

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: P205640

Luminaire Tested: **LD4B50D010TE EU4B30508035 4LBSWMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205640  
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 EU4B30508035 4LBSWMH1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH WARM HAZE TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5309.6 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

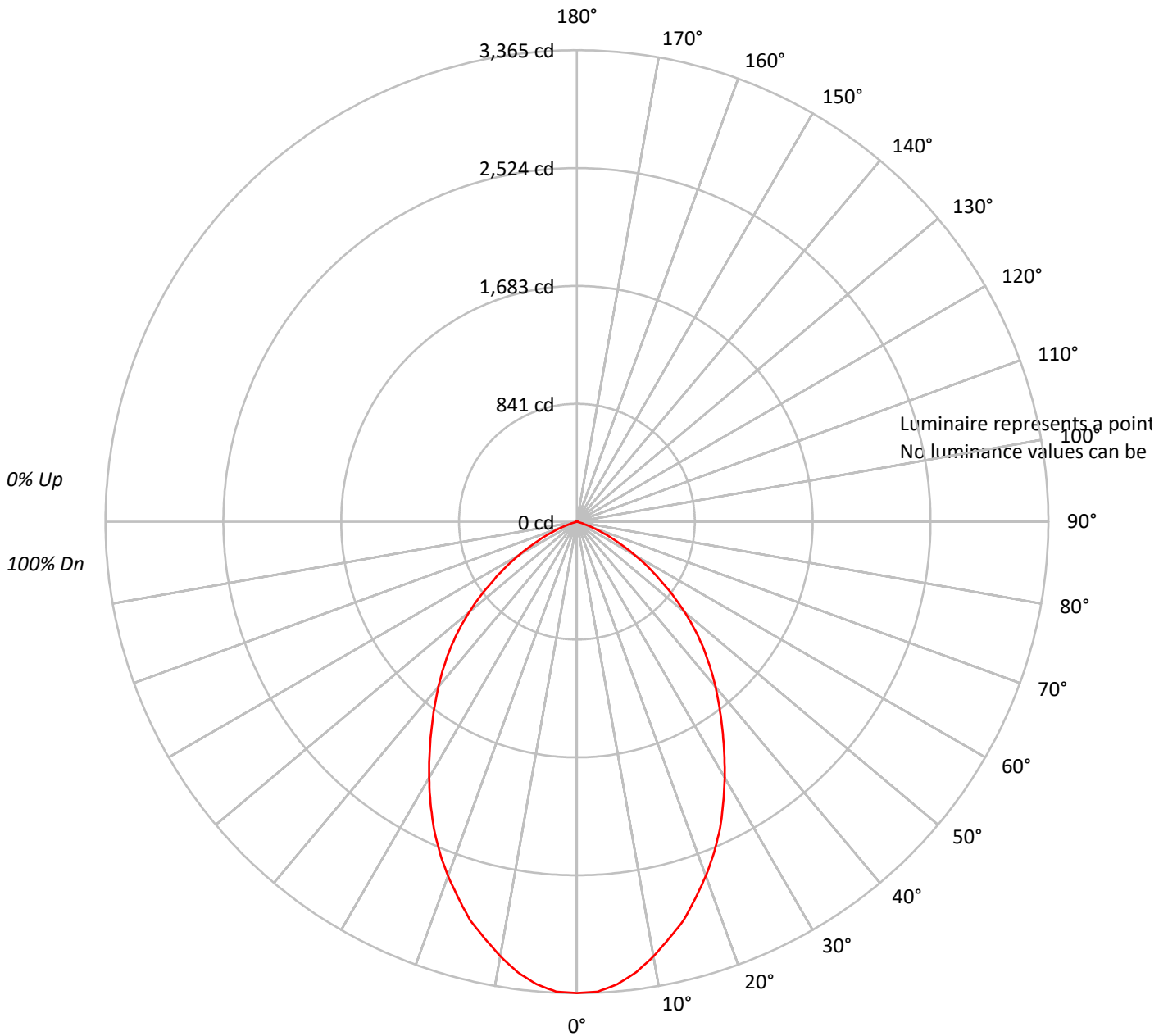
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90	90	
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70	70	
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	62	
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56	56	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45	45	
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41	41	
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38	38	
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35	35	

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.0	5.9
10°-20°	824.2	15.5
20°-30°	1106.9	20.8
30°-40°	1133.1	21.3
40°-50°	980.8	18.5
50°-60°	652.3	12.3
60°-70°	267.9	5.0
70°-80°	31.8	0.6
80°-90°	1.4	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°	2242.2	42.2
0°-40°	3375.3	63.6
0°-60°	5008.4	94.3
0°-90°	5309.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5309.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3365	
5°	3313	311
15°	2944	824
25°	2415	1107
35°	1810	1133
45°	1277	981
55°	724	652
65°	264	268
75°	14	32
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3365.2
2.5°	3358.2
5°	3313.0
7.5°	3243.4
10°	3149.4
12.5°	3045.0
15°	2944.1
17.5°	2815.4
20°	2690.1
22.5°	2557.8
25°	2415.2
27.5°	2262.0
30°	2108.9
32.5°	1955.8
35°	1809.6
37.5°	1670.4
40°	1538.2
42.5°	1405.9
45°	1277.2
47.5°	1141.5
50°	1002.3
52.5°	863.1
55°	723.8
57.5°	602.0
60°	476.8
62.5°	361.9
65°	264.5
67.5°	174.0
70°	100.9
72.5°	48.7
75°	13.9
77.5°	7.0
80°	3.5
82.5°	3.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)