

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: P212066

Luminaire Tested: **LE\_4B30D010 EC4B30509035 4LBS1GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212066  
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 EC4B30509035 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: 2642.3 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

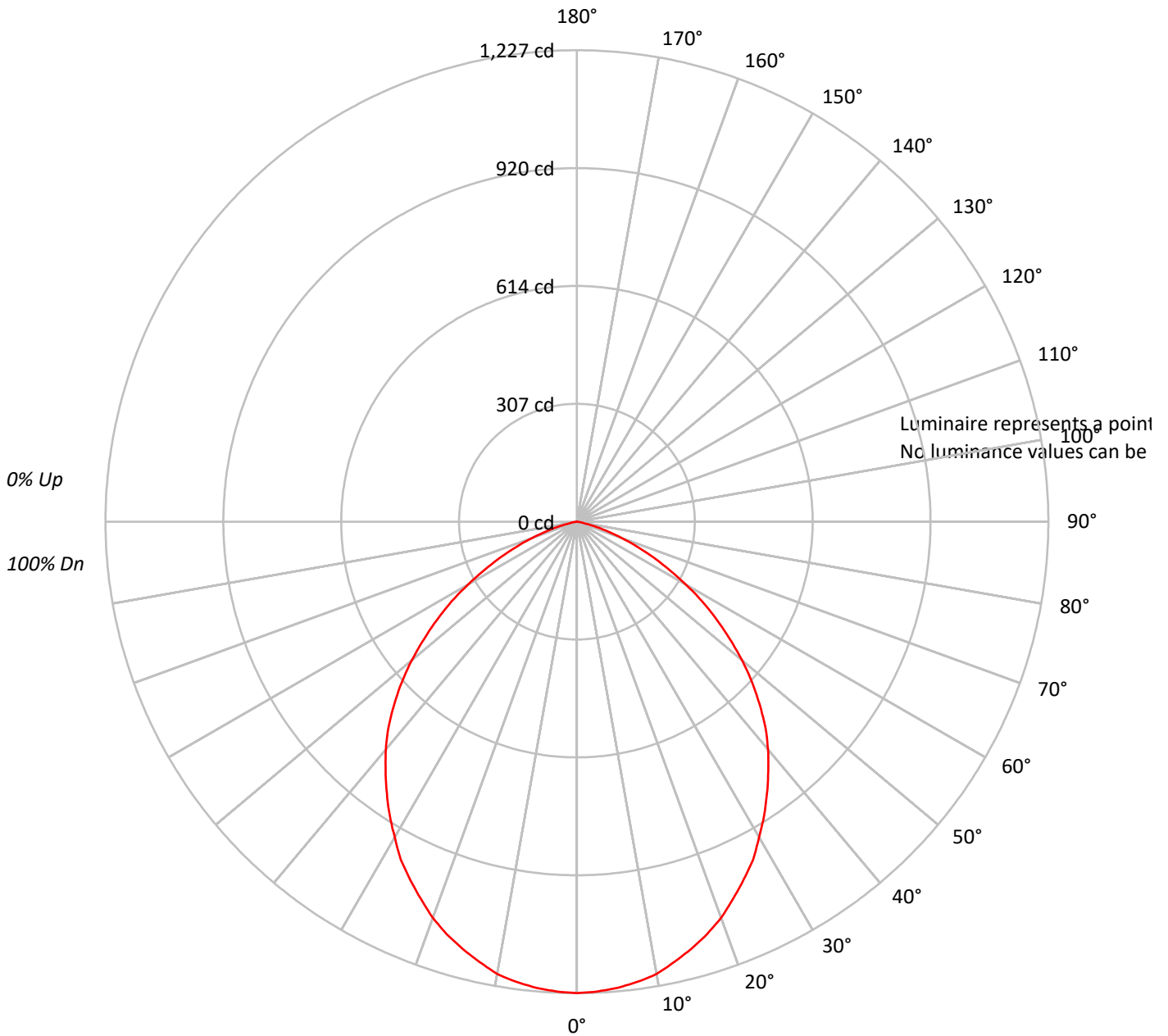
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212066

CATALOG NUMBER: LE\_4B30D010 EC4B30509035 4LBS1GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P212066

CATALOG NUMBER: LE\_4B30D010 EC4B30509035 4LBS1GPH

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

RF	20									20									20									20									
RC	80									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):**





TEST NUMBER: P212066

CATALOG NUMBER: LE\_4B30D010 EC4B30509035 4LBS1GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	4.4
10°-20°	324.3	12.3
20°-30°	473.0	17.9
30°-40°	539.4	20.4
40°-50°	517.5	19.6
50°-60°	396.3	15.0
60°-70°	217.5	8.2
70°-80°	57.8	2.2
80°-90°	0.9	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°	912.9	34.5
0°-40°	1452.3	55.0
0°-60°	2366.1	89.5
0°-90°	2642.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2642.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1227	
5°	1218	116
15°	1151	324
25°	1027	473
35°	863	539
45°	672	517
55°	444	396
65°	219	218
75°	51	58
85°	0	1
90°	0	



TEST NUMBER: P212066

CATALOG NUMBER: LE\_4B30D010 EC4B30509035 4LBS1GPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1227.2
2.5°	1224.0
5°	1217.7
7.5°	1208.1
10°	1195.5
12.5°	1173.3
15°	1151.1
17.5°	1125.8
20°	1097.1
22.5°	1062.3
25°	1027.4
27.5°	992.5
30°	948.2
32.5°	906.9
35°	862.6
37.5°	818.1
40°	773.7
42.5°	726.2
45°	672.2
47.5°	618.4
50°	561.3
52.5°	501.0
55°	443.9
57.5°	386.9
60°	326.7
62.5°	269.6
65°	218.8
67.5°	168.1
70°	123.7
72.5°	82.5
75°	50.7
77.5°	22.2
80°	6.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)