

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: P205202

Luminaire Tested: **LD6B20D010 EU6B10209730 6LBWLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205202  
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: LD6B20D010 EU6B10209730 6LBWLI1  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH SPECULAR CLEAR TRIM  
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W  
DL3-21.8 6 W DLE-22.46 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1537.3 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

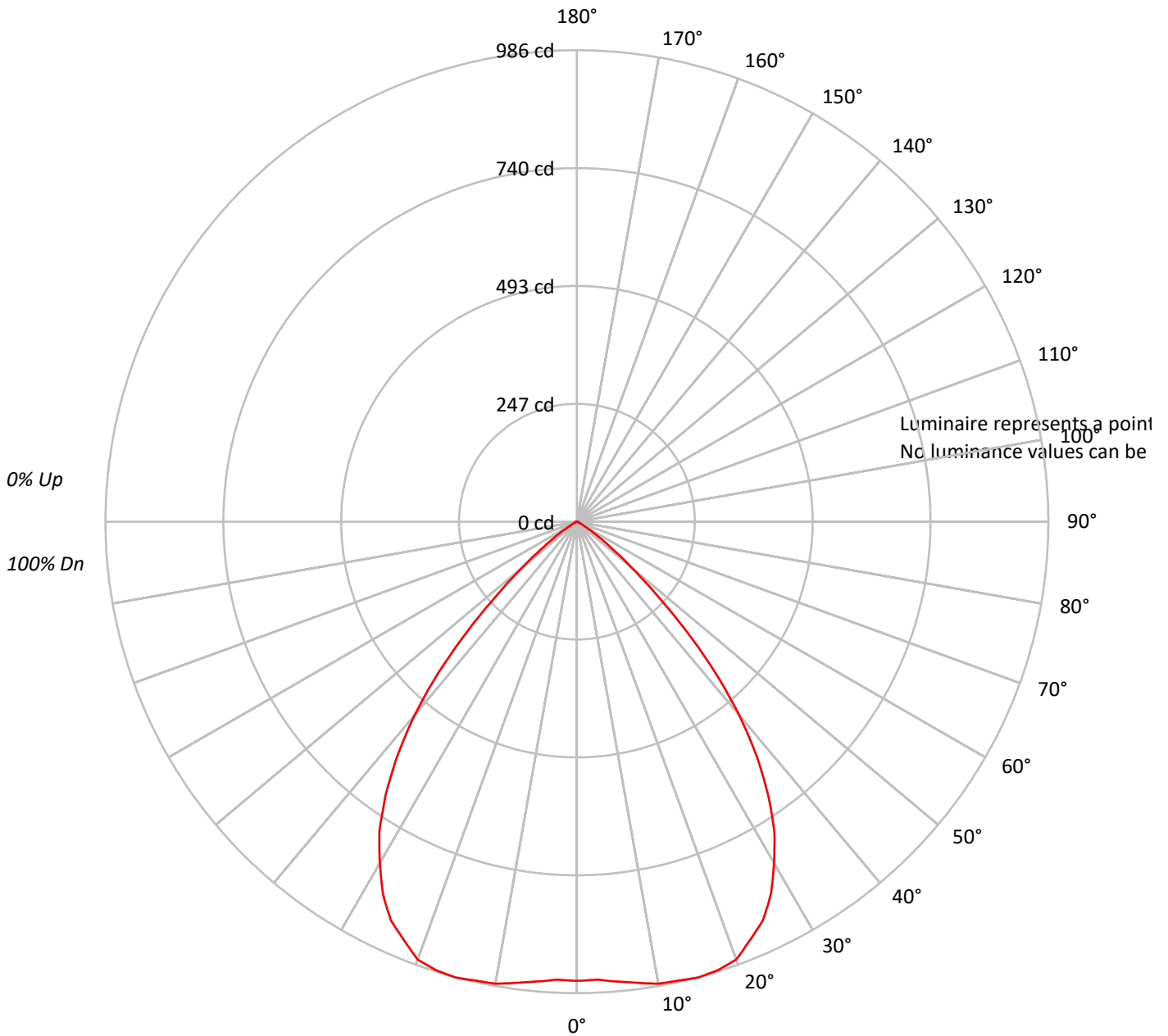
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P205202

CATALOG NUMBER: LD6B20D010 EU6B10209730 6LBWLI1

### Luminous Intensity Polar Plot





TEST NUMBER: P205202

CATALOG NUMBER: LD6B20D010 EU6B10209730 6LBWLI1

**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	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76			
4	93	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	70	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63			
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41			

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





TEST NUMBER: P205202

CATALOG NUMBER: LD6B20D010 EU6B10209730 6LBWL11

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	6.0
10°-20°	278.5	18.1
20°-30°	419.8	27.3
30°-40°	429.7	28.0
40°-50°	250.3	16.3
50°-60°	57.5	3.7
60°-70°	7.1	0.5
70°-80°	1.8	0.1
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°	790.9	51.4
0°-40°	1220.6	79.4
0°-60°	1528.4	99.4
0°-90°	1537.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	960	
5°	966	93
15°	986	278
25°	920	420
35°	697	430
45°	322	250
55°	56	58
65°	5	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P205202

CATALOG NUMBER: LD6B20D010 EU6B10209730 6LBWLI1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	960.4
2.5°	958.6
5°	965.6
7.5°	972.6
10°	981.3
12.5°	983.0
15°	986.5
17.5°	983.0
20°	974.3
22.5°	946.4
25°	920.3
27.5°	878.5
30°	824.4
32.5°	768.7
35°	697.2
37.5°	617.0
40°	528.1
42.5°	428.8
45°	322.5
47.5°	224.8
50°	148.2
52.5°	94.1
55°	55.8
57.5°	29.6
60°	15.7
62.5°	8.7
65°	5.2
67.5°	5.2
70°	3.5
72.5°	1.7
75°	1.7
77.5°	1.7
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)