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1497.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
CIE Type: Direct

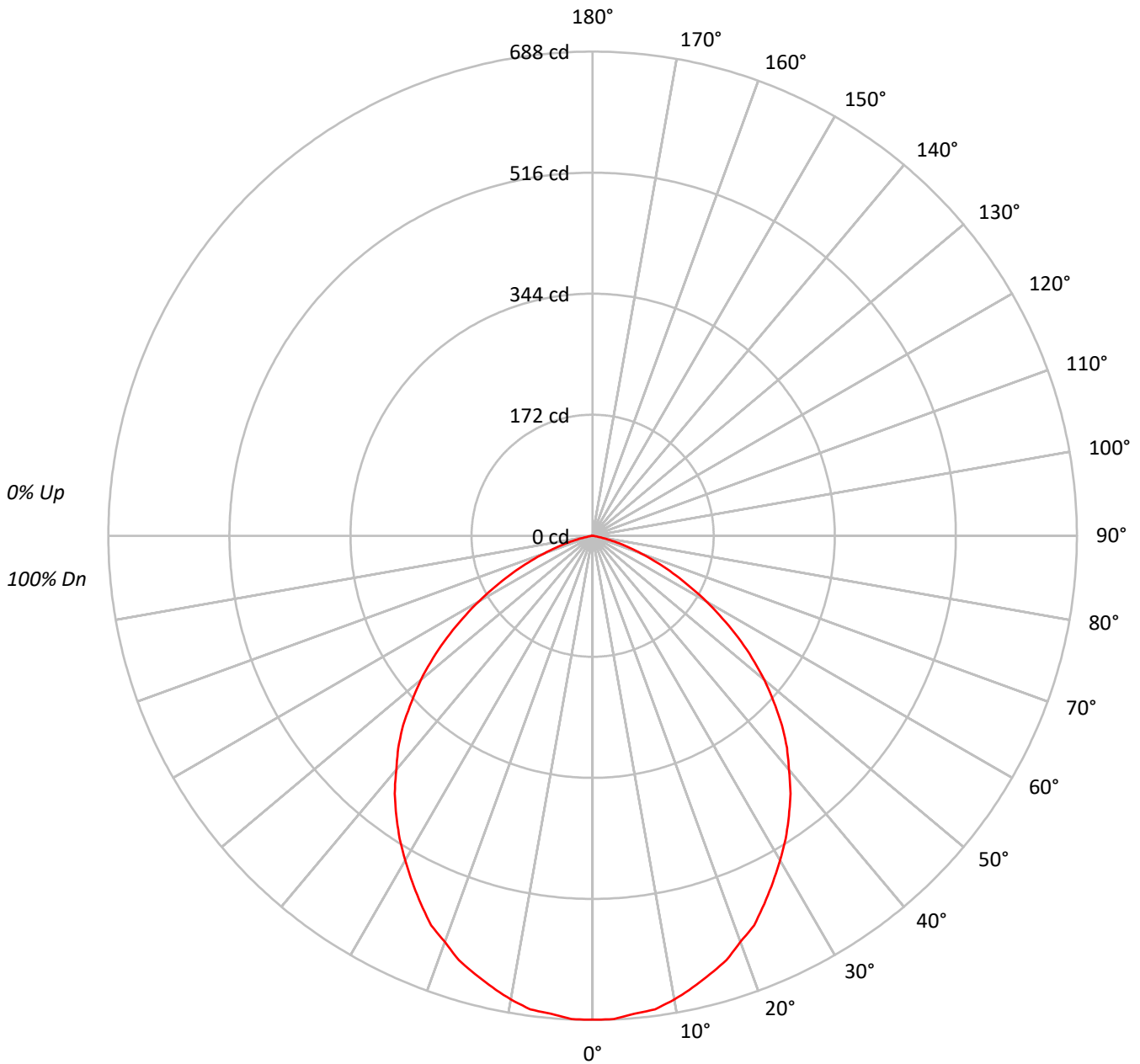
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88				88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76				76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65				65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40				40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36				36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32				32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29				29

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	7445
5°	7410
10°	7357
15°	7230
20°	7074
25°	6895
30°	6658
35°	6426
40°	6132
45°	5827
50°	5367
55°	4771
60°	4048
65°	3226
70°	2330
75°	1339
80°	362
85°	124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.8	4.3
10°-20°	181.8	12.1
20°-30°	265.5	17.7
30°-40°	303.7	20.3
40°-50°	291.9	19.5
50°-60°	225.4	15.1
60°-70°	125.8	8.4
70°-80°	36.6	2.4
80°-90°	1.6	0.1
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°	512.1	34.2
0°-40°	815.8	54.5
0°-60°	1333.0	89.0
0°-90°	1497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	688	
5°	682	65
15°	645	182
25°	577	266
35°	486	304
45°	380	292
55°	253	225
65°	126	126
75°	32	37
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	687.5
2.5°	687.5
5°	681.7
7.5°	678.7
10°	669.1
12.5°	657.4
15°	644.9
17.5°	632.3
20°	613.9
22.5°	599.3
25°	577.1
27.5°	554.8
30°	532.5
32.5°	510.3
35°	486.1
37.5°	461.9
40°	433.8
42.5°	408.6
45°	380.5
47.5°	348.6
50°	318.6
52.5°	285.6
55°	252.7
57.5°	218.8
60°	186.9
62.5°	154.9
65°	125.9
67.5°	98.8
70°	73.6
72.5°	51.3
75°	32.0
77.5°	16.5
80°	5.8
82.5°	1.9
85°	1.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)