

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: P203986

Luminaire Tested: **LD6B40D010 EU6B30508050 6LBNB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203986  
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: LD6B40D010 EU6B30508050 6LBNB1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SPECULAR BLACK TRIM  
WATTAGE D010TR-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57  
W DL3-44.71 W DLE-39.33 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1887.9 lumens  
Efficiency: N/A  
Efficacy: 45.2 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.83  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

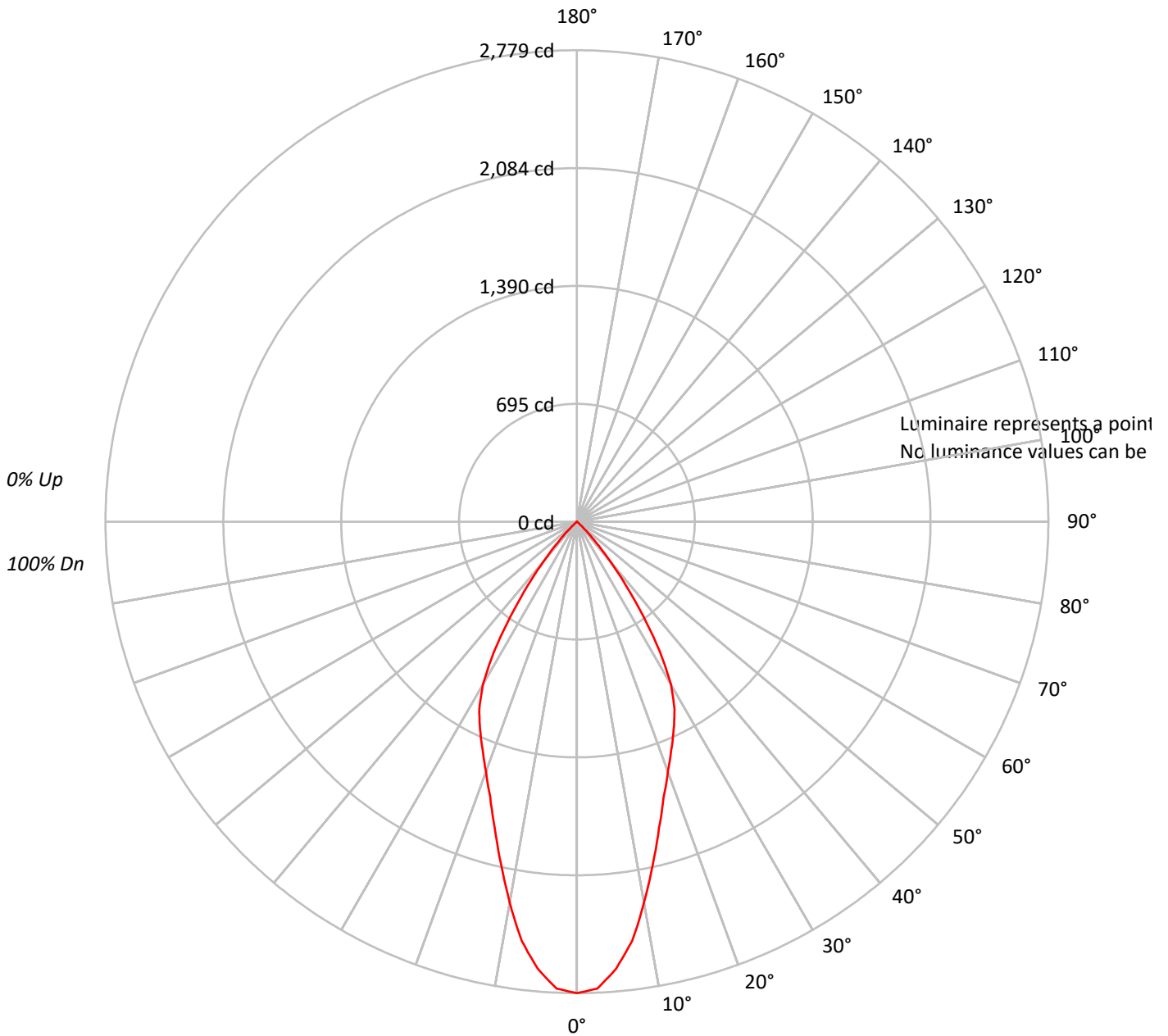
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P203986

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBNB1

### Luminous Intensity Polar Plot





TEST NUMBER: P203986

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBNB1

**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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88																			
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82																			
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77																			
5	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72																			
6	89	80	75	71	88	80	74	70	78	73	70	77	73	69	75	72	69	67																			
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63																			
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56																			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54	53																			

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





TEST NUMBER: P203986

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBNB1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.1	12.8
10°-20°	525.4	27.8
20°-30°	617.5	32.7
30°-40°	425.1	22.5
40°-50°	78.7	4.2
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	1384.0	73.3
0°-40°	1809.1	95.8
0°-60°	1887.9	100.0
0°-90°	1887.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2779	
5°	2646	241
15°	1869	525
25°	1350	617
35°	682	425
45°	79	79
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P203986

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBNB1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2779.2
2.5°	2754.5
5°	2645.7
7.5°	2492.4
10°	2279.7
12.5°	2067.1
15°	1869.3
17.5°	1701.1
20°	1567.6
22.5°	1453.9
25°	1350.0
27.5°	1246.2
30°	1107.7
32.5°	909.9
35°	682.4
37.5°	474.7
40°	301.7
42.5°	168.1
45°	79.1
47.5°	24.7
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)