

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: P205955

Luminaire Tested: **LD4B50D010TE EU4B30509024 4LBSGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205955  
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: LD4B50D010TE EU4B30509024 4LBSGPH1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3385.3 lumens  
Efficiency: N/A  
Efficacy: 57.6 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

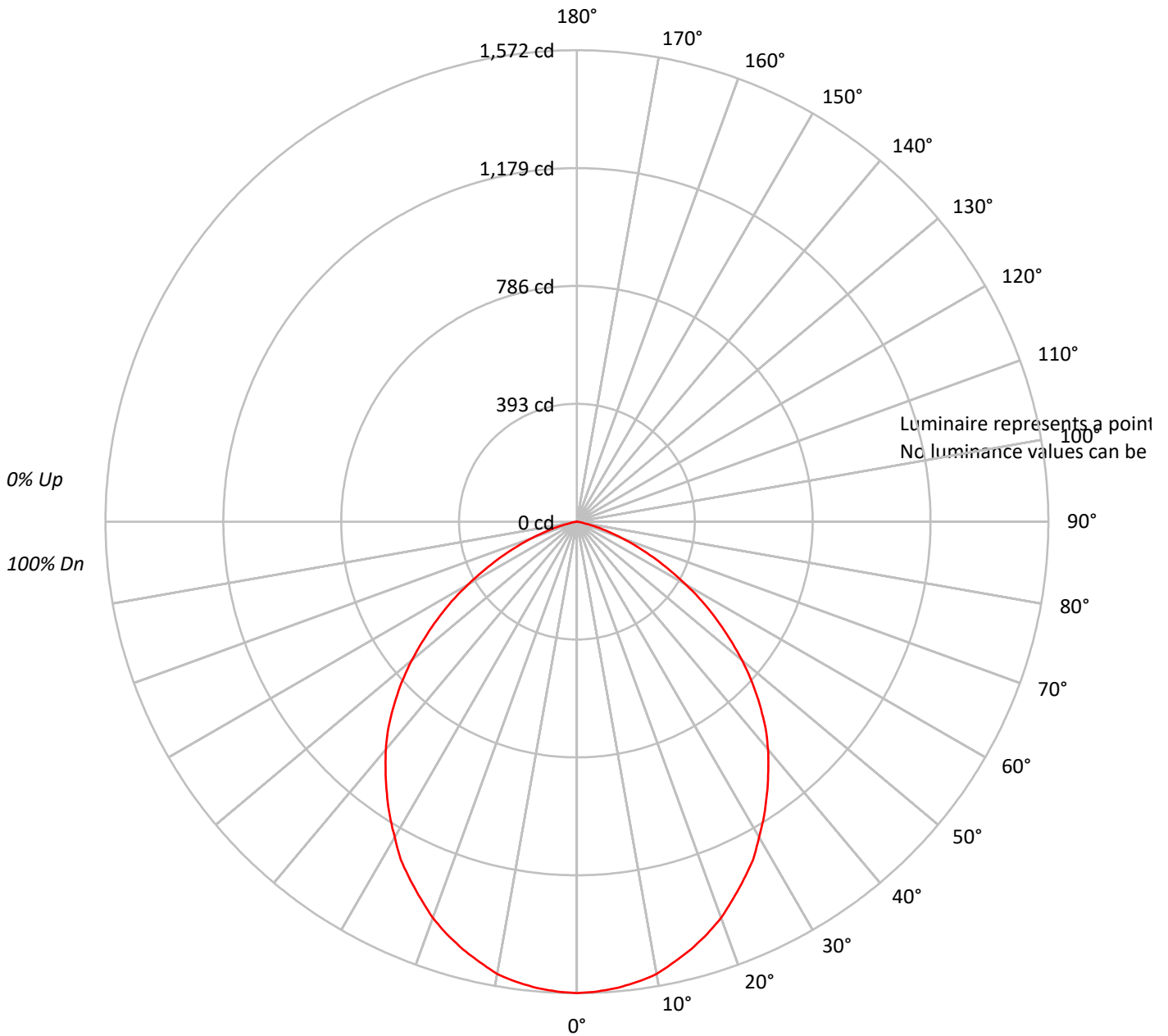
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.0	4.4
10°-20°	415.5	12.3
20°-30°	606.1	17.9
30°-40°	691.1	20.4
40°-50°	663.0	19.6
50°-60°	507.8	15.0
60°-70°	278.6	8.2
70°-80°	74.1	2.2
80°-90°	1.1	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°	1169.6	34.6
0°-40°	1860.8	55.0
0°-60°	3031.5	89.5
0°-90°	3385.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3385.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1572	
5°	1560	148
15°	1475	416
25°	1316	606
35°	1105	691
45°	861	663
55°	569	508
65°	280	279
75°	65	74
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1572.3
2.5°	1568.2
5°	1560.1
7.5°	1547.9
10°	1531.7
12.5°	1503.2
15°	1474.8
17.5°	1442.3
20°	1405.7
22.5°	1361.0
25°	1316.4
27.5°	1271.7
30°	1214.8
32.5°	1162.0
35°	1105.1
37.5°	1048.2
40°	991.3
42.5°	930.4
45°	861.3
47.5°	792.3
50°	719.1
52.5°	641.9
55°	568.8
57.5°	495.7
60°	418.5
62.5°	345.3
65°	280.3
67.5°	215.3
70°	158.5
72.5°	105.6
75°	65.0
77.5°	28.4
80°	8.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)