

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: P203780

Luminaire Tested: **LD6B40D010 EU6B30508050 6LBNWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203780  
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 6LBNWH1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH WHEAT 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: 2913.6 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.64  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

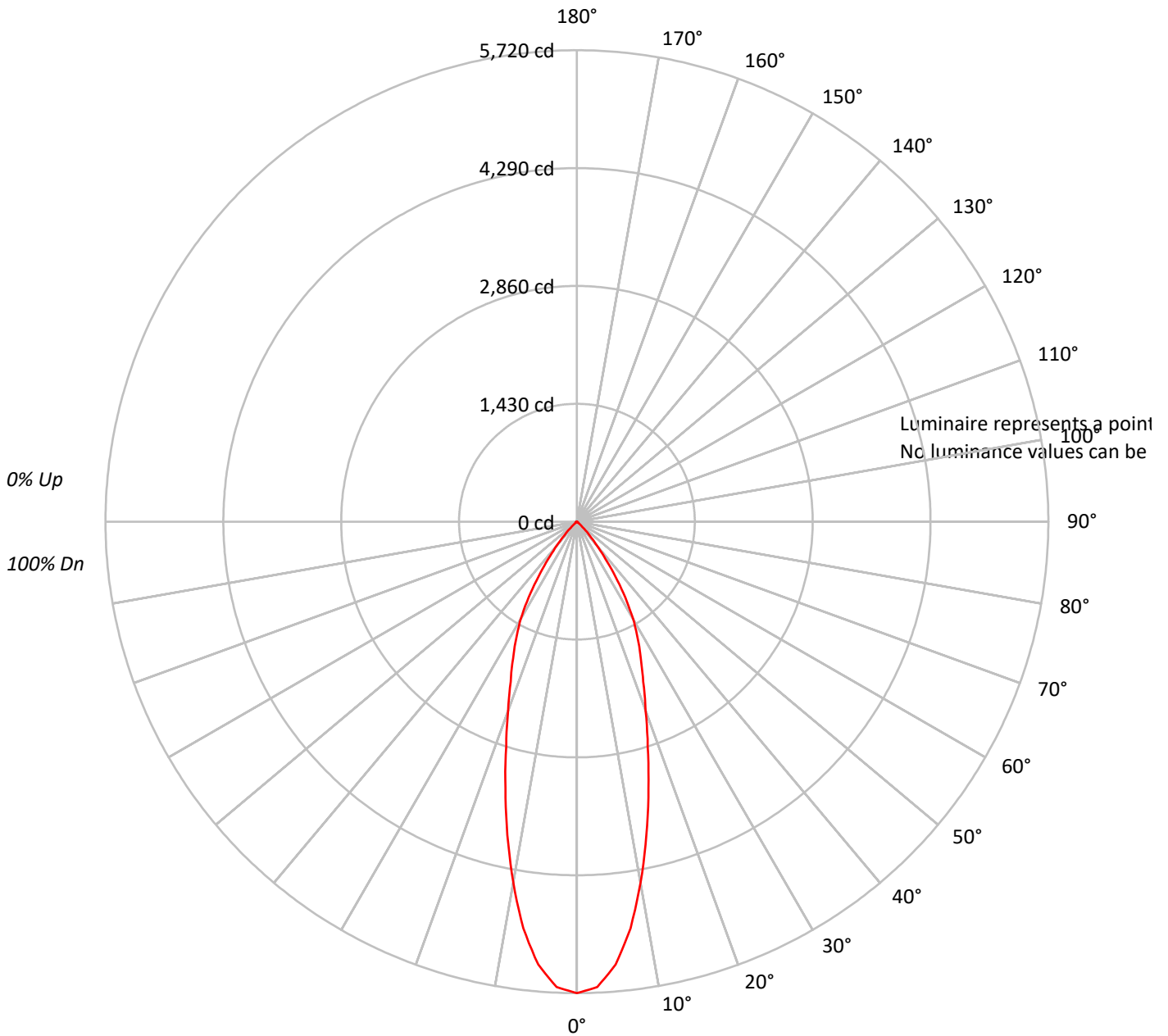
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P203780

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBNWH1

### Luminous Intensity Polar Plot





TEST NUMBER: P203780

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBNWH1

**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	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94			
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89			
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83			
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74			
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70			
7	87	78	73	69	85	77	72	69	76	72	68	75	71	68	74	70	67	66			
8	83	74	69	65	82	74	68	65	73	68	65	72	67	64	71	67	64	63			
9	79	71	65	62	78	70	65	61	69	65	61	68	64	61	68	64	61	60			
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57			

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





TEST NUMBER: P203780

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBNWH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	484.2	16.6
10°-20°	930.5	31.9
20°-30°	845.9	29.0
30°-40°	512.7	17.6
40°-50°	116.7	4.0
50°-60°	14.9	0.5
60°-70°	6.7	0.2
70°-80°	2.0	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°	2260.6	77.6
0°-40°	2773.3	95.2
0°-60°	2904.9	99.7
0°-90°	2913.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2913.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5720	
5°	5393	484
15°	3351	930
25°	1834	846
35°	813	513
45°	129	117
55°	15	15
65°	5	7
75°	0	2
85°	0	0
90°	0	



TEST NUMBER: P203780

CATALOG NUMBER: LD6B40D010 EU6B30508050 6LBNWH1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5720.3
2.5°	5650.9
5°	5393.1
7.5°	4976.7
10°	4446.3
12.5°	3896.1
15°	3350.9
17.5°	2855.2
20°	2438.8
22.5°	2101.7
25°	1834.1
27.5°	1596.1
30°	1363.1
32.5°	1090.5
35°	812.9
37.5°	570.0
40°	376.7
42.5°	233.0
45°	128.9
47.5°	59.5
50°	24.8
52.5°	19.8
55°	14.9
57.5°	14.9
60°	9.9
62.5°	9.9
65°	5.0
67.5°	5.0
70°	5.0
72.5°	5.0
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)