

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: P204481

Luminaire Tested: **LD6B20D010 EU6B10209050 6LBSB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204481  
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 EU6B10209050 6LBSB1  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH SPECULAR BLACK 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: 1625.8 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

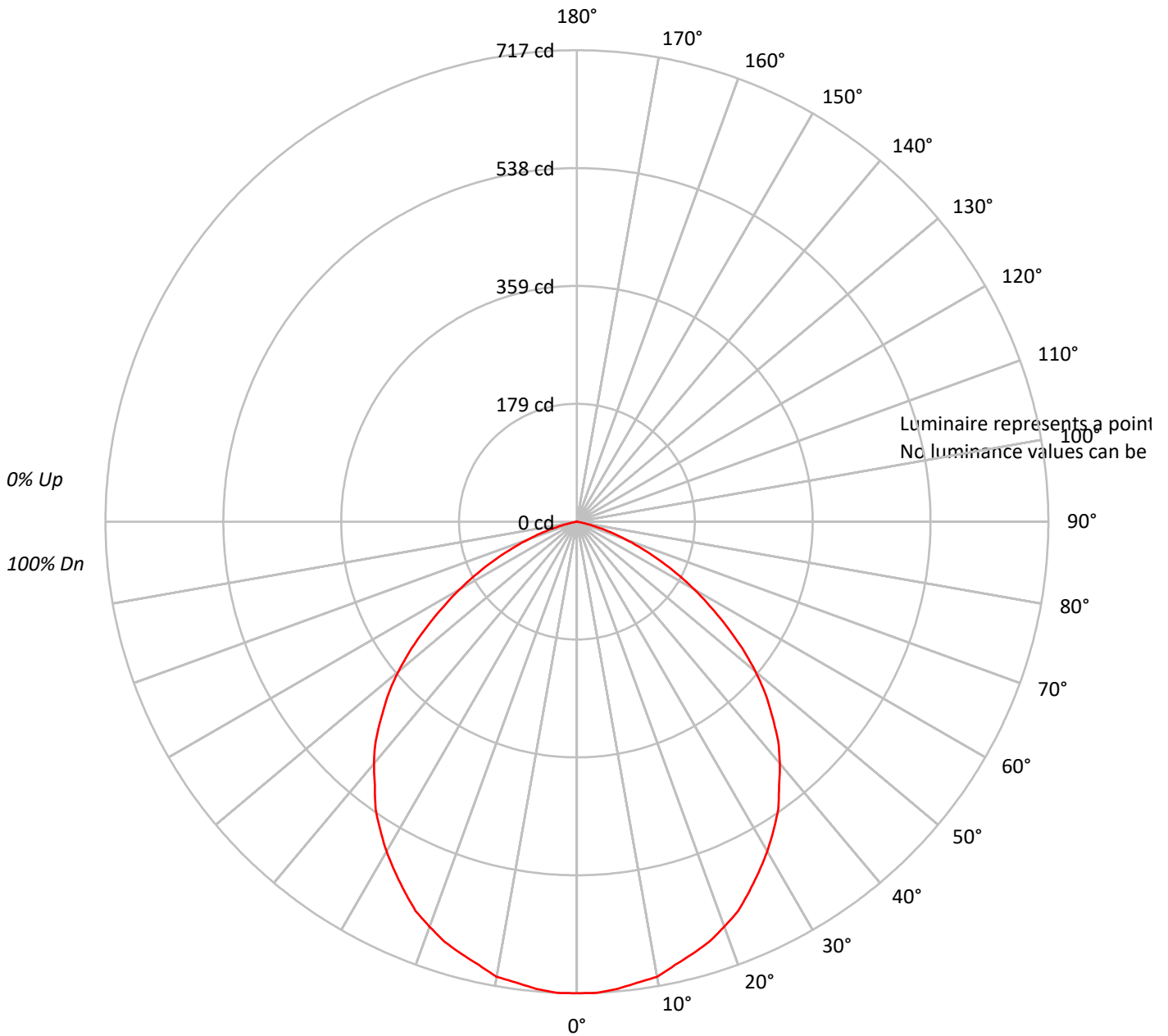
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P204481

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBSB1

### Luminous Intensity Polar Plot





TEST NUMBER: P204481

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBSB1

**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			100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88			88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76			76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65			65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57			57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44			44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39			39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			29

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





TEST NUMBER: P204481

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBSB1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	4.2
10°-20°	192.1	11.8
20°-30°	285.7	17.6
30°-40°	332.5	20.4
40°-50°	324.1	19.9
50°-60°	249.2	15.3
60°-70°	137.8	8.5
70°-80°	36.5	2.2
80°-90°	0.3	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°	545.5	33.6
0°-40°	878.0	54.0
0°-60°	1451.3	89.3
0°-90°	1625.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1625.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	717	
5°	713	68
15°	680	192
25°	620	286
35°	534	332
45°	420	324
55°	278	249
65°	138	138
75°	31	36
85°	0	0
90°	0	



TEST NUMBER: P204481

CATALOG NUMBER: LD6B20D010 EU6B10209050 6LBSB1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	717.2
2.5°	717.2
5°	713.1
7.5°	706.9
10°	702.8
12.5°	690.4
15°	680.1
17.5°	669.8
20°	655.4
22.5°	641.0
25°	620.4
27.5°	599.7
30°	579.1
32.5°	556.5
35°	533.8
37.5°	504.9
40°	480.2
42.5°	453.4
45°	420.4
47.5°	389.5
50°	354.5
52.5°	317.4
55°	278.2
57.5°	241.1
60°	206.1
62.5°	171.1
65°	138.1
67.5°	107.2
70°	78.3
72.5°	53.6
75°	30.9
77.5°	14.4
80°	2.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)