

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: P210698

Luminaire Tested: **LSR4B10D010BZ EC4B10209024 4LBNI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P210698  
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: LSR4B10D010BZ EC4B10209024 4LBNI1  
Description: PORTFOLIO 4 INCH CYLINDER  
NARROW DISTRIBUTION WITH SPECULAR CLEAR TRIM  
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W  
DL3-11.1W DLE-11.39W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 571.0 lumens  
Efficiency: N/A  
Efficacy: 57.7 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

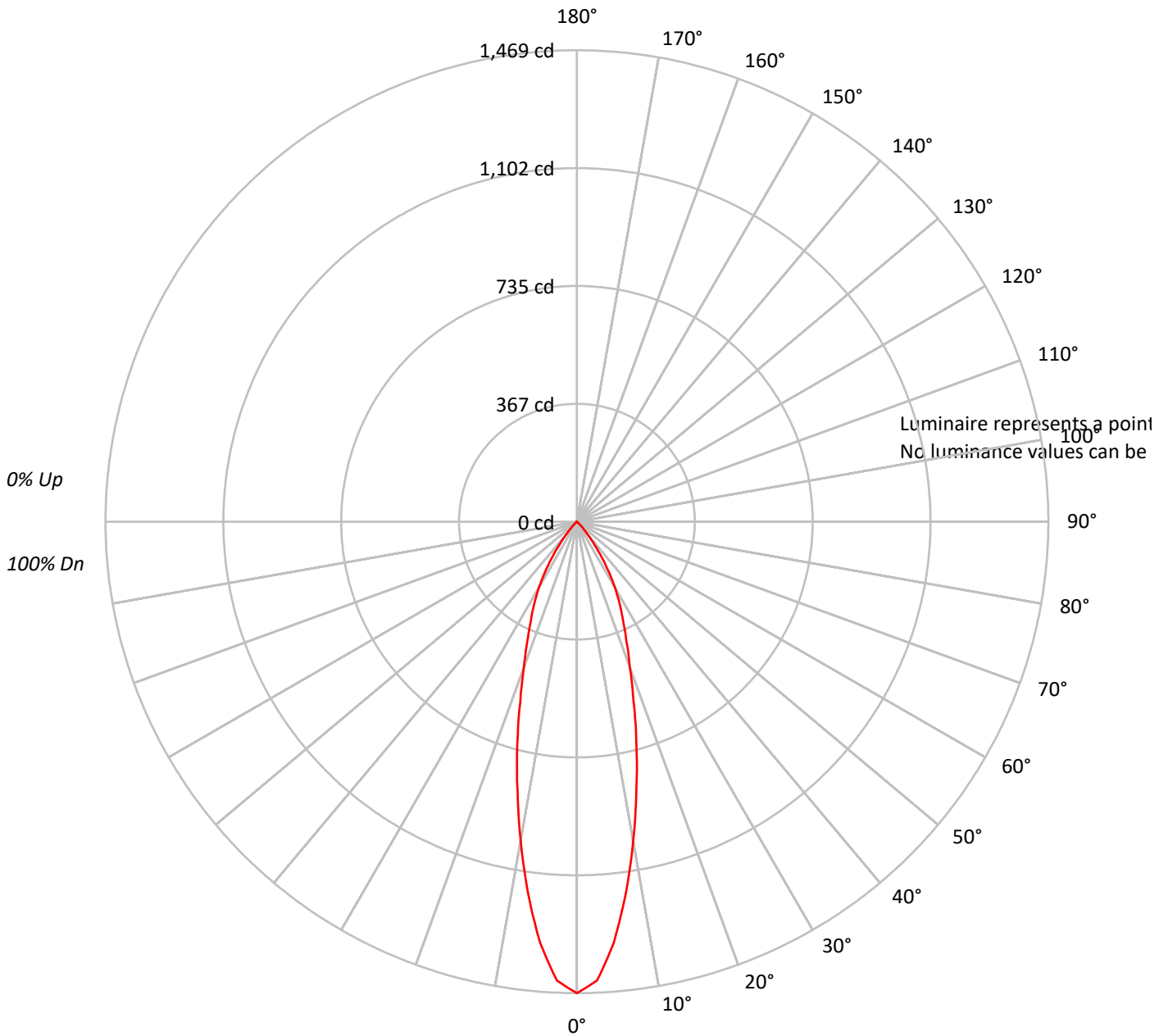
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	90	90	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	81
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	77	77	77
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	73	73	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69	69	69	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	66	66	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63	63	63	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61	61	61	61

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.8	20.3
10°-20°	198.2	34.7
20°-30°	157.5	27.6
30°-40°	83.4	14.6
40°-50°	14.4	2.5
50°-60°	1.1	0.2
60°-70°	0.6	0.1
70°-80°	0.0	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°	471.5	82.6
0°-40°	554.9	97.2
0°-60°	570.4	99.9
0°-90°	571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	571.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1469	
5°	1317	116
15°	717	198
25°	339	158
35°	132	83
45°	15	14
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1469.2
2.5°	1431.4
5°	1317.1
7.5°	1167.6
10°	1009.4
12.5°	856.4
15°	716.6
17.5°	586.5
20°	482.7
22.5°	403.6
25°	339.4
27.5°	287.5
30°	235.6
32.5°	182.9
35°	131.9
37.5°	87.0
40°	51.9
42.5°	29.9
45°	14.9
47.5°	5.3
50°	1.8
52.5°	1.8
55°	0.9
57.5°	0.9
60°	0.9
62.5°	0.9
65°	0.9
67.5°	0.0
70°	0.0
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)