

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: P211398

Luminaire Tested: **LSR4B15D010BZ EC4B10208050 4LBSB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211398  
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: LSR4B15D010BZ EC4B10208050 4LBSB1  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH SPECULAR BLACK TRIM  
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W  
DL3-15.28W DLE-15.432W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1336.4 lumens  
Efficiency: N/A  
Efficacy: 93.5 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

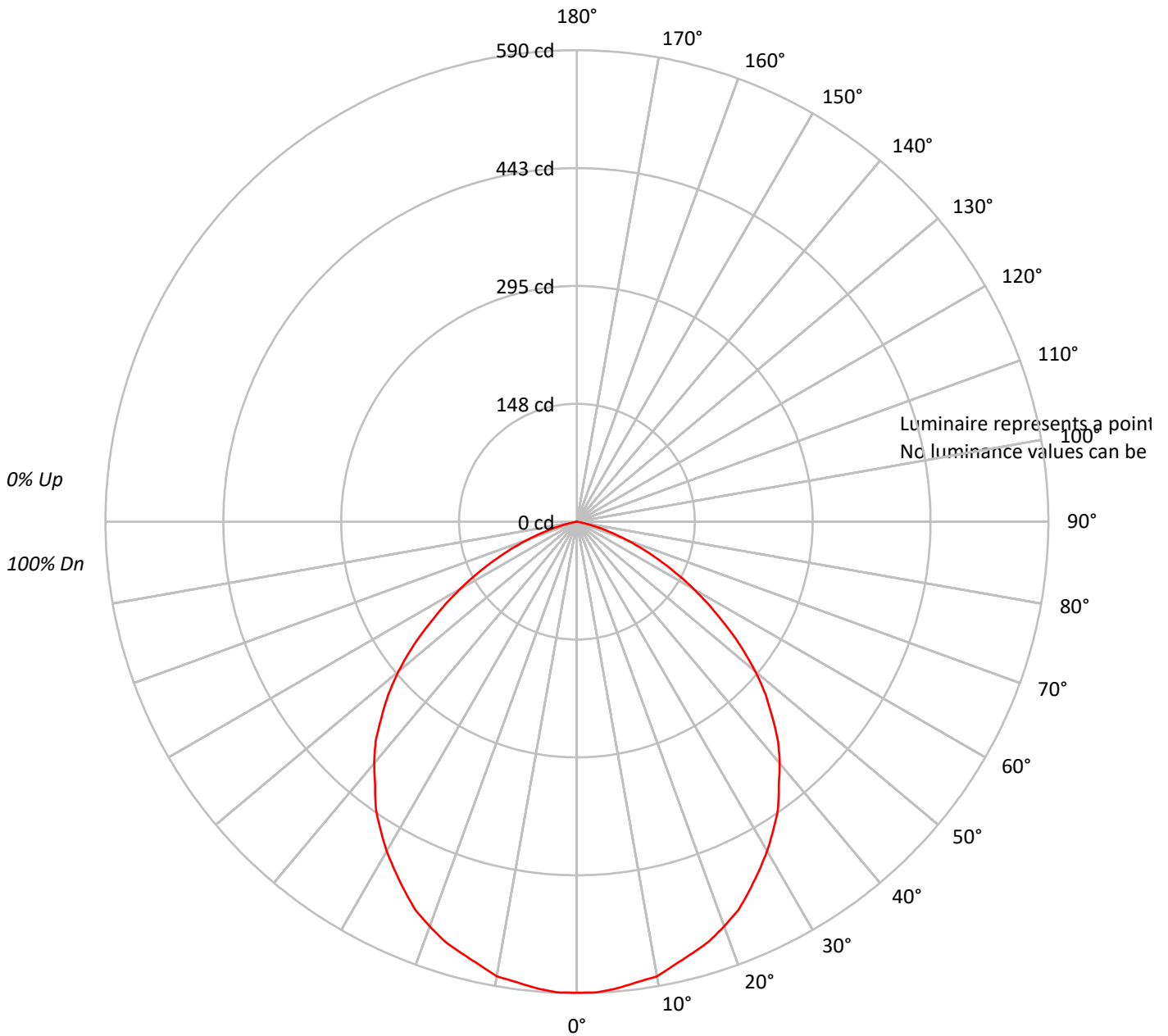
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88																			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76																			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65																			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57																			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50																			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44																			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29																			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	4.2
10°-20°	157.9	11.8
20°-30°	234.8	17.6
30°-40°	273.3	20.4
40°-50°	266.4	19.9
50°-60°	204.9	15.3
60°-70°	113.3	8.5
70°-80°	30.0	2.2
80°-90°	0.2	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°	448.4	33.5
0°-40°	721.6	54.0
0°-60°	1192.9	89.3
0°-90°	1336.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	590	
5°	586	56
15°	559	158
25°	510	235
35°	439	273
45°	346	266
55°	229	205
65°	114	113
75°	25	30
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	589.5
2.5°	589.5
5°	586.1
7.5°	581.1
10°	577.7
12.5°	567.5
15°	559.0
17.5°	550.6
20°	538.7
22.5°	526.8
25°	509.9
27.5°	493.0
30°	476.0
32.5°	457.4
35°	438.8
37.5°	415.0
40°	394.7
42.5°	372.7
45°	345.6
47.5°	320.2
50°	291.4
52.5°	260.9
55°	228.7
57.5°	198.2
60°	169.4
62.5°	140.6
65°	113.5
67.5°	88.1
70°	64.4
72.5°	44.0
75°	25.4
77.5°	11.9
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)