

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: P204178

Luminaire Tested: **LD6B30D010 EU6B30508040 6LBSH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204178  
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: LD6B30D010 EU6B30508040 6LBSH1  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W  
DL3-29.67 W DLE-29.73 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3187.8 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

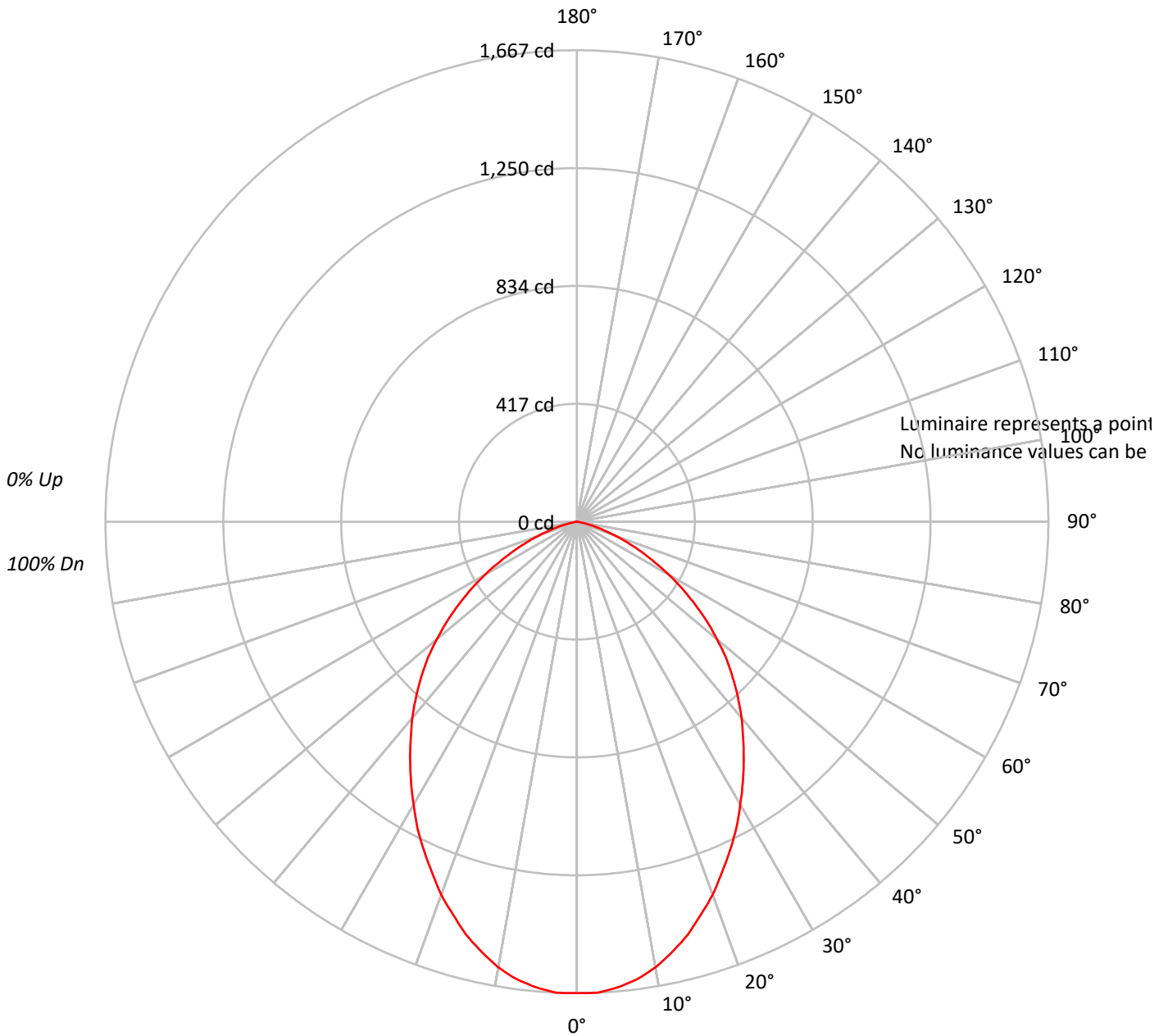
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P204178

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSH1

### Luminous Intensity Polar Plot





TEST NUMBER: P204178

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSH1

**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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

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





TEST NUMBER: P204178

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.2	4.9
10°-20°	424.5	13.3
20°-30°	589.5	18.5
30°-40°	643.3	20.2
40°-50°	600.1	18.8
50°-60°	455.4	14.3
60°-70°	249.4	7.8
70°-80°	68.6	2.2
80°-90°	0.9	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°	1170.1	36.7
0°-40°	1813.3	56.9
0°-60°	2868.8	90.0
0°-90°	3187.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3187.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1667	
5°	1653	156
15°	1513	424
25°	1281	589
35°	1028	643
45°	779	600
55°	509	455
65°	249	249
75°	60	69
85°	0	1
90°	0	



TEST NUMBER: P204178

CATALOG NUMBER: LD6B30D010 EU6B30508040 6LBSH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1667.2
2.5°	1667.2
5°	1653.2
7.5°	1632.1
10°	1600.5
12.5°	1558.4
15°	1512.8
17.5°	1456.6
20°	1404.0
22.5°	1340.8
25°	1281.1
27.5°	1221.4
30°	1154.8
32.5°	1091.6
35°	1028.4
37.5°	965.2
40°	905.6
42.5°	842.4
45°	779.2
47.5°	716.0
50°	645.8
52.5°	579.1
55°	508.9
57.5°	442.2
60°	375.6
62.5°	308.9
65°	249.2
67.5°	193.0
70°	143.9
72.5°	98.3
75°	59.7
77.5°	28.1
80°	7.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)