

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: P203679

Luminaire Tested: **LD6B40D010 EU6B30509027 6LBNH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203679  
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 EU6B30509027 6LBNH1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 2158.3 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

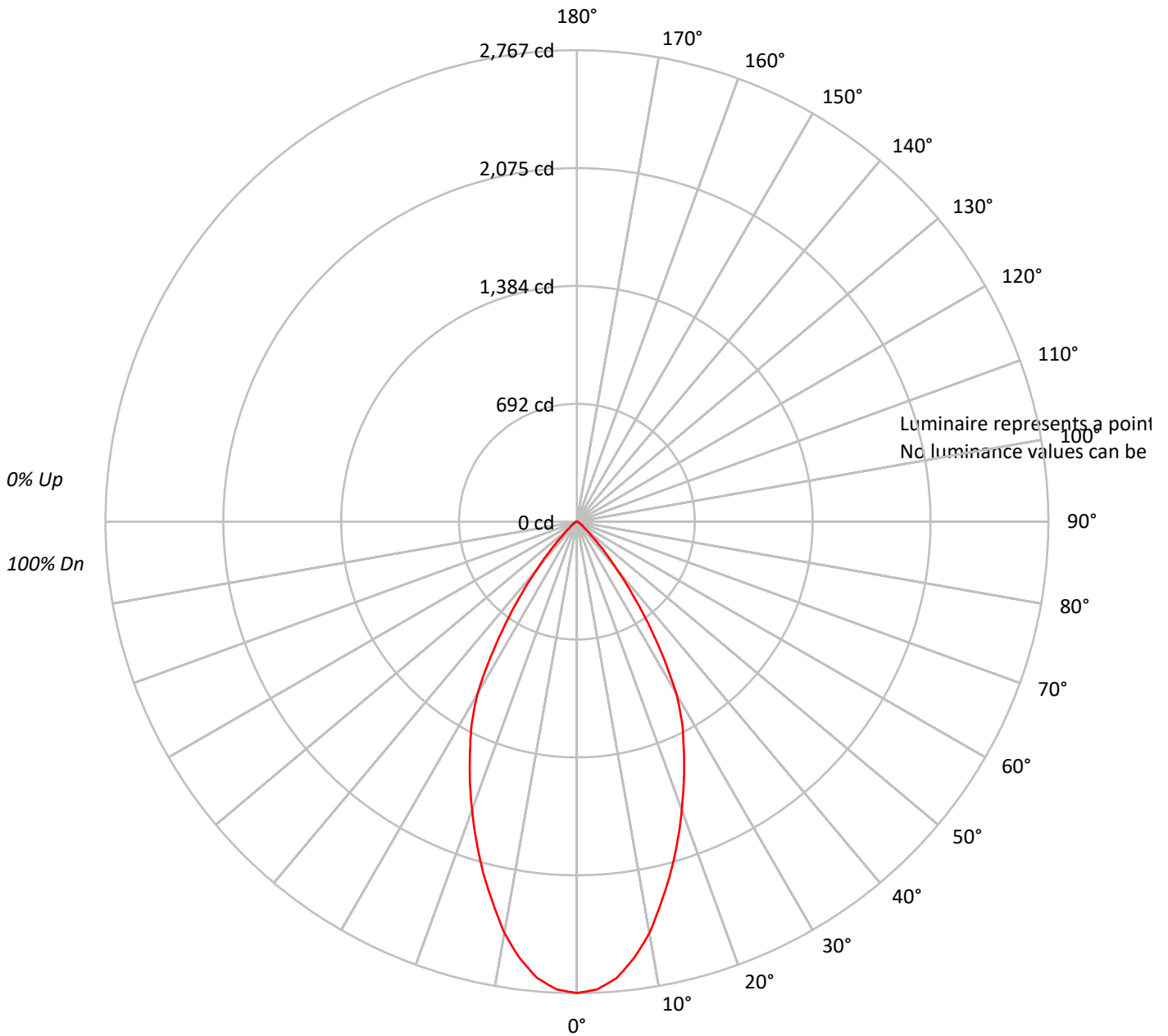
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P203679

CATALOG NUMBER: LD6B40D010 EU6B30509027 6LBNH1

### Luminous Intensity Polar Plot





TEST NUMBER: P203679

CATALOG NUMBER: LD6B40D010 EU6B30509027 6LBNH1

**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			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51			

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





TEST NUMBER: P203679

CATALOG NUMBER: LD6B40D010 EU6B30509027 6LBNH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.8	11.5
10°-20°	593.3	27.5
20°-30°	679.7	31.5
30°-40°	456.7	21.2
40°-50°	130.5	6.0
50°-60°	31.9	1.5
60°-70°	12.1	0.6
70°-80°	4.6	0.2
80°-90°	0.5	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°	1521.9	70.5
0°-40°	1978.6	91.7
0°-60°	2141.0	99.2
0°-90°	2158.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2767	
5°	2688	249
15°	2129	593
25°	1484	680
35°	728	457
45°	150	130
55°	35	32
65°	12	12
75°	4	5
85°	0	1
90°	0	



TEST NUMBER: P203679

CATALOG NUMBER: LD6B40D010 EU6B30509027 6LBNH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2766.8
2.5°	2747.1
5°	2688.1
7.5°	2581.8
10°	2451.9
12.5°	2286.6
15°	2129.2
17.5°	1963.9
20°	1798.6
22.5°	1641.2
25°	1483.8
27.5°	1338.1
30°	1168.9
32.5°	944.6
35°	728.1
37.5°	531.3
40°	366.0
42.5°	240.1
45°	149.6
47.5°	90.5
50°	55.1
52.5°	43.3
55°	35.4
57.5°	27.5
60°	19.7
62.5°	15.7
65°	11.8
67.5°	7.9
70°	7.9
72.5°	3.9
75°	3.9
77.5°	3.9
80°	3.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)