

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: P211862

Luminaire Tested: **LE_4B30D010 EC4B30508027 4LBS1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211862
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 EC4B30508027 4LBS1B
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR 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

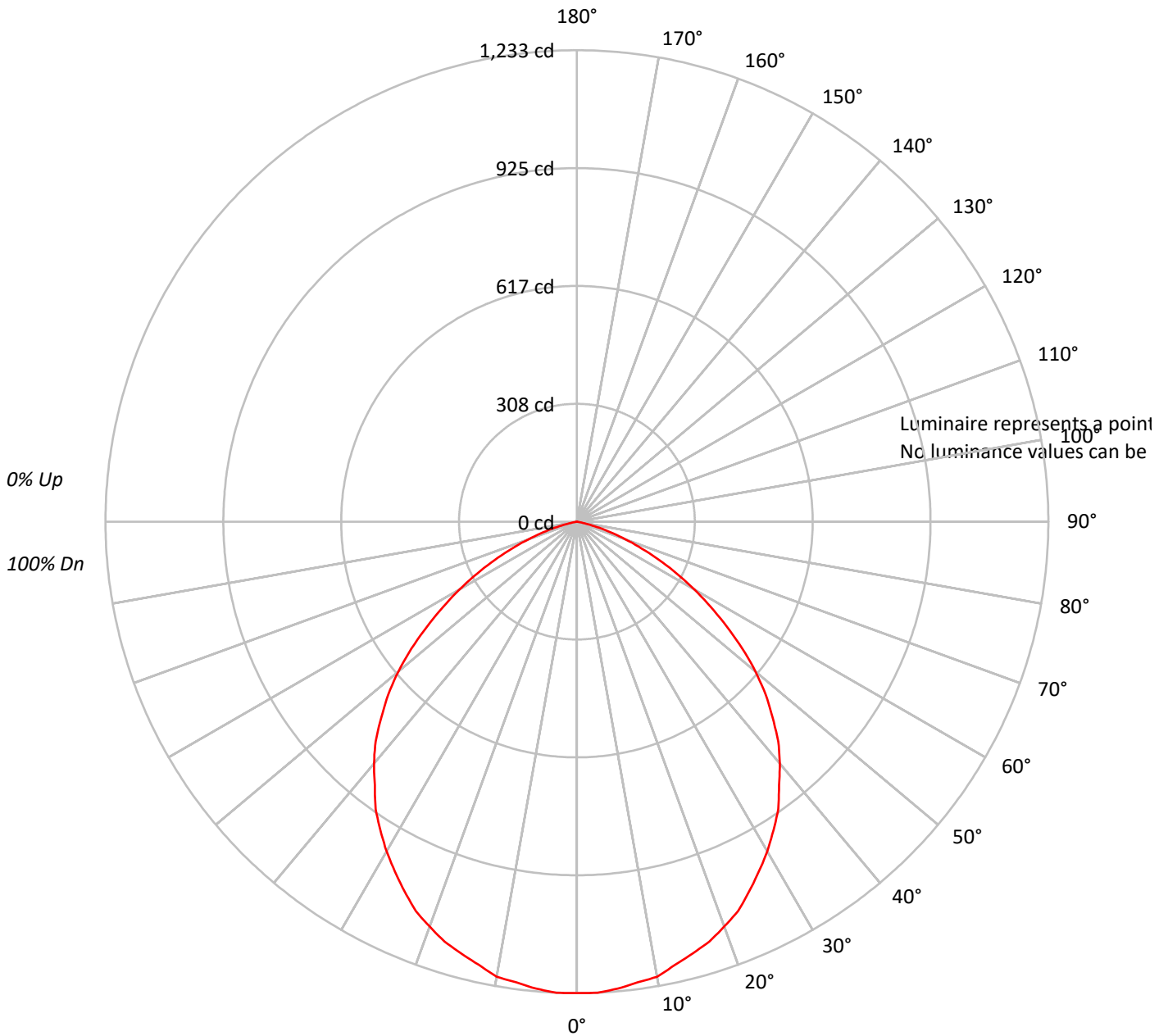
Lumens per Lamp: N/A
Luminaire Lumens: 2795.4 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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: P211862
CATALOG NUMBER: LE_4B30D010 EC4B30508027 4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P211862

CATALOG NUMBER: LE_4B30D010 EC4B30508027 4LBS1B

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	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211862

CATALOG NUMBER: LE_4B30D010 EC4B30508027 4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	4.2
10°-20°	330.2	11.8
20°-30°	491.2	17.6
30°-40°	571.6	20.4
40°-50°	557.2	19.9
50°-60°	428.6	15.3
60°-70°	236.9	8.5
70°-80°	62.7	2.2
80°-90°	0.5	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°	937.8	33.5
0°-40°	1509.5	54.0
0°-60°	2495.2	89.3
0°-90°	2795.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2795.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1233	
5°	1226	116
15°	1169	330
25°	1067	491
35°	918	572
45°	723	557
55°	478	429
65°	238	237
75°	53	63
85°	0	0
90°	0	



TEST NUMBER: P211862

CATALOG NUMBER: LE_4B30D010 EC4B30508027 4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1233.1
2.5°	1233.1
5°	1226.0
7.5°	1215.4
10°	1208.4
12.5°	1187.0
15°	1169.3
17.5°	1151.6
20°	1126.8
22.5°	1102.0
25°	1066.6
27.5°	1031.1
30°	995.7
32.5°	956.8
35°	917.8
37.5°	868.1
40°	825.6
42.5°	779.5
45°	722.9
47.5°	669.7
50°	609.5
52.5°	545.7
55°	478.4
57.5°	414.6
60°	354.4
62.5°	294.1
65°	237.5
67.5°	184.2
70°	134.7
72.5°	92.1
75°	53.1
77.5°	24.8
80°	3.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)