

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: P205400

Luminaire Tested: **LD6B20D010 EU6B10209030 6LBSLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205400  
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: LD6B20D010 EU6B10209030 6LBSLI1  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR TRIM  
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W  
DL3-21.8 6 W DLE-22.46 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1876.8 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1.04  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

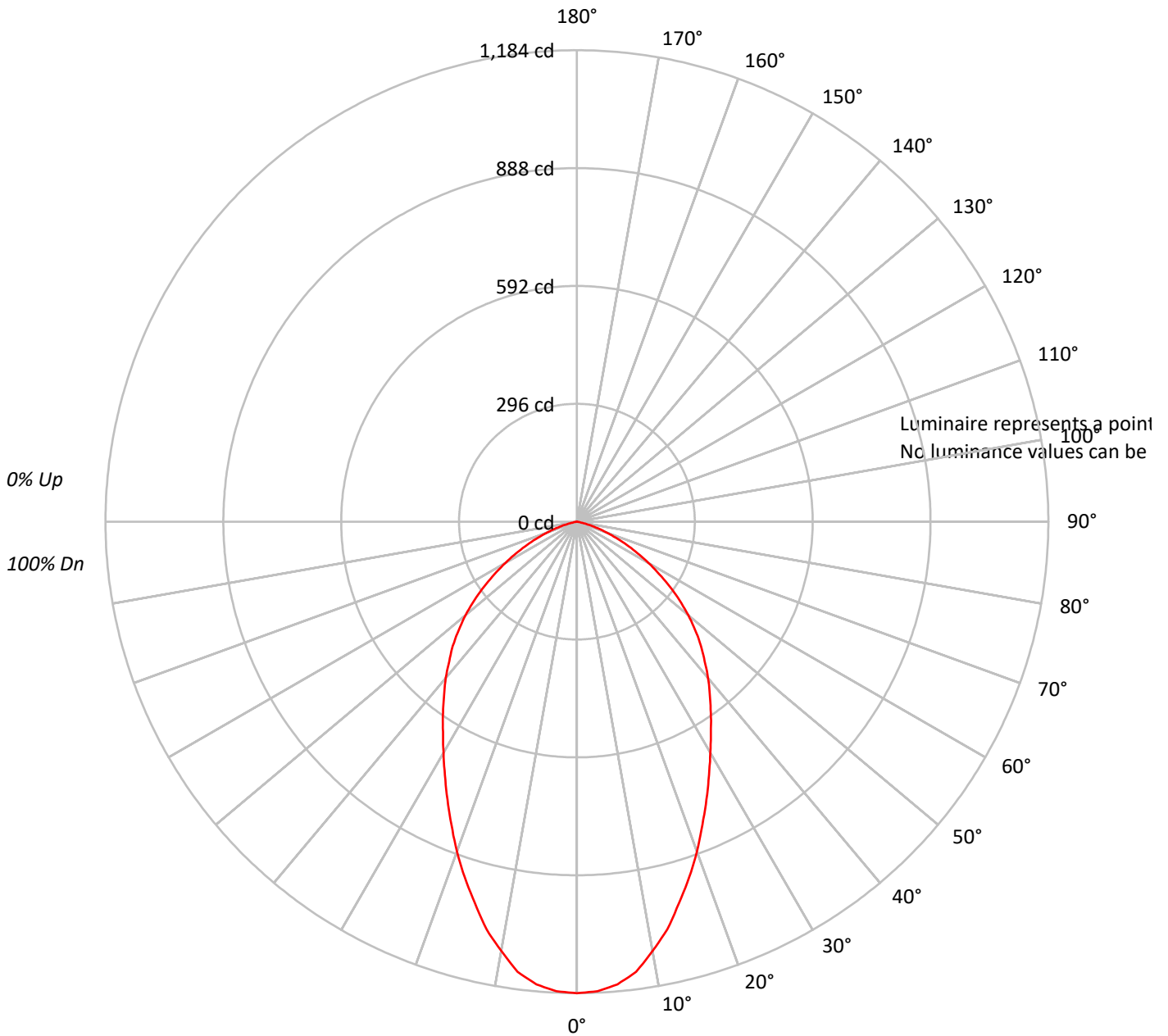
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			
5	82	71	63	57	80	70	62	57	67	61	56	66	60	55	64	59	55	53			
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47			
7	71	59	51	46	70	58	51	45	57	50	45	55	49	45	54	49	45	43			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.1	5.8
10°-20°	277.8	14.8
20°-30°	354.3	18.9
30°-40°	367.4	19.6
40°-50°	338.5	18.0
50°-60°	254.7	13.6
60°-70°	137.5	7.3
70°-80°	36.9	2.0
80°-90°	0.5	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°	741.3	39.5
0°-40°	1108.7	59.1
0°-60°	1701.9	90.7
0°-90°	1876.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1876.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1184	
5°	1166	109
15°	991	278
25°	770	354
35°	586	367
45°	441	339
55°	285	255
65°	138	137
75°	32	37
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1184.4
2.5°	1180.4
5°	1166.4
7.5°	1140.5
10°	1094.6
12.5°	1048.8
15°	991.0
17.5°	937.1
20°	881.3
22.5°	823.5
25°	769.6
27.5°	717.8
30°	669.9
32.5°	626.1
35°	586.2
37.5°	548.3
40°	512.4
42.5°	474.5
45°	440.6
47.5°	402.8
50°	364.9
52.5°	325.0
55°	285.1
57.5°	245.2
60°	207.4
62.5°	171.5
65°	137.6
67.5°	105.7
70°	77.8
72.5°	53.8
75°	31.9
77.5°	14.0
80°	4.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)