

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: P211939

Luminaire Tested: **LSR4B30D010BZ EC4B30508030 4LBMLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211939  
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 EC4B30508030 4LBML1  
Description: PORTFOLIO 4 INCH CYLINDER  
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR 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: 2737.3 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

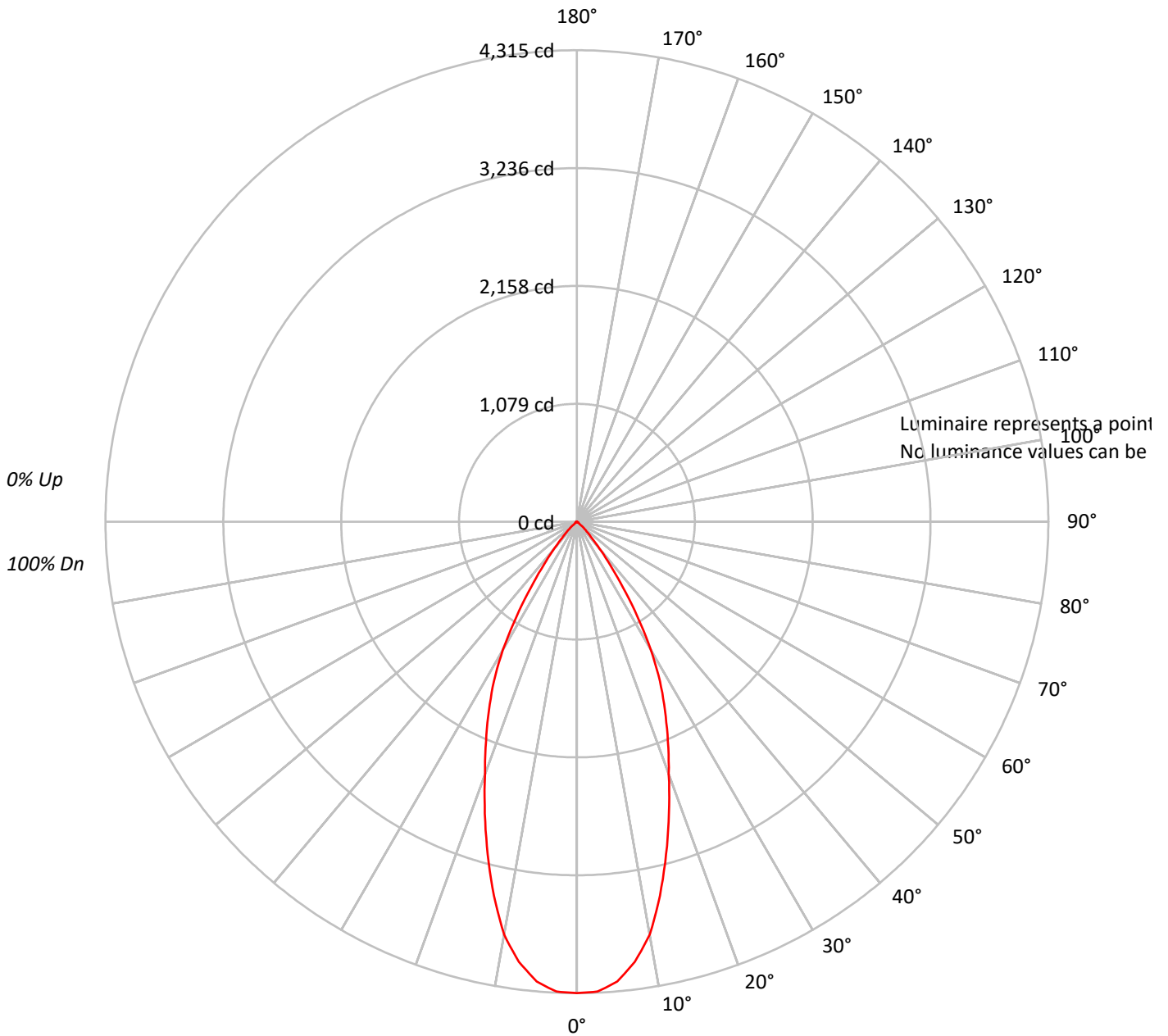
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																																				
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88																																				
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83																																				
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78																																				
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73																																				
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69																																				
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65																																				
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62																																				
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58																																				
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56																																				

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.7	14.3
10°-20°	873.5	31.9
20°-30°	868.5	31.7
30°-40°	472.9	17.3
40°-50°	109.3	4.0
50°-60°	15.4	0.6
60°-70°	5.7	0.2
70°-80°	1.3	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°	2132.7	77.9
0°-40°	2605.6	95.2
0°-60°	2730.3	99.7
0°-90°	2737.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4315	
5°	4226	391
15°	3153	874
25°	1904	868
35°	732	473
45°	126	109
55°	17	15
65°	7	6
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4315.3
2.5°	4305.3
5°	4225.9
7.5°	4063.6
10°	3838.4
12.5°	3507.2
15°	3152.8
17.5°	2801.8
20°	2457.4
22.5°	2175.9
25°	1904.3
27.5°	1646.0
30°	1354.5
32.5°	1030.0
35°	731.9
37.5°	493.5
40°	321.2
42.5°	202.0
45°	125.8
47.5°	72.9
50°	36.4
52.5°	19.9
55°	16.6
57.5°	9.9
60°	9.9
62.5°	6.6
65°	6.6
67.5°	3.3
70°	3.3
72.5°	3.3
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)