

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: P205990

Luminaire Tested: **LD4B10D010 EU4B10208030 4LBSB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205990  
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: LD4B10D010 EU4B10208030 4LBSB1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH SPECULAR BLACK TRIM  
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W  
DL3-11.1W DLE-11.39W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 926.9 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

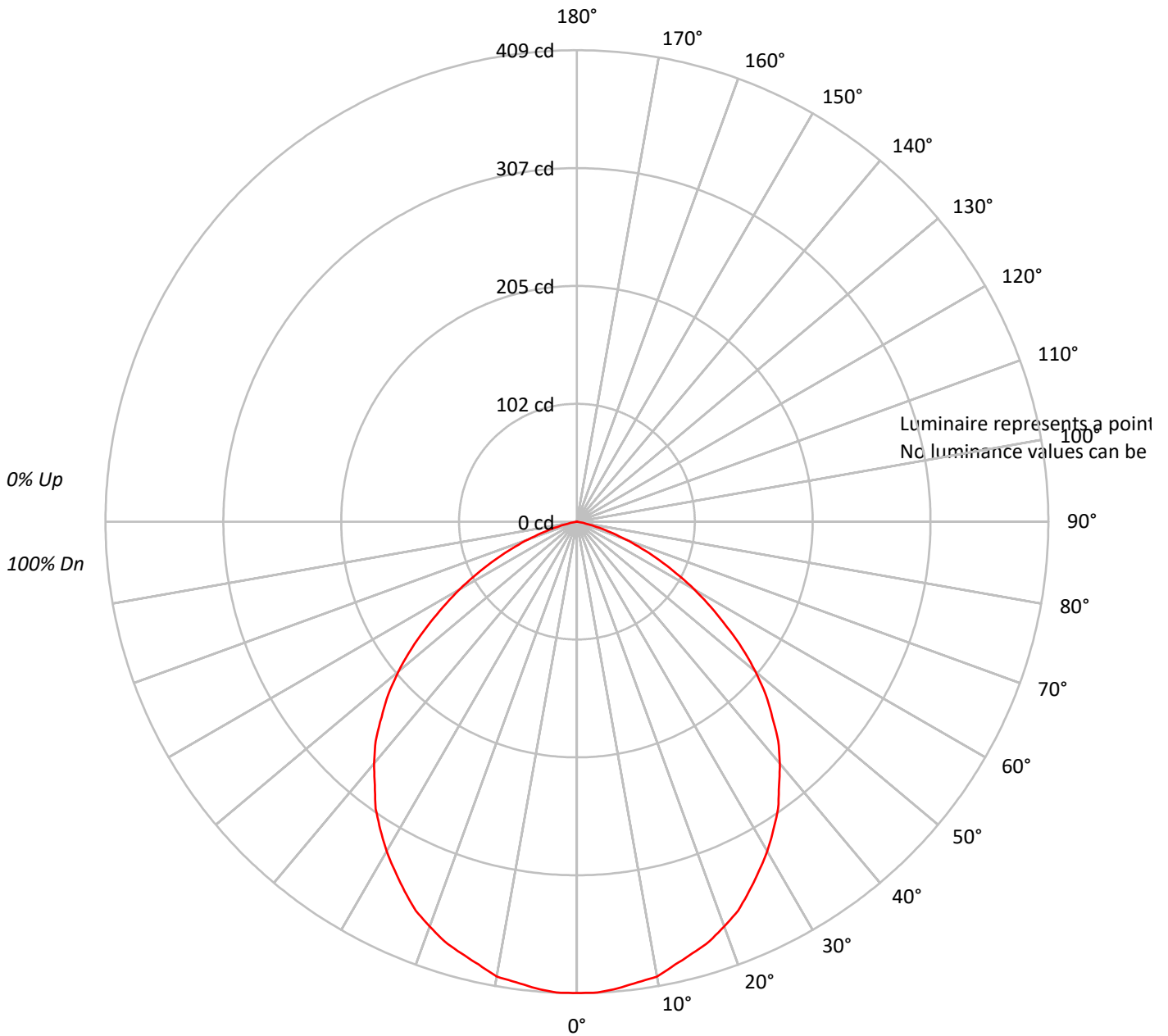
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88	88	88	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76	76	76	76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65	65	65	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57	57	57	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44	44	44	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39	39	39	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32	32	32	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	29	29	29

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	4.2
10°-20°	109.5	11.8
20°-30°	162.9	17.6
30°-40°	189.5	20.5
40°-50°	184.8	19.9
50°-60°	142.1	15.3
60°-70°	78.5	8.5
70°-80°	20.8	2.2
80°-90°	0.2	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°	311.0	33.6
0°-40°	500.5	54.0
0°-60°	827.4	89.3
0°-90°	926.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	409	
5°	406	39
15°	388	109
25°	354	163
35°	304	190
45°	240	185
55°	159	142
65°	79	79
75°	18	21
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	408.9
2.5°	408.9
5°	406.5
7.5°	403.0
10°	400.7
12.5°	393.6
15°	387.7
17.5°	381.9
20°	373.6
22.5°	365.4
25°	353.7
27.5°	341.9
30°	330.2
32.5°	317.2
35°	304.3
37.5°	287.9
40°	273.8
42.5°	258.5
45°	239.7
47.5°	222.1
50°	202.1
52.5°	180.9
55°	158.6
57.5°	137.5
60°	117.5
62.5°	97.5
65°	78.7
67.5°	61.1
70°	44.6
72.5°	30.5
75°	17.6
77.5°	8.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)