

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: P211282

Luminaire Tested: **LSR4B15D010BZ EC4B10208035 4LBSB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211282  
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 EC4B10208035 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: 1323.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

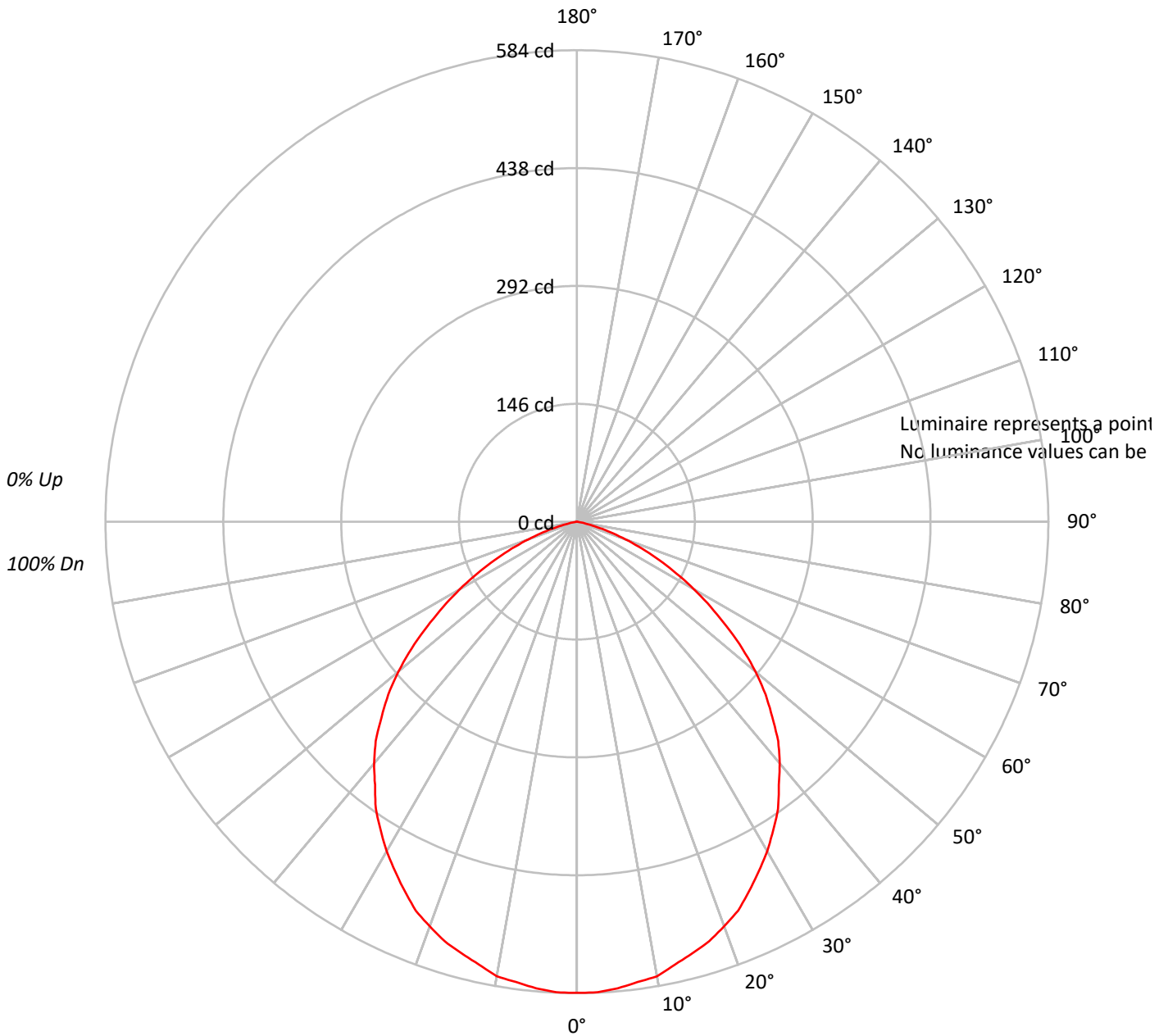
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	4.2
10°-20°	156.3	11.8
20°-30°	232.5	17.6
30°-40°	270.6	20.5
40°-50°	263.7	19.9
50°-60°	202.8	15.3
60°-70°	112.1	8.5
70°-80°	29.7	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°	443.9	33.5
0°-40°	714.4	54.0
0°-60°	1181.0	89.3
0°-90°	1323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1323.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	584	
5°	580	55
15°	553	156
25°	505	232
35°	434	271
45°	342	264
55°	226	203
65°	112	112
75°	25	30
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	583.6
2.5°	583.6
5°	580.3
7.5°	575.2
10°	571.9
12.5°	561.8
15°	553.4
17.5°	545.0
20°	533.3
22.5°	521.6
25°	504.8
27.5°	488.0
30°	471.3
32.5°	452.8
35°	434.4
37.5°	410.9
40°	390.8
42.5°	369.0
45°	342.1
47.5°	317.0
50°	288.5
52.5°	258.3
55°	226.4
57.5°	196.2
60°	167.7
62.5°	139.2
65°	112.4
67.5°	87.2
70°	63.7
72.5°	43.6
75°	25.2
77.5°	11.7
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)