

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: P204893

Luminaire Tested: **LD6B20D010 EU6B10209035 6LBCSMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204893  
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 EU6B10209035 6LBCSMB1  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH CAST MATTE 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: 1638.6 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

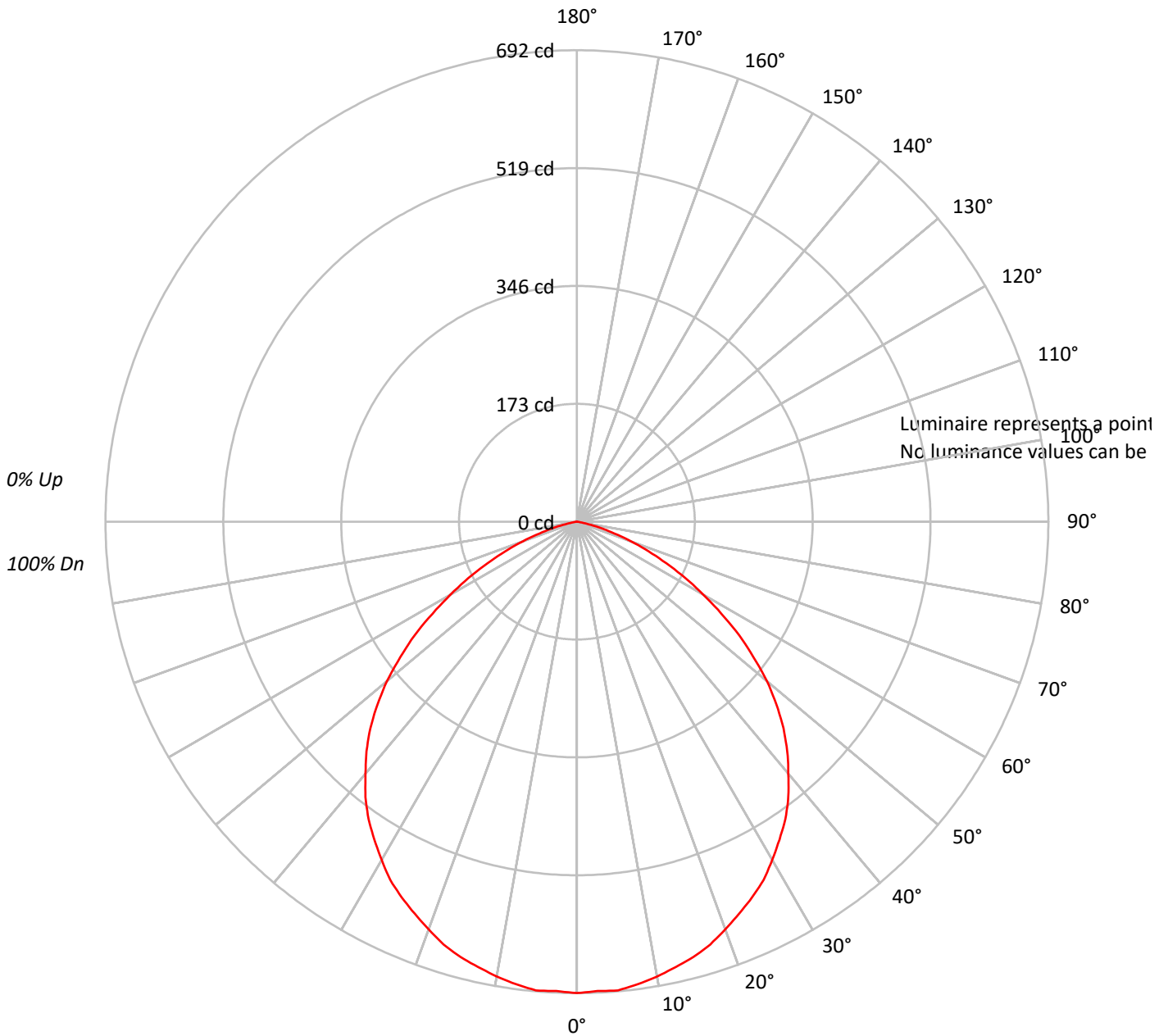
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75			
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65			
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56			
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35			
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	4.0
10°-20°	186.4	11.4
20°-30°	280.3	17.1
30°-40°	332.6	20.3
40°-50°	329.1	20.1
50°-60°	258.5	15.8
60°-70°	144.9	8.8
70°-80°	40.7	2.5
80°-90°	0.6	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°	532.2	32.5
0°-40°	864.7	52.8
0°-60°	1452.4	88.6
0°-90°	1638.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1638.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	692	
5°	691	65
15°	661	186
25°	608	280
35°	533	333
45°	429	329
55°	291	259
65°	144	145
75°	35	41
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	691.9
2.5°	689.6
5°	690.7
7.5°	684.9
10°	677.8
12.5°	669.6
15°	661.4
17.5°	650.8
20°	636.7
22.5°	622.6
25°	608.5
27.5°	593.2
30°	573.3
32.5°	553.3
35°	533.3
37.5°	509.8
40°	482.8
42.5°	457.0
45°	428.8
47.5°	397.1
50°	364.2
52.5°	326.6
55°	291.3
57.5°	251.4
60°	213.8
62.5°	179.7
65°	144.5
67.5°	113.9
70°	84.6
72.5°	57.6
75°	35.2
77.5°	17.6
80°	4.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)