

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: P212147

Luminaire Tested: **LE_4B30D010 EC4B30508050 4LBN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212147
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 EC4B30508050 4LBN1H
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SEMI-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: 2190.1 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

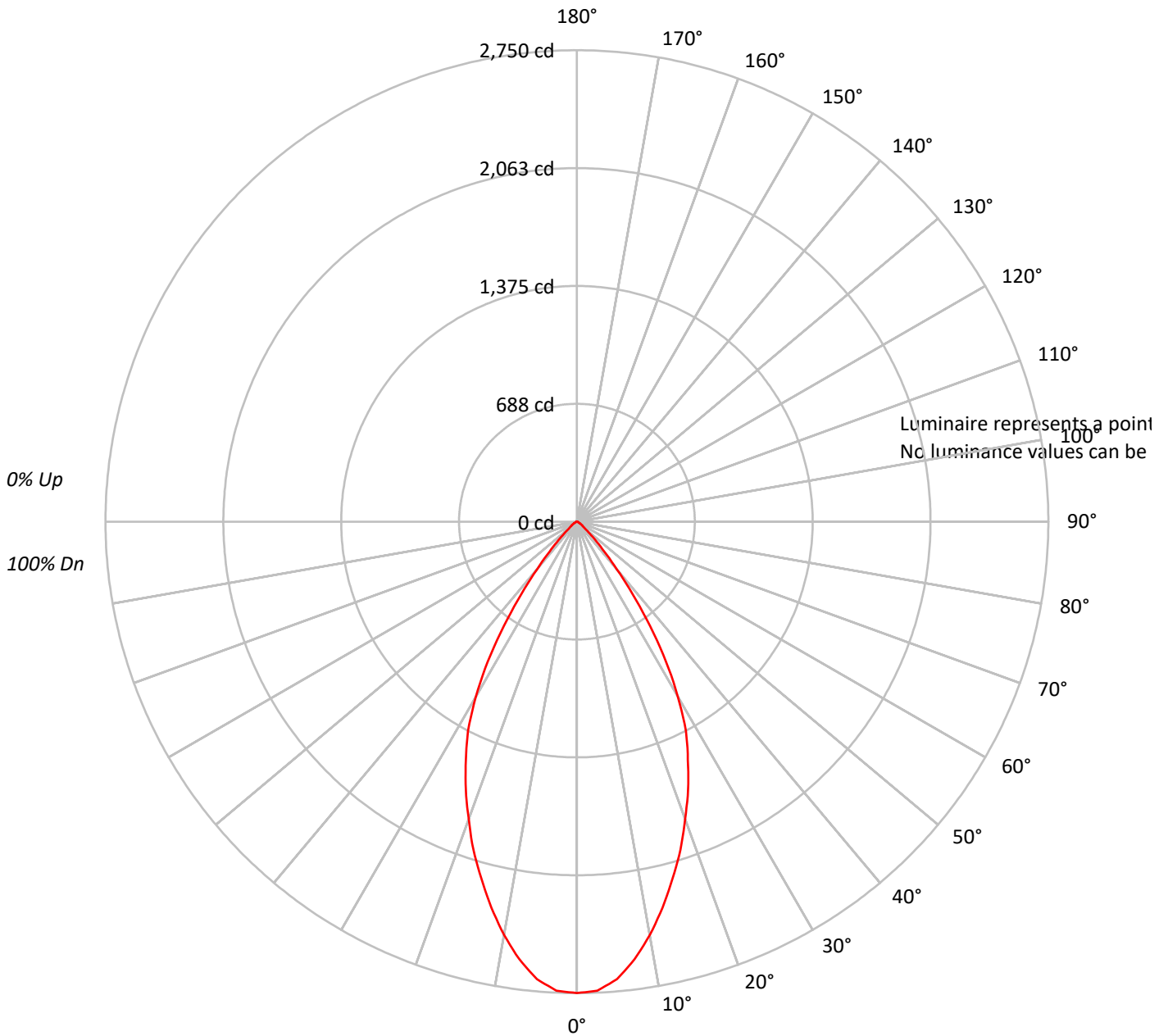
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212147

CATALOG NUMBER: LE_4B30D010 EC4B30508050 4LBN1H

Luminous Intensity Polar Plot





TEST NUMBER: P212147

CATALOG NUMBER: LE_4B30D010 EC4B30508050 4LBN1H

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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70																			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54																			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P212147

CATALOG NUMBER: LE_4B30D010 EC4B30508050 4LBN1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.1	11.3
10°-20°	601.8	27.5
20°-30°	698.7	31.9
30°-40°	462.7	21.1
40°-50°	129.8	5.9
50°-60°	32.6	1.5
60°-70°	12.2	0.6
70°-80°	4.1	0.2
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°	1548.6	70.7
0°-40°	2011.4	91.8
0°-60°	2173.7	99.3
0°-90°	2190.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2750	
5°	2678	248
15°	2155	602
25°	1532	699
35°	742	463
45°	151	130
55°	36	33
65°	12	12
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P212147

CATALOG NUMBER: LE_4B30D010 EC4B30508050 4LBN1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	2749.8
2.5°	2737.9
5°	2678.4
7.5°	2575.2
10°	2448.3
12.5°	2305.4
15°	2154.6
17.5°	2007.8
20°	1845.1
22.5°	1694.3
25°	1531.7
27.5°	1376.9
30°	1178.4
32.5°	968.3
35°	742.1
37.5°	531.7
40°	361.1
42.5°	234.1
45°	150.8
47.5°	91.3
50°	59.5
52.5°	43.6
55°	35.7
57.5°	27.7
60°	19.8
62.5°	15.9
65°	11.9
67.5°	7.9
70°	7.9
72.5°	3.9
75°	3.9
77.5°	3.9
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)