

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: P211887

Luminaire Tested: **LE_4B30D010 EC4B30509027 4LBN1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211887
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 EC4B30509027 4LBN1LI
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 2046.7 lumens
Efficiency: N/A
Efficacy: 73.1 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

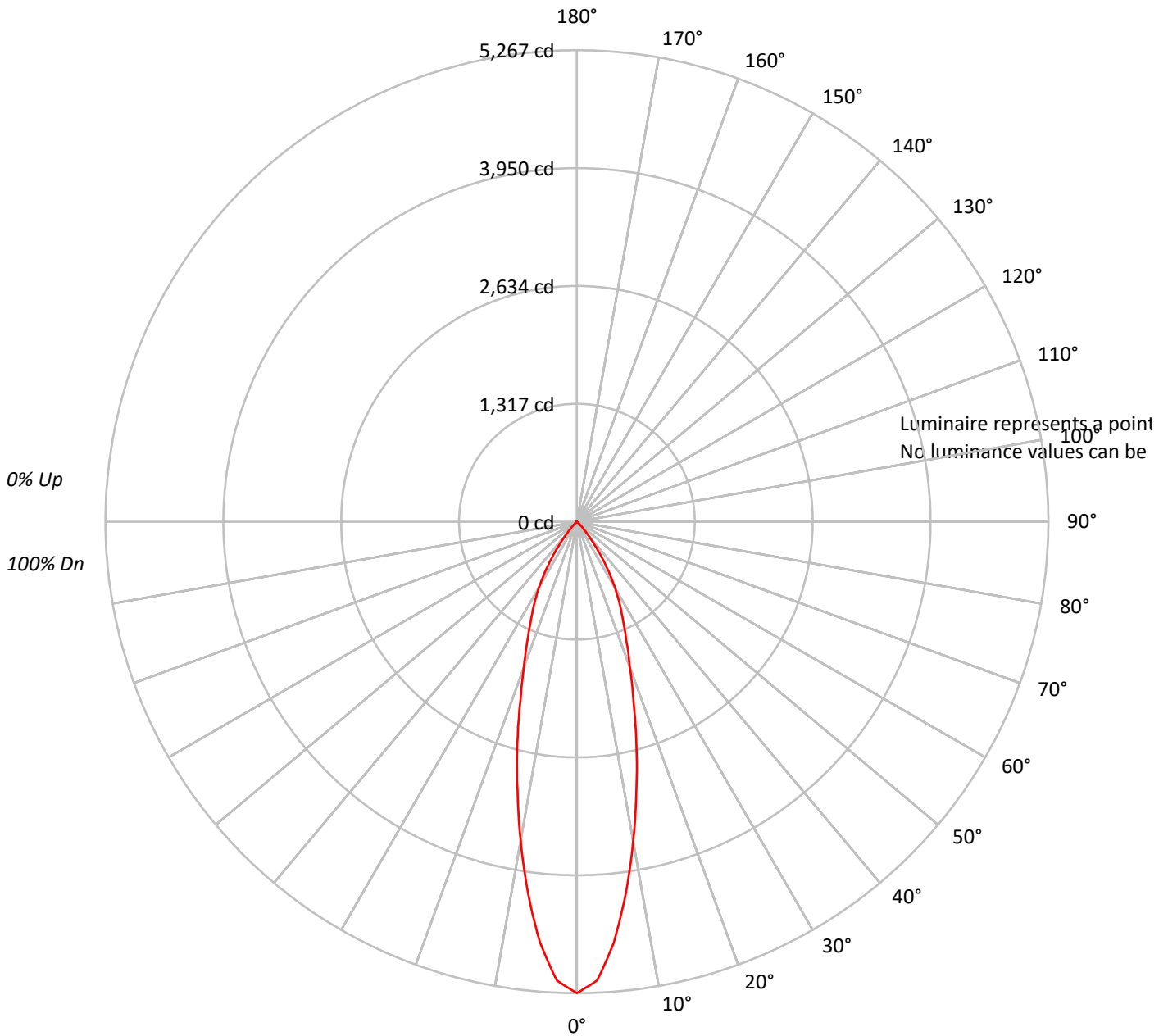
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211887

CATALOG NUMBER: LE_4B30D010 EC4B30509027 4LBN1LI

Luminous Intensity Polar Plot





TEST NUMBER: P211887

CATALOG NUMBER: LE_4B30D010 EC4B30509027 4LBN1LI

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

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211887

CATALOG NUMBER: LE_4B30D010 EC4B30509027 4LBN1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.1	20.3
10°-20°	710.6	34.7
20°-30°	564.8	27.6
30°-40°	298.9	14.6
40°-50°	51.5	2.5
50°-60°	3.8	0.2
60°-70°	1.9	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°	1690.5	82.6
0°-40°	1989.5	97.2
0°-60°	2044.8	99.9
0°-90°	2046.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2046.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5267	
5°	4722	415
15°	2569	711
25°	1217	565
35°	473	299
45°	54	52
55°	3	4
65°	3	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P211887

CATALOG NUMBER: LE_4B30D010 EC4B30509027 4LBN1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	5267.2
2.5°	5131.7
5°	4721.9
7.5°	4186.1
10°	3618.6
12.5°	3070.2
15°	2569.1
17.5°	2102.5
20°	1730.5
22.5°	1446.9
25°	1216.7
27.5°	1030.8
30°	844.8
32.5°	655.6
35°	472.8
37.5°	312.0
40°	185.9
42.5°	107.2
45°	53.6
47.5°	18.9
50°	6.3
52.5°	6.3
55°	3.1
57.5°	3.1
60°	3.1
62.5°	3.1
65°	3.1
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)