

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: P211773

Luminaire Tested: **LE\_4B20D010 EC4B10208050 4LBN1WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211773  
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: LE\_4B20D010 EC4B10208050 4LBN1WH  
Description: PORTFOLIO 4 INCH CYLINDER  
NARROW DISTRIBUTION WITH WHEAT TRIM  
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W  
DL3-21.8 6W DLE-22.46W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1597.3 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

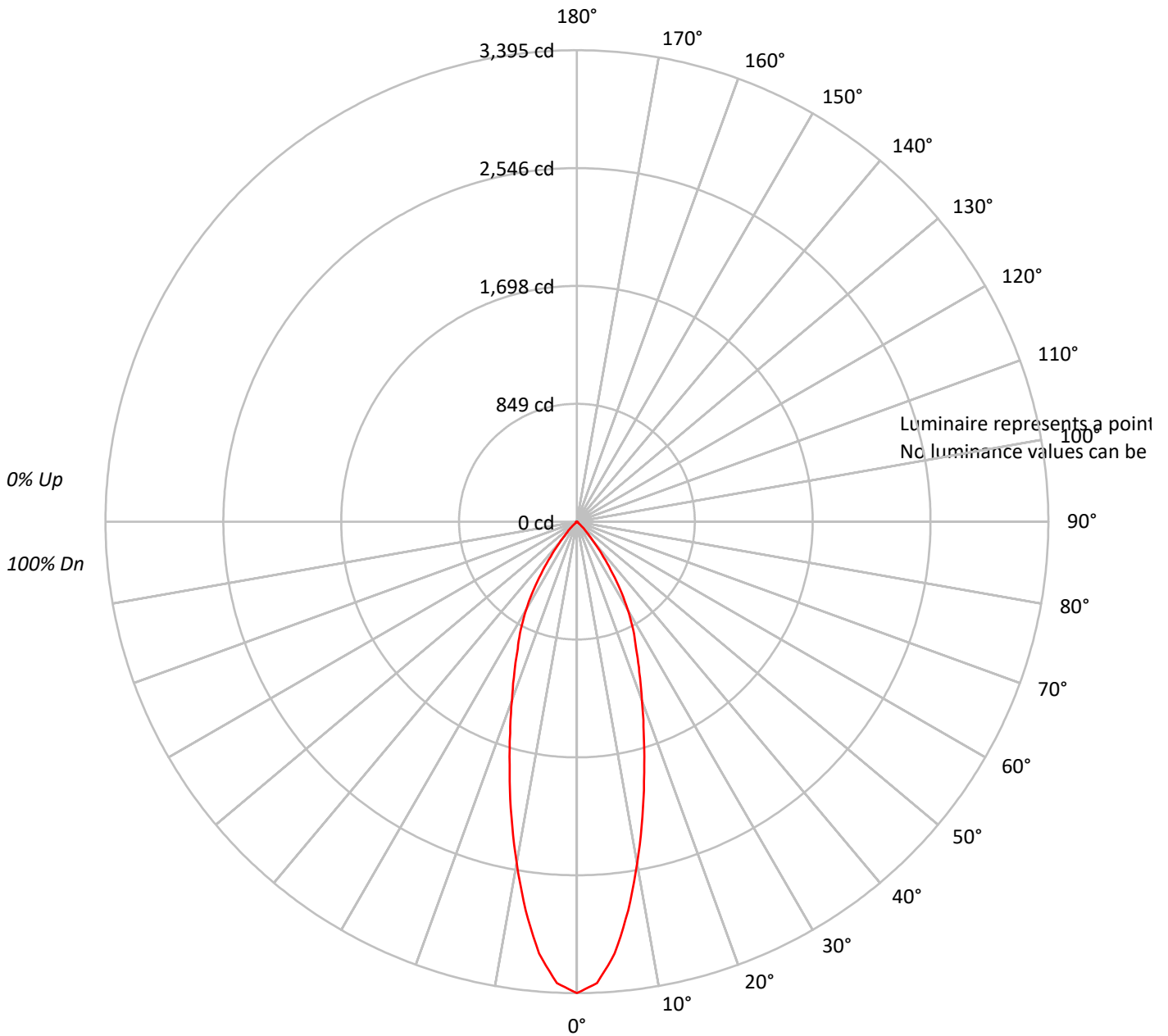
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89		
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84		
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79		
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75		
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71		
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67		
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64		
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61		
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58		

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.6	17.4
10°-20°	520.7	32.6
20°-30°	467.2	29.3
30°-40°	268.1	16.8
40°-50°	53.5	3.3
50°-60°	6.8	0.4
60°-70°	3.1	0.2
70°-80°	0.4	0.0
80°-90°	0.0	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°	1265.6	79.2
0°-40°	1533.6	96.0
0°-60°	1593.9	99.8
0°-90°	1597.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1597.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3395	
5°	3122	278
15°	1870	521
25°	1009	467
35°	425	268
45°	58	53
55°	8	7
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3394.7
2.5°	3325.7
5°	3121.7
7.5°	2823.9
10°	2498.4
12.5°	2178.6
15°	1869.7
17.5°	1599.4
20°	1367.8
22.5°	1174.7
25°	1009.3
27.5°	877.0
30°	730.8
32.5°	581.9
35°	424.7
37.5°	289.5
40°	179.2
42.5°	107.5
45°	57.9
47.5°	24.8
50°	11.0
52.5°	8.2
55°	8.2
57.5°	5.6
60°	5.6
62.5°	2.8
65°	2.8
67.5°	2.8
70°	2.8
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)