

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: P211934

Luminaire Tested: **LE_4B30D010 EC4B30508030 4LBCS1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211934
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 EC4B30508030 4LBCS1MMS
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK 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: 2984.5 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

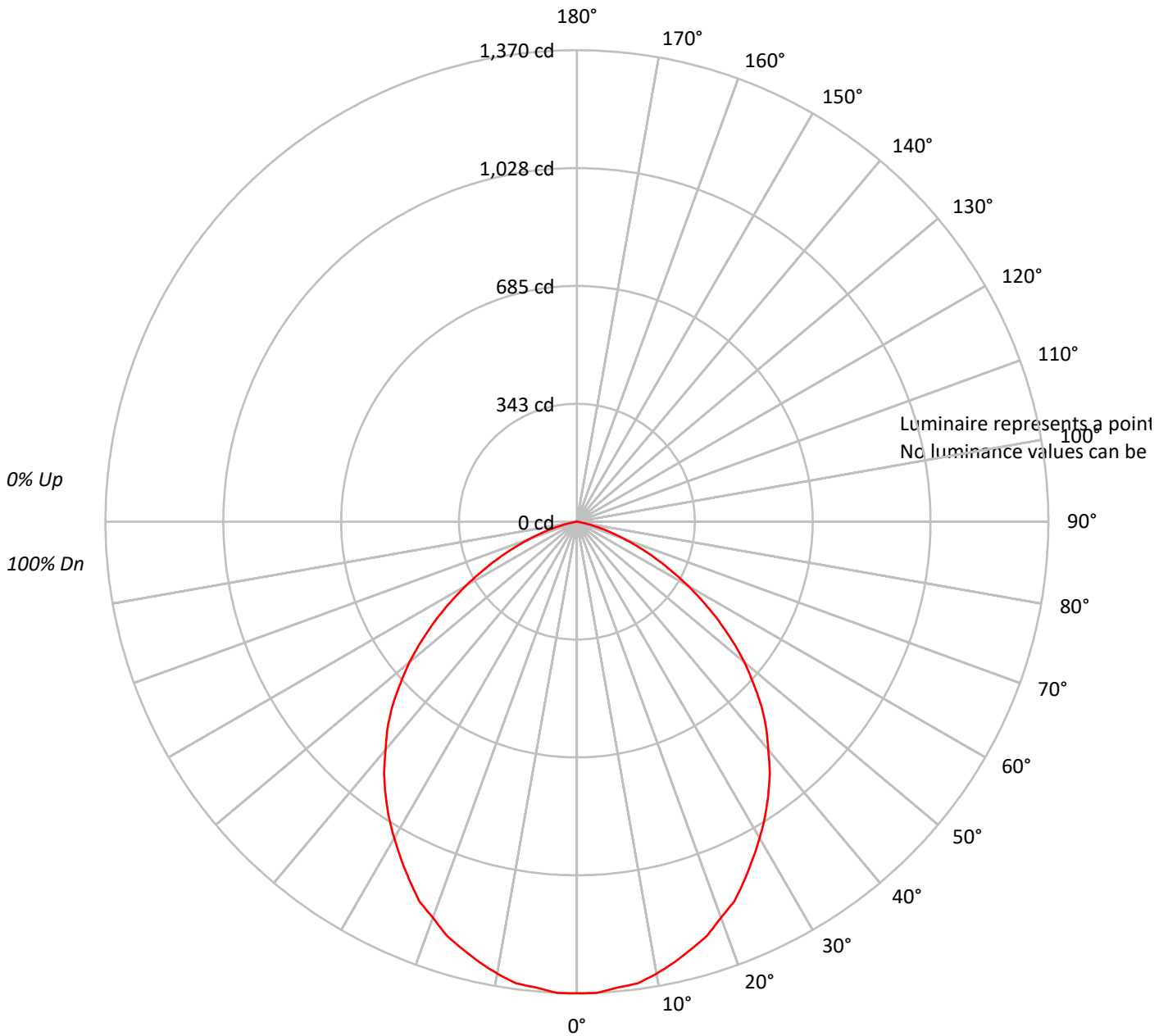
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211934

CATALOG NUMBER: LE_4B30D010 EC4B30508030 4LBCS1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P211934

CATALOG NUMBER: LE_4B30D010 EC4B30508030 4LBCS1MMS

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			100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76			76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65			65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57			57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50			50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40			40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36			36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32			32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29			29

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211934

CATALOG NUMBER: LE_4B30D010 EC4B30508030 4LBCS1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	4.3
10°-20°	362.4	12.1
20°-30°	529.4	17.7
30°-40°	605.5	20.3
40°-50°	581.9	19.5
50°-60°	449.3	15.1
60°-70°	250.8	8.4
70°-80°	73.0	2.4
80°-90°	3.2	0.1
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°	1020.9	34.2
0°-40°	1626.4	54.5
0°-60°	2657.6	89.0
0°-90°	2984.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2984.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1370	
5°	1359	129
15°	1286	362
25°	1150	529
35°	969	605
45°	759	582
55°	504	449
65°	251	251
75°	64	73
85°	2	3
90°	0	



TEST NUMBER: P211934

CATALOG NUMBER: LE_4B30D010 EC4B30508030 4LBCS1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	1370.5
2.5°	1370.5
5°	1358.9
7.5°	1353.1
10°	1333.9
12.5°	1310.7
15°	1285.6
17.5°	1260.6
20°	1223.8
22.5°	1194.9
25°	1150.5
27.5°	1106.1
30°	1061.7
32.5°	1017.3
35°	969.1
37.5°	920.8
40°	864.8
42.5°	814.7
45°	758.6
47.5°	695.0
50°	635.1
52.5°	569.4
55°	503.8
57.5°	436.3
60°	372.6
62.5°	308.9
65°	250.9
67.5°	196.9
70°	146.7
72.5°	102.3
75°	63.7
77.5°	32.8
80°	11.6
82.5°	3.8
85°	2.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)