

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: P212043

Luminaire Tested: **LSR4B30D010BZ EC4B30508035 4LBWB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212043  
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: LSR4B30D010BZ EC4B30508035 4LBWB1  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH SPECULAR BLACK TRIM  
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W  
DL3-29.67W DLE-29.73W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1461.9 lumens  
Efficiency: N/A  
Efficacy: 52.2 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

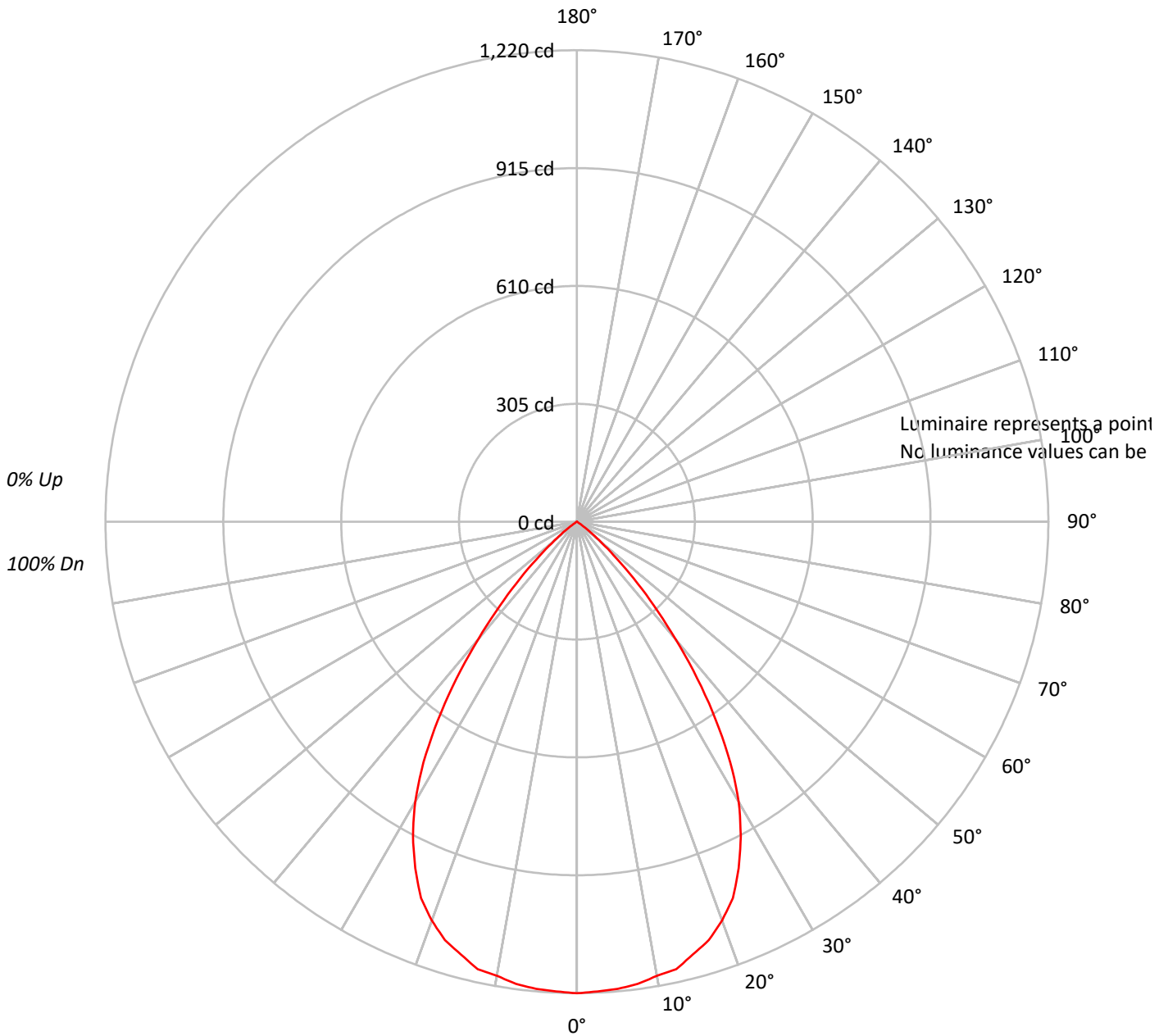
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																																				
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86																																				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79																																				
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72																																				
5	90	81	75	70	89	80	74	70	79	73	69	77	72	69	75	71	68	67																																				
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	70	66	63	62																																				
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57																																				
8	76	66	60	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																																				
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49																																				
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46																																				

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.2	7.9
10°-20°	326.5	22.3
20°-30°	451.2	30.9
30°-40°	386.4	26.4
40°-50°	164.2	11.2
50°-60°	18.4	1.3
60°-70°	0.0	0.0
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°	893.0	61.1
0°-40°	1279.3	87.5
0°-60°	1461.9	100.0
0°-90°	1461.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1220	
5°	1214	115
15°	1159	326
25°	990	451
35°	627	386
45°	207	164
55°	10	18
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1220.3
2.5°	1216.9
5°	1213.5
7.5°	1206.8
10°	1193.2
12.5°	1186.4
15°	1159.3
17.5°	1135.6
20°	1098.3
22.5°	1054.2
25°	989.8
27.5°	918.6
30°	837.3
32.5°	739.0
35°	627.1
37.5°	511.9
40°	396.6
42.5°	294.9
45°	206.8
47.5°	128.8
50°	74.6
52.5°	37.3
55°	10.2
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
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)