

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: P204091

Luminaire Tested: **LD6B40D010 EU6B30509027 6LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204091  
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 EU6B30509027 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: 2476.8 lumens  
Efficiency: N/A  
Efficacy: 59.3 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

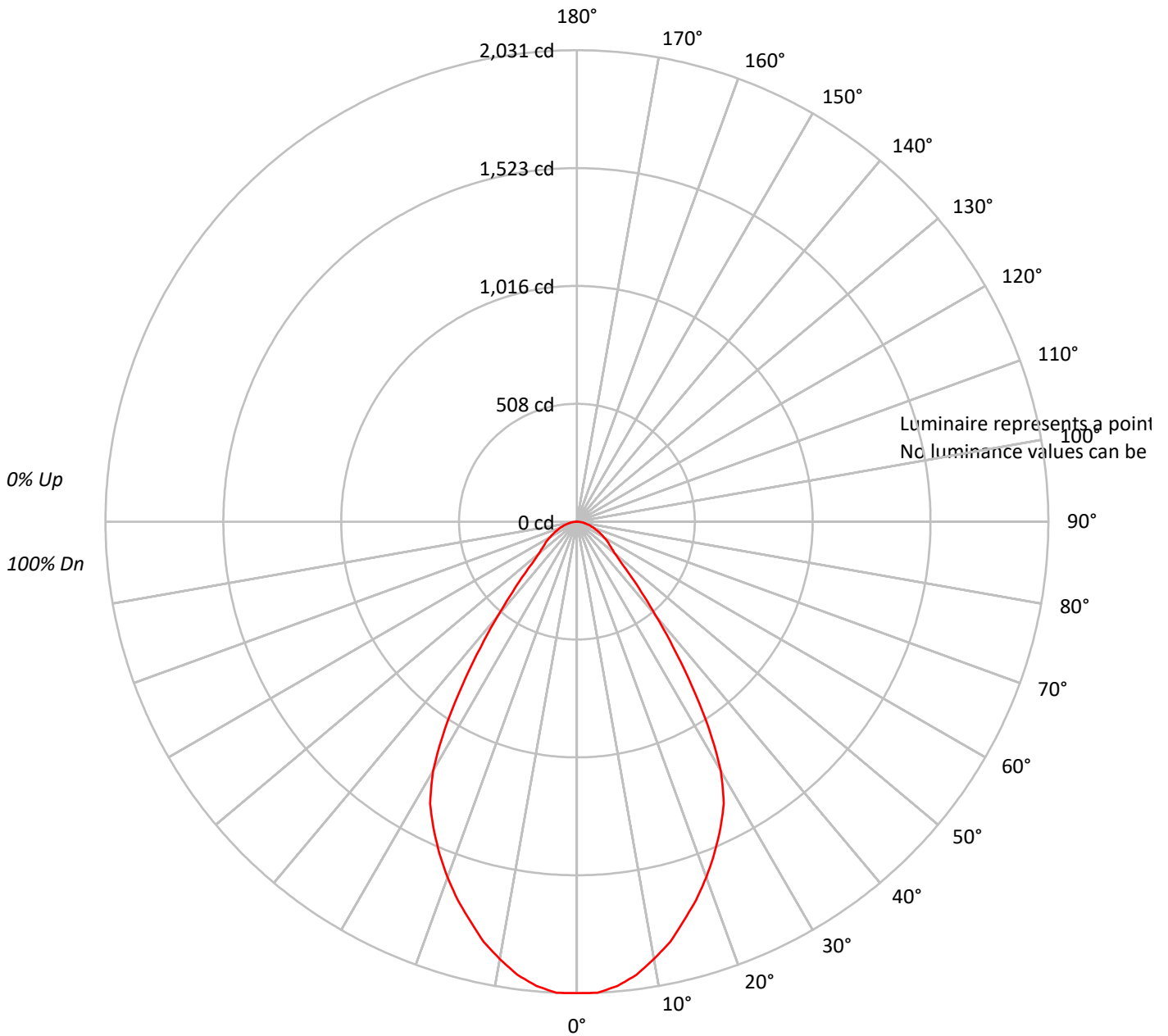
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.6	7.6
10°-20°	500.0	20.2
20°-30°	667.5	26.9
30°-40°	538.5	21.7
40°-50°	258.1	10.4
50°-60°	153.0	6.2
60°-70°	101.7	4.1
70°-80°	54.5	2.2
80°-90°	15.0	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°	1356.1	54.8
0°-40°	1894.6	76.5
0°-60°	2305.6	93.1
0°-90°	2476.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2031	
5°	2008	189
15°	1779	500
25°	1460	667
35°	862	539
45°	319	258
55°	169	153
65°	102	102
75°	51	55
85°	12	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2031.2
2.5°	2031.2
5°	2007.6
7.5°	1968.3
10°	1913.1
12.5°	1854.1
15°	1779.3
17.5°	1708.4
20°	1629.7
22.5°	1547.1
25°	1460.4
27.5°	1369.9
30°	1240.0
32.5°	1058.9
35°	862.1
37.5°	681.0
40°	527.5
42.5°	409.4
45°	318.9
47.5°	251.9
50°	212.6
52.5°	189.0
55°	169.3
57.5°	153.5
60°	133.8
62.5°	118.1
65°	102.3
67.5°	86.6
70°	74.8
72.5°	63.0
75°	51.2
77.5°	39.4
80°	31.5
82.5°	23.6
85°	11.8
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)