

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: P206517

Luminaire Tested: **LD4B10D010 EU4B10209050 4LBCSMMS1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206517  
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 EU4B10209050 4LBCSMMS1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH CAST MATTE 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: 824.8 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

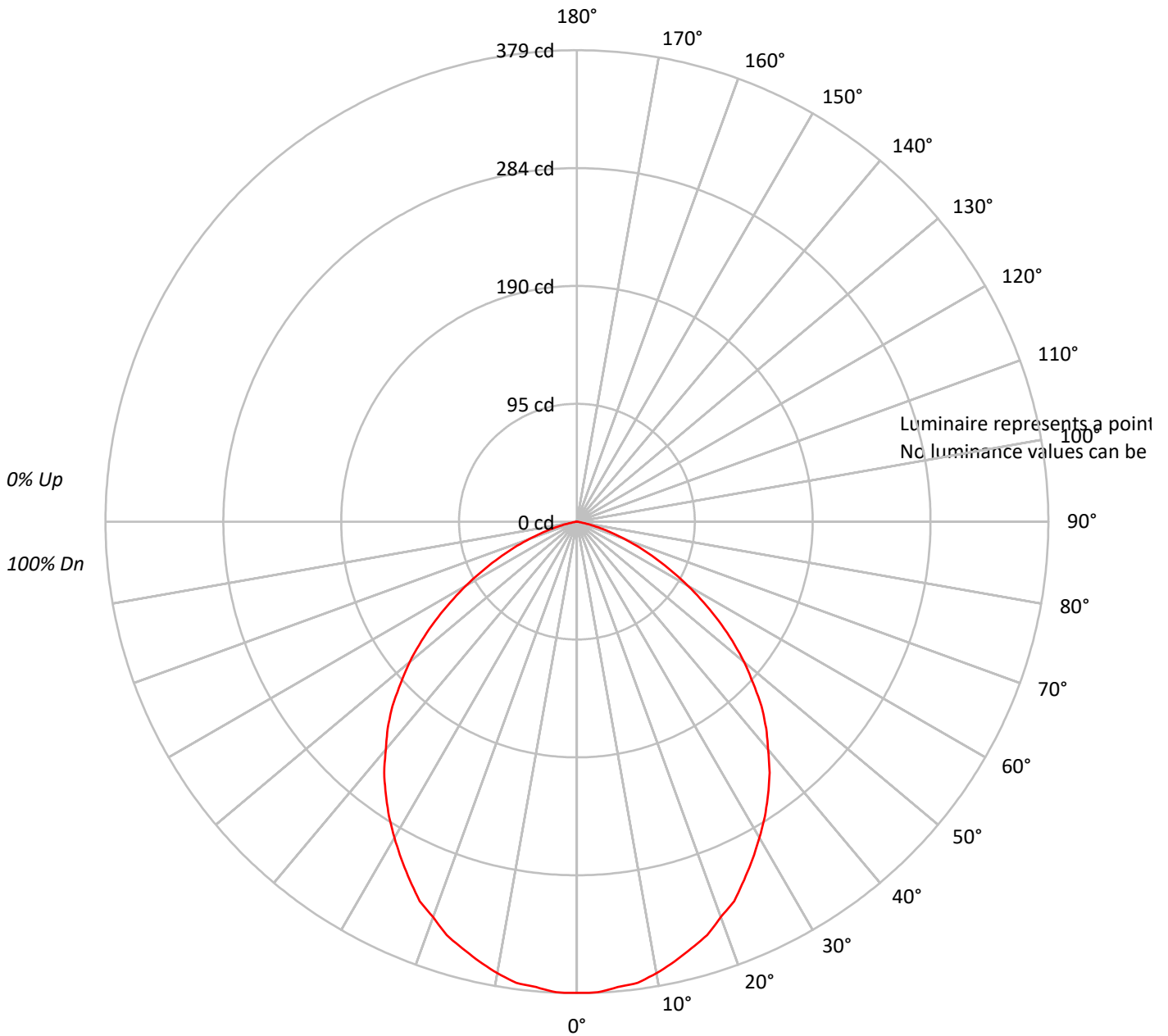
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	34	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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.7	4.3
10°-20°	100.2	12.1
20°-30°	146.3	17.7
30°-40°	167.3	20.3
40°-50°	160.8	19.5
50°-60°	124.2	15.1
60°-70°	69.3	8.4
70°-80°	20.2	2.4
80°-90°	0.9	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°	282.1	34.2
0°-40°	449.5	54.5
0°-60°	734.4	89.0
0°-90°	824.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	824.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	379	
5°	376	36
15°	355	100
25°	318	146
35°	268	167
45°	210	161
55°	139	124
65°	69	69
75°	18	20
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	378.8
2.5°	378.8
5°	375.6
7.5°	374.0
10°	368.6
12.5°	362.2
15°	355.3
17.5°	348.4
20°	338.2
22.5°	330.2
25°	317.9
27.5°	305.7
30°	293.4
32.5°	281.1
35°	267.8
37.5°	254.5
40°	239.0
42.5°	225.1
45°	209.7
47.5°	192.0
50°	175.5
52.5°	157.4
55°	139.2
57.5°	120.6
60°	103.0
62.5°	85.4
65°	69.4
67.5°	54.4
70°	40.5
72.5°	28.3
75°	17.6
77.5°	9.1
80°	3.2
82.5°	1.1
85°	0.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)