

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: P206448

Luminaire Tested: **LD4B30D010 EU4B30509024 4LBCSMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206448  
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 EU4B30509024 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: 2060.4 lumens  
Efficiency: N/A  
Efficacy: 73.6 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

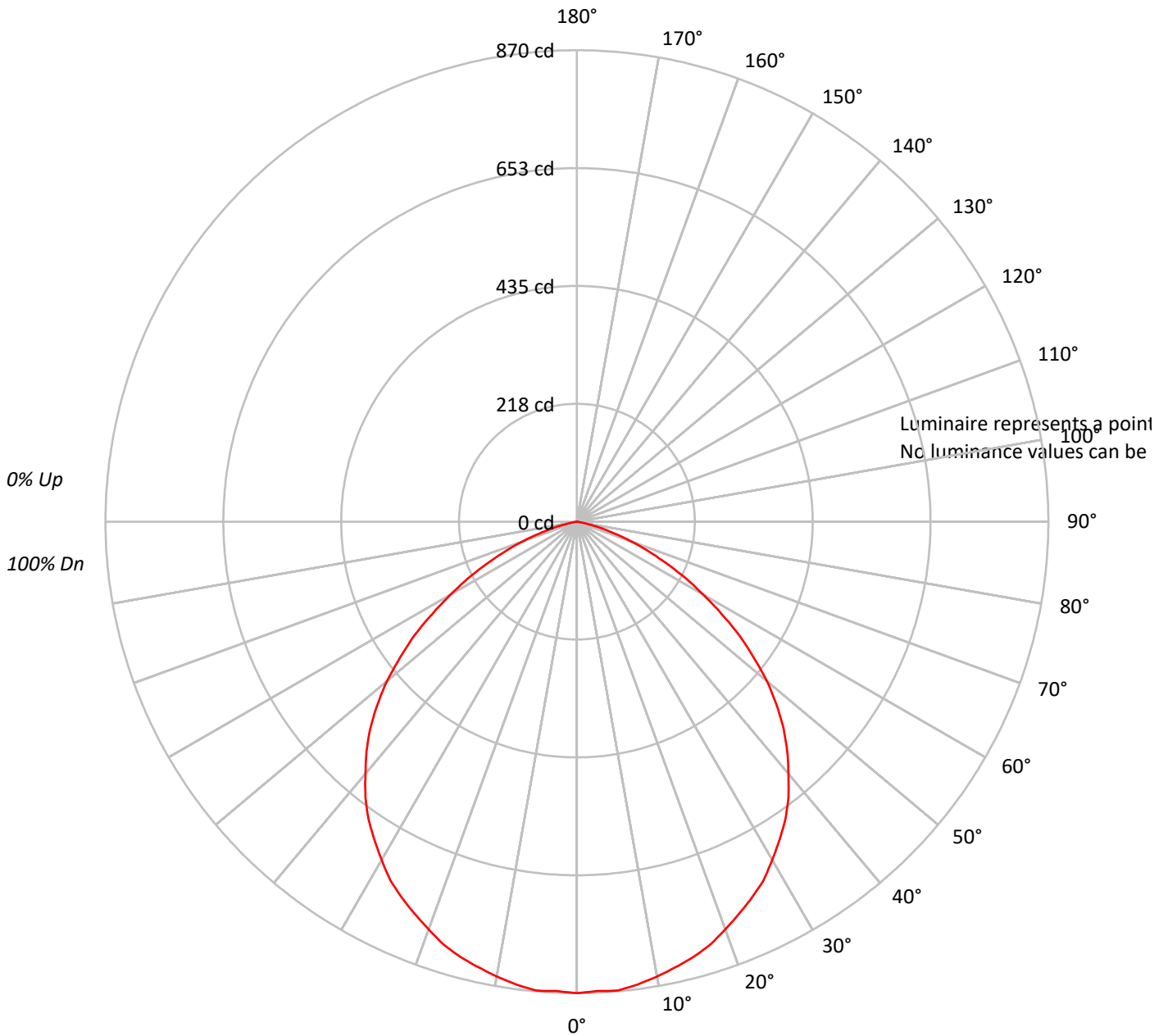
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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																			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65																			
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39																			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35																			
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28																			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	4.0
10°-20°	234.4	11.4
20°-30°	352.4	17.1
30°-40°	418.2	20.3
40°-50°	413.8	20.1
50°-60°	325.0	15.8
60°-70°	182.3	8.8
70°-80°	51.2	2.5
80°-90°	0.8	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°	669.1	32.5
0°-40°	1087.3	52.8
0°-60°	1826.2	88.6
0°-90°	2060.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2060.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	870	
5°	868	82
15°	832	234
25°	765	352
35°	671	418
45°	539	414
55°	366	325
65°	182	182
75°	44	51
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	870.0
2.5°	867.1
5°	868.5
7.5°	861.2
10°	852.3
12.5°	842.0
15°	831.6
17.5°	818.3
20°	800.6
22.5°	782.9
25°	765.1
27.5°	745.9
30°	720.8
32.5°	695.7
35°	670.6
37.5°	641.1
40°	607.1
42.5°	574.6
45°	539.1
47.5°	499.3
50°	457.9
52.5°	410.6
55°	366.3
57.5°	316.1
60°	268.8
62.5°	226.0
65°	181.7
67.5°	143.3
70°	106.4
72.5°	72.4
75°	44.3
77.5°	22.2
80°	5.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)