

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: P202653

Luminaire Tested: **LD6B40D010 EU6B30509050 6LBMWMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P202653  
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 EU6B30509050 6LBMWMH1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH WARM HAZE 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: 2856.3 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.89  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

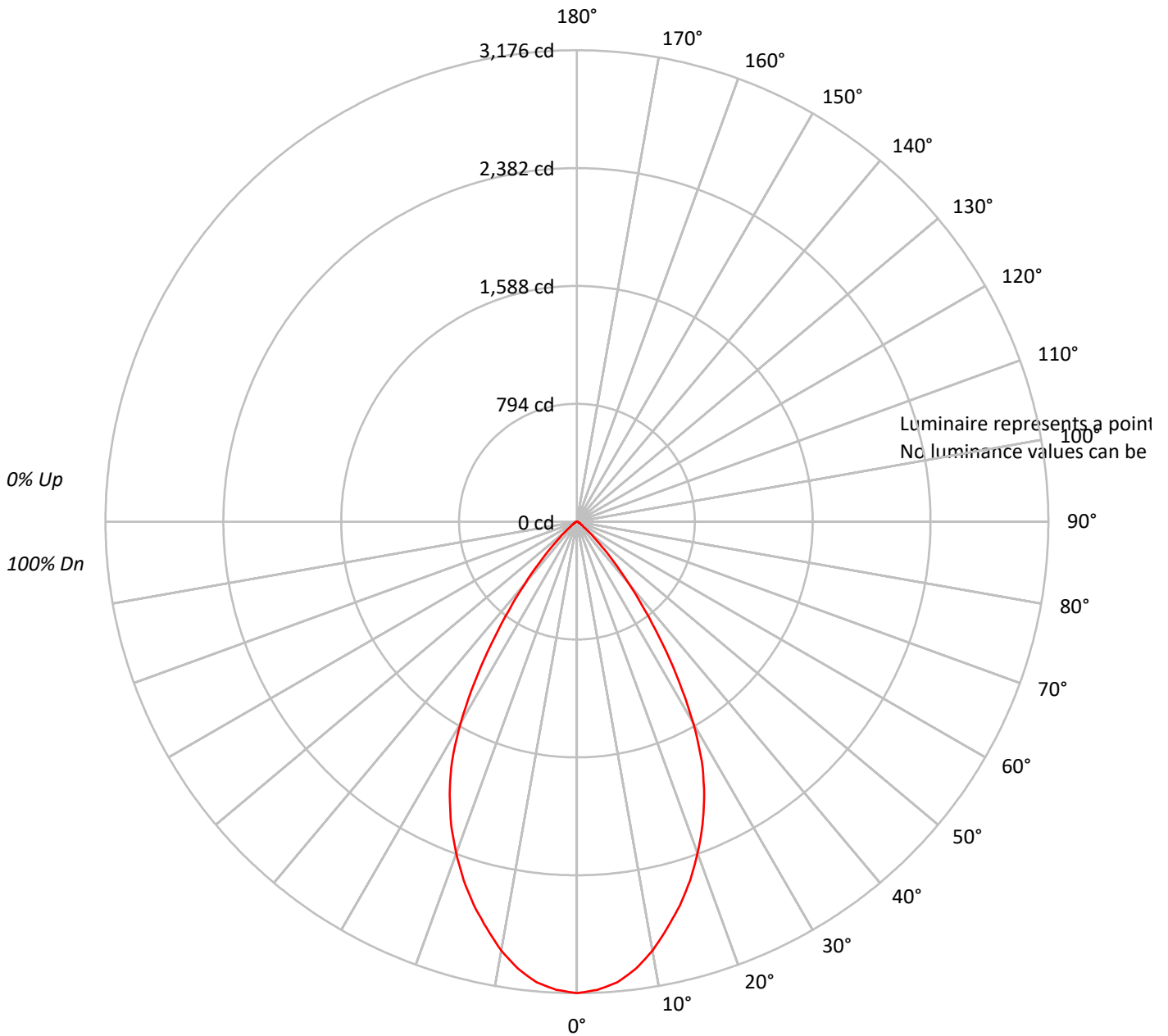
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P202653

CATALOG NUMBER: LD6B40D010 EU6B30509050 6LBMWMH1

### Luminous Intensity Polar Plot





TEST NUMBER: P202653

CATALOG NUMBER: LD6B40D010 EU6B30509050 6LBMWMH1

**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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74			
5	92	83	77	73	90	82	77	73	80	76	72	79	75	71	77	74	71	69			
6	87	78	72	67	85	77	71	67	76	71	67	74	70	66	73	69	66	64			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56			
9	75	65	59	55	73	64	59	55	63	58	54	62	58	54	62	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50			

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





TEST NUMBER: P202653

CATALOG NUMBER: LD6B40D010 EU6B30509050 6LBMWMH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.5	10.2
10°-20°	748.4	26.2
20°-30°	919.2	32.2
30°-40°	630.3	22.1
40°-50°	202.6	7.1
50°-60°	41.1	1.4
60°-70°	16.1	0.6
70°-80°	6.0	0.2
80°-90°	1.0	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°	1959.1	68.6
0°-40°	2589.4	90.7
0°-60°	2833.1	99.2
0°-90°	2856.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3176	
5°	3116	292
15°	2677	748
25°	2028	919
35°	1006	630
45°	240	203
55°	41	41
65°	17	16
75°	5	6
85°	0	1
90°	0	



TEST NUMBER: P202653

CATALOG NUMBER: LD6B40D010 EU6B30509050 6LBMWMH1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3176.4
2.5°	3157.0
5°	3115.8
7.5°	3038.3
10°	2934.1
12.5°	2805.7
15°	2677.3
17.5°	2534.4
20°	2376.9
22.5°	2212.1
25°	2028.0
27.5°	1824.4
30°	1567.6
32.5°	1284.1
35°	1005.5
37.5°	751.1
40°	540.3
42.5°	368.3
45°	239.9
47.5°	147.8
50°	89.6
52.5°	55.7
55°	41.2
57.5°	31.5
60°	24.2
62.5°	19.4
65°	17.0
67.5°	12.1
70°	9.7
72.5°	7.3
75°	4.8
77.5°	4.8
80°	2.4
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)