

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: P202751

Luminaire Tested: **LD6B40D010 EU6B30509024 6LBWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P202751  
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 EU6B30509024 6LBWH1  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE 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: 2670.1 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

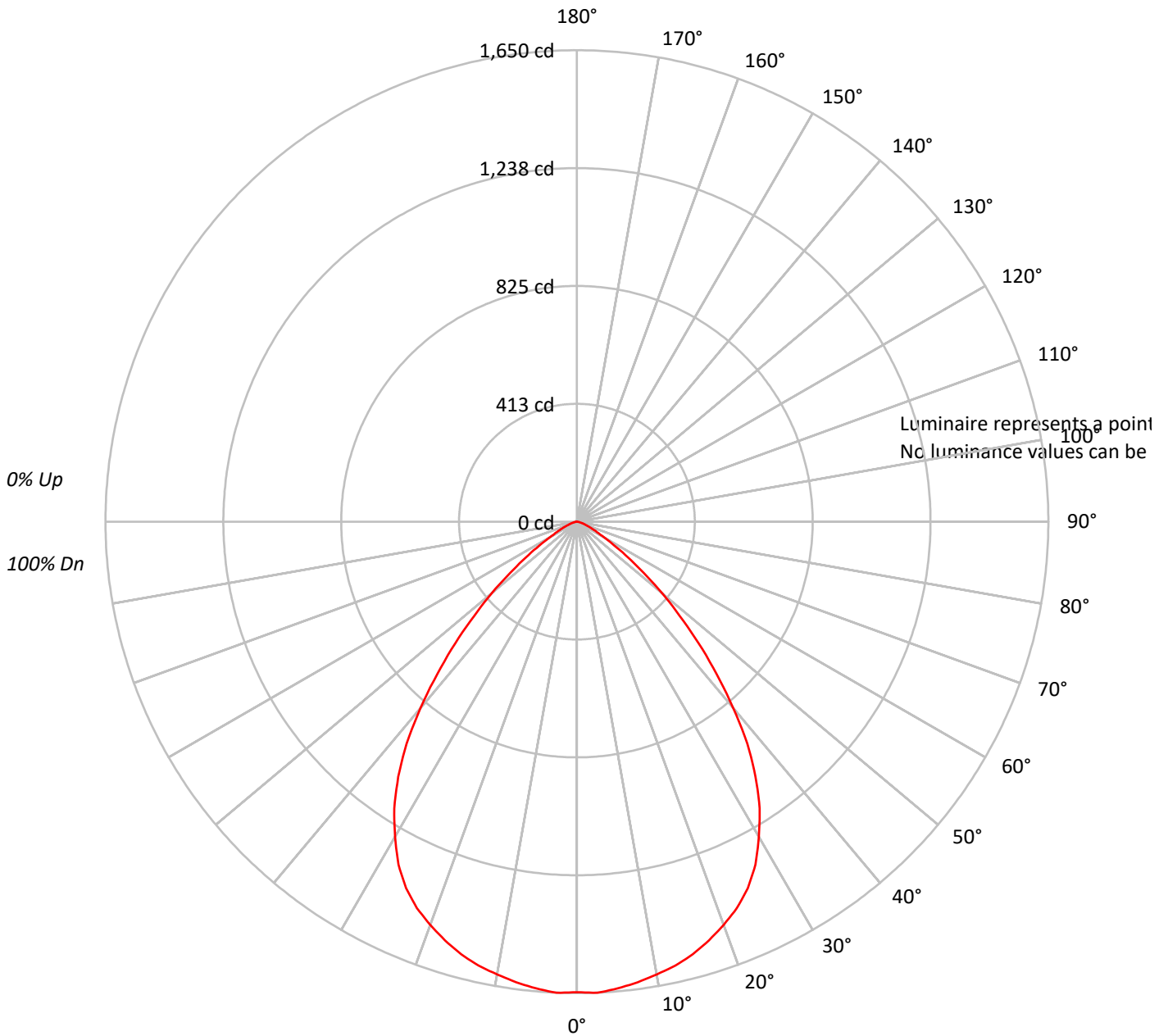
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P202751

CATALOG NUMBER: LD6B40D010 EU6B30509024 6LBWH1

### Luminous Intensity Polar Plot





TEST NUMBER: P202751

CATALOG NUMBER: LD6B40D010 EU6B30509024 6LBWH1

**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	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			

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





TEST NUMBER: P202751

CATALOG NUMBER: LD6B40D010 EU6B30509024 6LBWH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	5.8
10°-20°	441.4	16.5
20°-30°	647.1	24.2
30°-40°	673.5	25.2
40°-50°	466.0	17.5
50°-60°	202.9	7.6
60°-70°	62.2	2.3
70°-80°	18.7	0.7
80°-90°	2.8	0.1
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°	1244.0	46.6
0°-40°	1917.5	71.8
0°-60°	2586.4	96.9
0°-90°	2670.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1647	
5°	1640	156
15°	1567	441
25°	1415	647
35°	1090	674
45°	602	466
55°	218	203
65°	59	62
75°	17	19
85°	4	3
90°	0	



TEST NUMBER: P202751

CATALOG NUMBER: LD6B40D010 EU6B30509024 6LBWH1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1646.9
2.5°	1650.3
5°	1640.0
7.5°	1626.1
10°	1608.8
12.5°	1591.5
15°	1567.3
17.5°	1536.2
20°	1501.6
22.5°	1463.5
25°	1415.1
27.5°	1352.8
30°	1273.2
32.5°	1190.2
35°	1089.9
37.5°	979.1
40°	851.1
42.5°	723.1
45°	602.0
47.5°	487.8
50°	387.5
52.5°	294.1
55°	218.0
57.5°	155.7
60°	107.3
62.5°	79.6
65°	58.8
67.5°	45.0
70°	31.1
72.5°	24.2
75°	17.3
77.5°	10.4
80°	6.9
82.5°	3.5
85°	3.5
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)