

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: P212095

Luminaire Tested: **LE\_4B30D010 EC4B30508040 4LBS1GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212095  
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: LE\_4B30D010 EC4B30508040 4LBS1GPH  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 3159.5 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

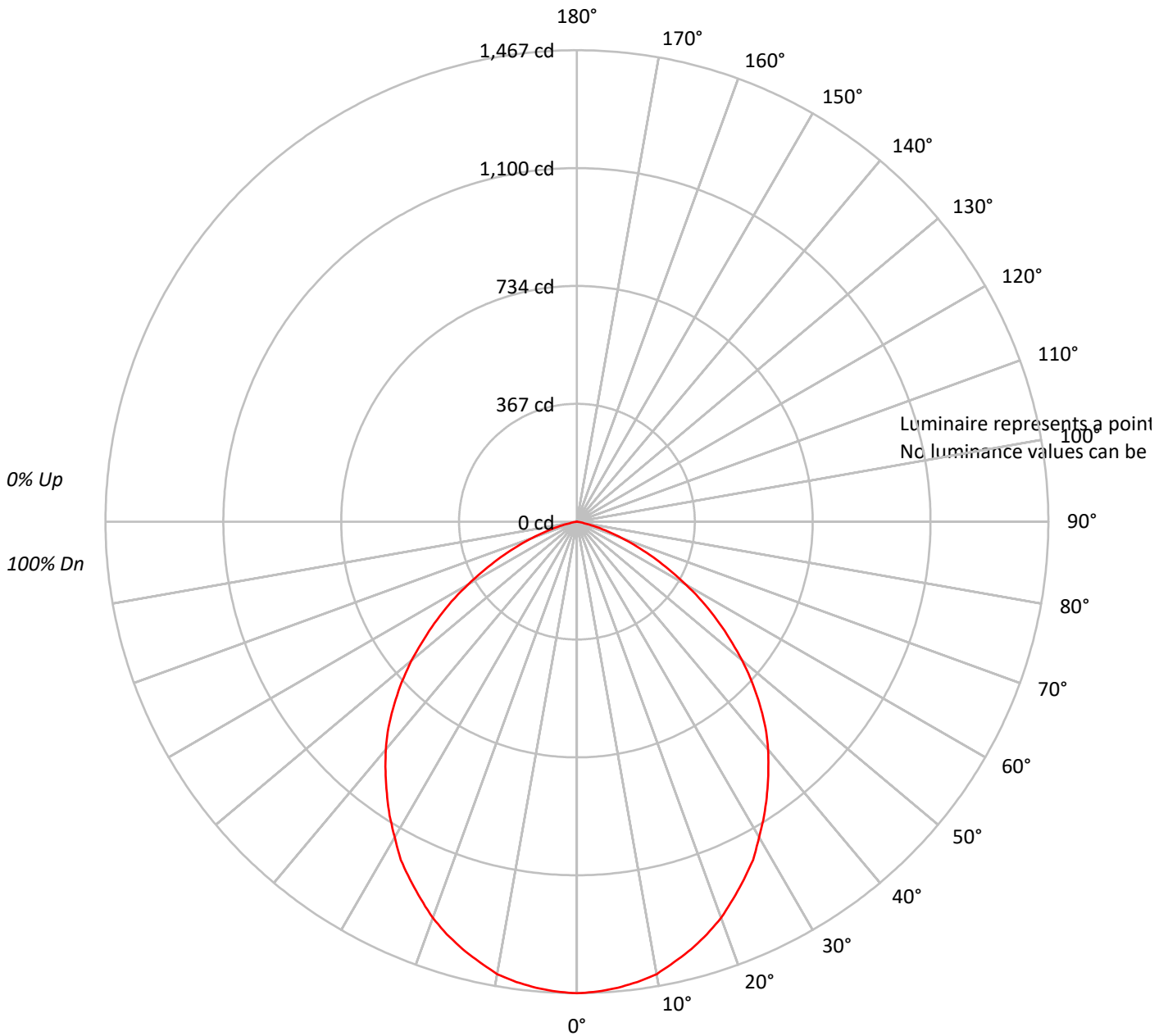
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	102	99	101	98	96	97	95	93	93	91	90	88			
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57			
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50			
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32			
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	4.4
10°-20°	387.8	12.3
20°-30°	565.7	17.9
30°-40°	645.1	20.4
40°-50°	618.8	19.6
50°-60°	473.9	15.0
60°-70°	260.0	8.2
70°-80°	69.2	2.2
80°-90°	1.0	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°	1091.6	34.6
0°-40°	1736.7	55.0
0°-60°	2829.3	89.5
0°-90°	3159.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3159.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1467	
5°	1456	138
15°	1376	388
25°	1229	566
35°	1031	645
45°	804	619
55°	531	474
65°	262	260
75°	61	69
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1467.4
2.5°	1463.7
5°	1456.0
7.5°	1444.7
10°	1429.5
12.5°	1403.0
15°	1376.5
17.5°	1346.1
20°	1312.0
22.5°	1270.3
25°	1228.6
27.5°	1186.8
30°	1133.8
32.5°	1084.5
35°	1031.4
37.5°	978.3
40°	925.2
42.5°	868.4
45°	803.9
47.5°	739.4
50°	671.2
52.5°	599.1
55°	530.8
57.5°	462.6
60°	390.6
62.5°	322.2
65°	261.6
67.5°	200.9
70°	147.9
72.5°	98.6
75°	60.7
77.5°	26.6
80°	7.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)