

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: P232480

Luminaire Tested: **LD4B15D010 EU4B10209030D2W 4LBM0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P232480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27693)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15D010 EU4B10209030D2W 4LBM0LI
Description: 4" MEDIUM D2W Dimmed to 3000K, with specular clear trim
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1069.1 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.69
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

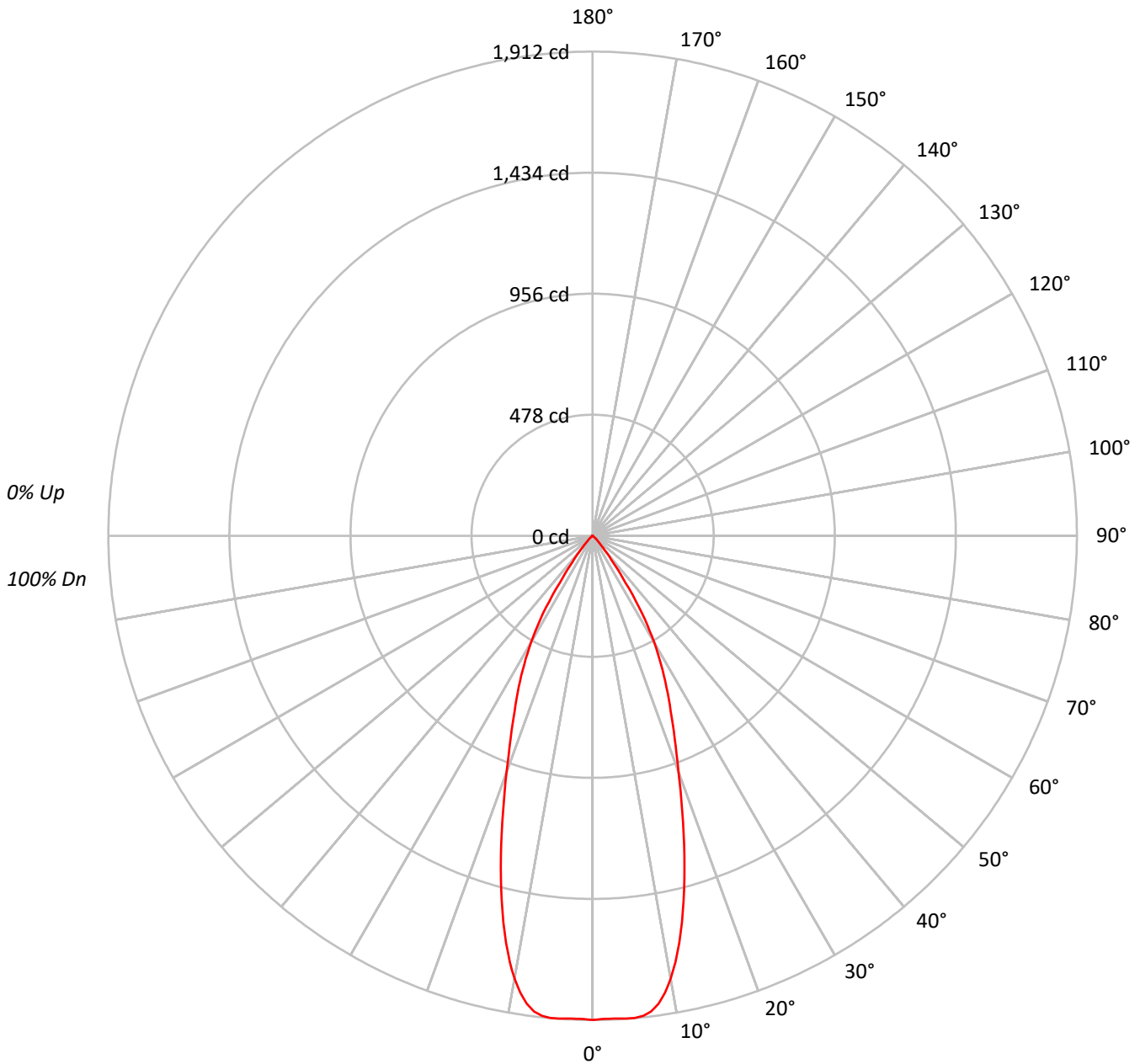
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
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	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																												
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	94	93	91	90	90	88	86	85																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	88	86	85	85	83	81	80	79																			
3	105	99	94	91	103	97	93	90	95	92	89	93	90	87	90	88	86	85	85	83	81	79	78	77	76	75	74																			
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	79	78	77	76	75	74	73	72	71	70																			
5	96	88	83	79	94	88	83	79	86	82	78	84	81	78	83	80	77	75	74	73	72	71	70	69	68	67	66																			
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72	71	70	69	68	67	66	65	64	63																			
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68	67	66	65	64	63	62	61	60	59																			
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65	64	63	62	61	60	59	58	57	56																			
9	81	72	67	64	80	72	67	64	71	67	63	70	66	63	69	66	63	62	61	60	59	58	57	56	55	54	53																			
10	78	69	64	61	77	69	64	61	68	64	60	67	63	60	67	63	60	59	58	57	56	55	54	53	52	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	235853
5°	236754
10°	222408
15°	178651
20°	130227
25°	96753
30°	69192
35°	34001
40°	11964
45°	4623
50°	2188
55°	495
60°	370
65°	233
70°	289
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	16.7
10°-20°	383.0	35.8
20°-30°	326.1	30.5
30°-40°	152.1	14.2
40°-50°	24.5	2.3
50°-60°	3.3	0.3
60°-70°	1.0	0.1
70°-80°	0.3	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°	887.9	83.0
0°-40°	1040.0	97.3
0°-60°	1067.8	99.9
0°-90°	1069.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1912	
5°	1912	179
15°	1399	383
25°	711	326
35°	226	152
45°	26	25
55°	2	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1912.1
1°	1909.1
2°	1908.3
3°	1909.1
4°	1911.4
5°	1912.1
6°	1906.8
7°	1893.2
8°	1866.7
9°	1827.2
10°	1775.7
11°	1714.3
12°	1643.8
13°	1567.3
14°	1484.7
15°	1399.0
16°	1314.2
17°	1227.8
18°	1145.2
19°	1066.3
20°	992.1
21°	925.4
22°	864.7
23°	809.4
24°	757.9
25°	710.9
26°	664.7
27°	620.7
28°	575.2
29°	530.5
30°	485.8
32.5°	366.1
35°	225.8
37.5°	130.4
40°	74.3
42.5°	43.2
45°	26.5
47.5°	17.4
50°	11.4
52.5°	3.8
55°	2.3
57.5°	2.3
60°	1.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
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°







62.5°		1.5
65°		0.8



(END OF REPORT)