

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: P211922

Luminaire Tested: **LE_4B30D010 EC4B30509727 4LBS1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211922
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 EC4B30509727 4LBS1H
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW 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: 3325.5 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

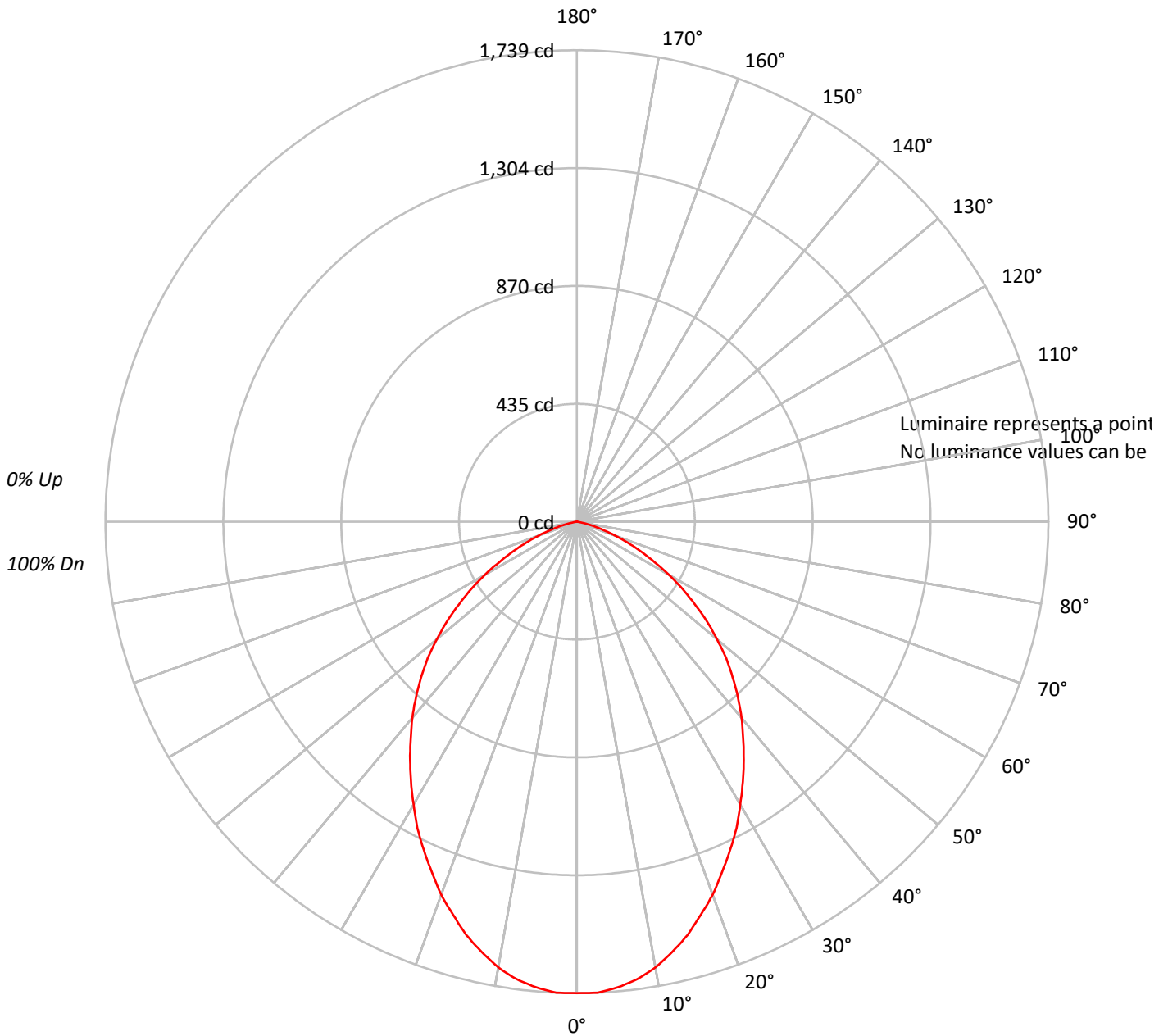
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211922

CATALOG NUMBER: LE_4B30D010 EC4B30509727 4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P211922

CATALOG NUMBER: LE_4B30D010 EC4B30509727 4LBS1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77				77
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67				67
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51				51
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46				46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41				41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34				34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31				31

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211922

CATALOG NUMBER: LE_4B30D010 EC4B30509727 4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	4.9
10°-20°	442.8	13.3
20°-30°	614.9	18.5
30°-40°	671.1	20.2
40°-50°	626.0	18.8
50°-60°	475.1	14.3
60°-70°	260.2	7.8
70°-80°	71.6	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°	1220.6	36.7
0°-40°	1891.7	56.9
0°-60°	2992.8	90.0
0°-90°	3325.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3325.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1739	
5°	1725	163
15°	1578	443
25°	1336	615
35°	1073	671
45°	813	626
55°	531	475
65°	260	260
75°	62	72
85°	0	1
90°	0	



TEST NUMBER: P211922

CATALOG NUMBER: LE_4B30D010 EC4B30509727 4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	1739.3
2.5°	1739.3
5°	1724.6
7.5°	1702.6
10°	1669.7
12.5°	1625.7
15°	1578.2
17.5°	1519.6
20°	1464.6
22.5°	1398.7
25°	1336.4
27.5°	1274.3
30°	1204.7
32.5°	1138.8
35°	1072.9
37.5°	1007.0
40°	944.7
42.5°	878.8
45°	812.9
47.5°	746.9
50°	673.7
52.5°	604.1
55°	530.9
57.5°	461.3
60°	391.8
62.5°	322.2
65°	260.0
67.5°	201.4
70°	150.1
72.5°	102.5
75°	62.3
77.5°	29.3
80°	7.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)