

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: P205894

Luminaire Tested: **LD4B10D010 EU4B10209040 4LBSGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205894  
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 EU4B10209040 4LBSGPH1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 839.4 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

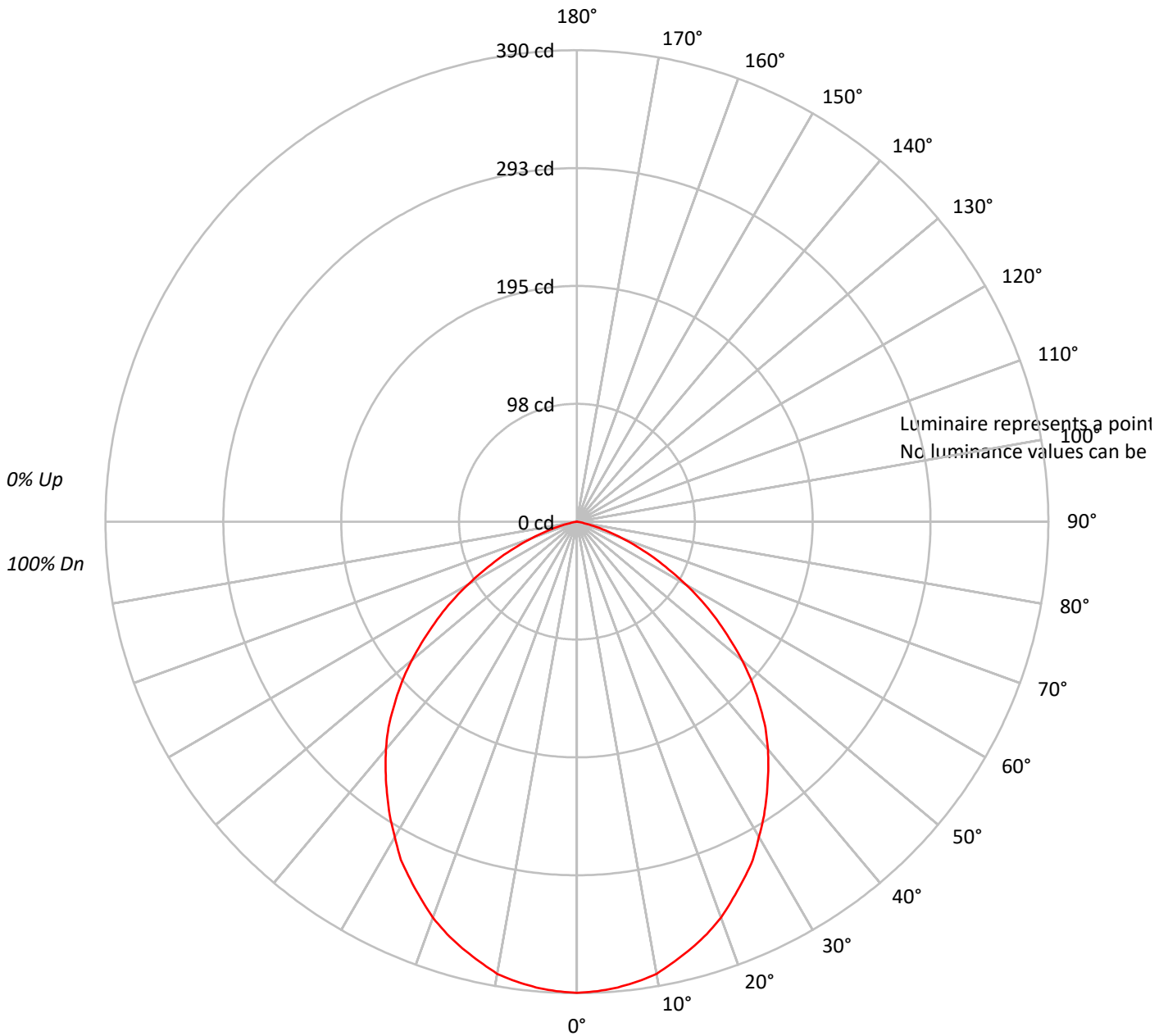
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	102	99	101	98	96	97	95	93	93	91	90	88			88																
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76			76																
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			66																
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57			57																
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50			50																
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45			45																
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40																
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			36																
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32			32																
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30			30																

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.7	4.4
10°-20°	103.0	12.3
20°-30°	150.3	17.9
30°-40°	171.4	20.4
40°-50°	164.4	19.6
50°-60°	125.9	15.0
60°-70°	69.1	8.2
70°-80°	18.4	2.2
80°-90°	0.3	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°	290.0	34.5
0°-40°	461.4	55.0
0°-60°	751.6	89.5
0°-90°	839.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	390	
5°	387	37
15°	366	103
25°	326	150
35°	274	171
45°	214	164
55°	141	126
65°	70	69
75°	16	18
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	389.8
2.5°	388.8
5°	386.8
7.5°	383.8
10°	379.8
12.5°	372.7
15°	365.6
17.5°	357.6
20°	348.5
22.5°	337.4
25°	326.4
27.5°	315.3
30°	301.2
32.5°	288.1
35°	274.0
37.5°	259.9
40°	245.8
42.5°	230.7
45°	213.5
47.5°	196.4
50°	178.3
52.5°	159.2
55°	141.0
57.5°	122.9
60°	103.8
62.5°	85.6
65°	69.5
67.5°	53.4
70°	39.3
72.5°	26.2
75°	16.1
77.5°	7.1
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)