

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: P206453

Luminaire Tested: **LD4B30D010 EU4B30509050 4LBCSMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206453  
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: LD4B30D010 EU4B30509050 4LBCSMB1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER TRIM  
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W  
DL3-29.67W DLE-29.73W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2484.9 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

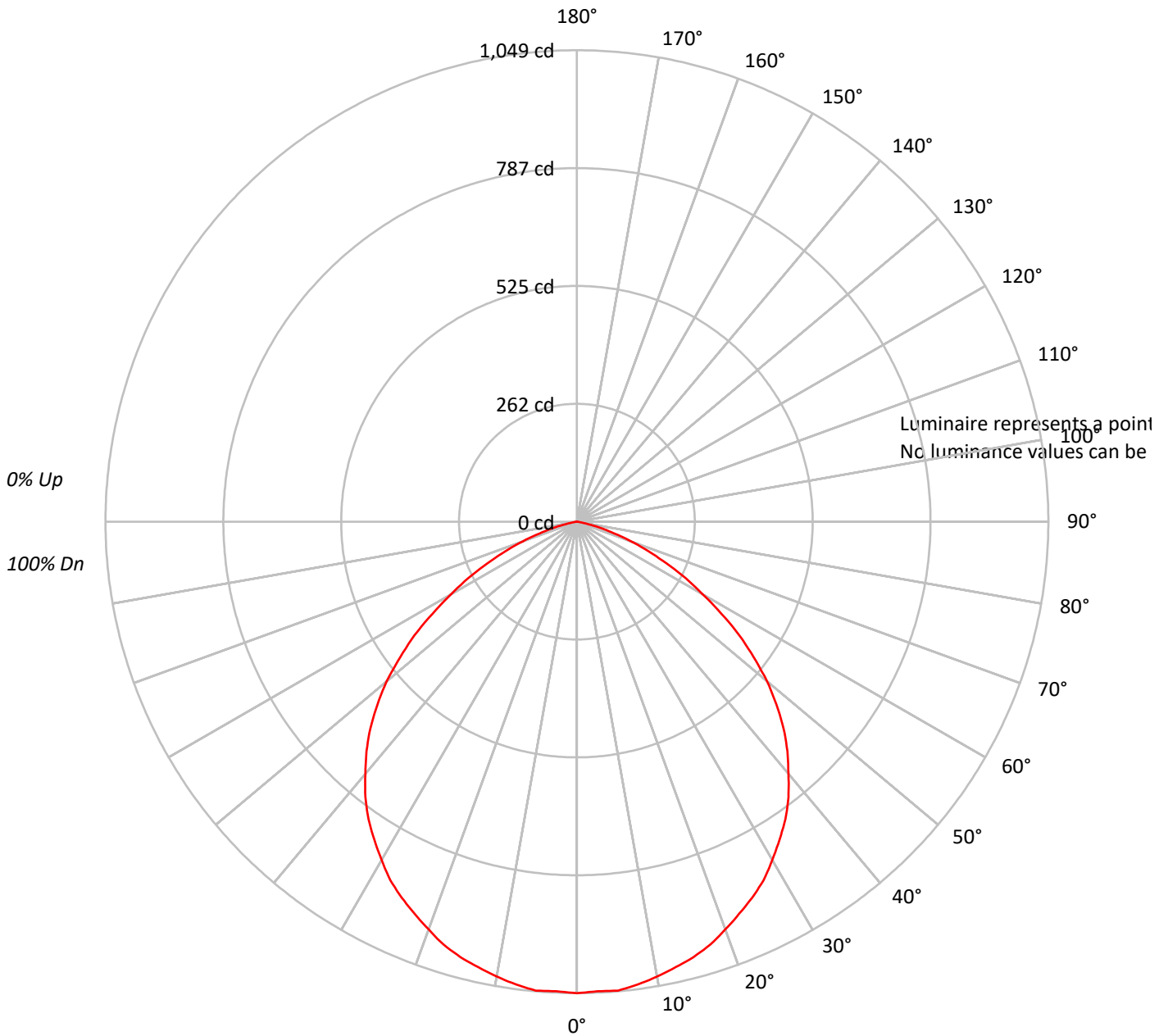
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75			75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65			65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56			56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49			49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39			39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35			35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28			28

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.2	4.0
10°-20°	282.7	11.4
20°-30°	425.0	17.1
30°-40°	504.3	20.3
40°-50°	499.1	20.1
50°-60°	392.0	15.8
60°-70°	219.8	8.8
70°-80°	61.7	2.5
80°-90°	1.0	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°	807.0	32.5
0°-40°	1311.4	52.8
0°-60°	2202.5	88.6
0°-90°	2484.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2484.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1049	
5°	1048	99
15°	1003	283
25°	923	425
35°	809	504
45°	650	499
55°	442	392
65°	219	220
75°	53	62
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1049.3
2.5°	1045.7
5°	1047.5
7.5°	1038.6
10°	1027.9
12.5°	1015.4
15°	1003.0
17.5°	986.9
20°	965.6
22.5°	944.2
25°	922.8
27.5°	899.6
30°	869.4
32.5°	839.1
35°	808.8
37.5°	773.2
40°	732.2
42.5°	693.0
45°	650.2
47.5°	602.1
50°	552.3
52.5°	495.3
55°	441.8
57.5°	381.2
60°	324.2
62.5°	272.6
65°	219.1
67.5°	172.8
70°	128.3
72.5°	87.3
75°	53.4
77.5°	26.7
80°	7.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)