

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: P204086

Luminaire Tested: **LD6B40D010 EU6B30508030 6LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204086  
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 EU6B30508030 6LBNMW1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH MATTE WHITE 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: 3015.4 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

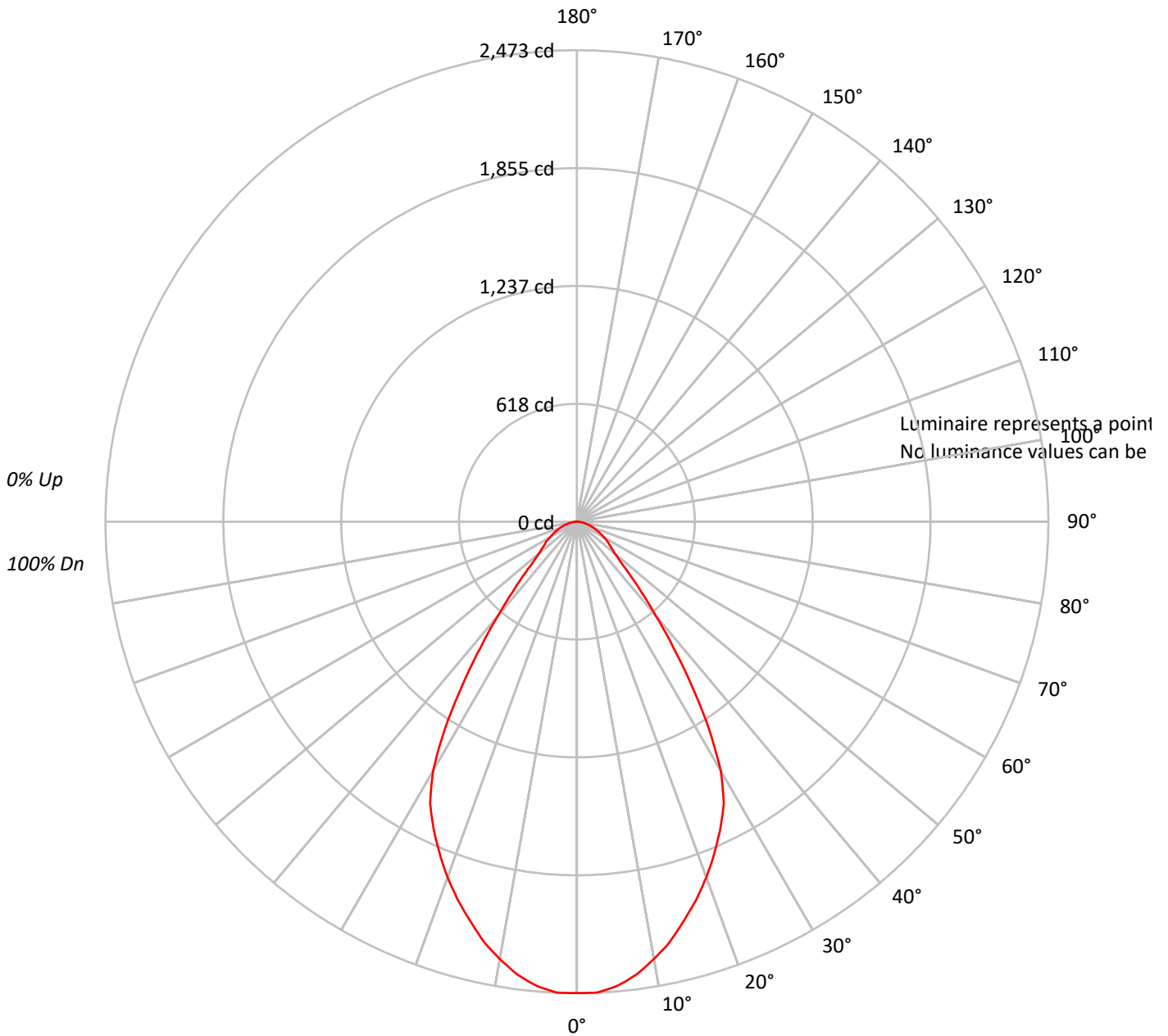
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P204086

CATALOG NUMBER: LD6B40D010 EU6B30508030 6LBNMW1

### Luminous Intensity Polar Plot





TEST NUMBER: P204086

CATALOG NUMBER: LD6B40D010 EU6B30508030 6LBNMW1

**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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	71	68	66			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	59	80	70	63	59	68	63	58	67	62	58	66	61	57	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41			

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





TEST NUMBER: P204086

CATALOG NUMBER: LD6B40D010 EU6B30508030 6LBNMW1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.6	7.6
10°-20°	608.7	20.2
20°-30°	812.6	26.9
30°-40°	655.6	21.7
40°-50°	314.2	10.4
50°-60°	186.2	6.2
60°-70°	123.8	4.1
70°-80°	66.3	2.2
80°-90°	18.3	0.6
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°	1650.9	54.8
0°-40°	2306.6	76.5
0°-60°	2807.0	93.1
0°-90°	3015.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2473	
5°	2444	230
15°	2166	609
25°	1778	813
35°	1050	656
45°	388	314
55°	206	186
65°	125	124
75°	62	66
85°	14	18
90°	0	



TEST NUMBER: P204086

CATALOG NUMBER: LD6B40D010 EU6B30508030 6LBNMW1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2472.9
2.5°	2472.9
5°	2444.2
7.5°	2396.3
10°	2329.2
12.5°	2257.3
15°	2166.2
17.5°	2080.0
20°	1984.1
22.5°	1883.5
25°	1778.0
27.5°	1667.8
30°	1509.6
32.5°	1289.2
35°	1049.6
37.5°	829.1
40°	642.2
42.5°	498.4
45°	388.2
47.5°	306.7
50°	258.8
52.5°	230.0
55°	206.1
57.5°	186.9
60°	162.9
62.5°	143.8
65°	124.6
67.5°	105.4
70°	91.1
72.5°	76.7
75°	62.3
77.5°	47.9
80°	38.3
82.5°	28.8
85°	14.4
87.5°	4.8
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)