

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: P212049

Luminaire Tested: **LE_4B30D010 EC4B30509035 4LBCSM1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212049
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 EC4B30509035 4LBCSM1B
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 2865.2 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

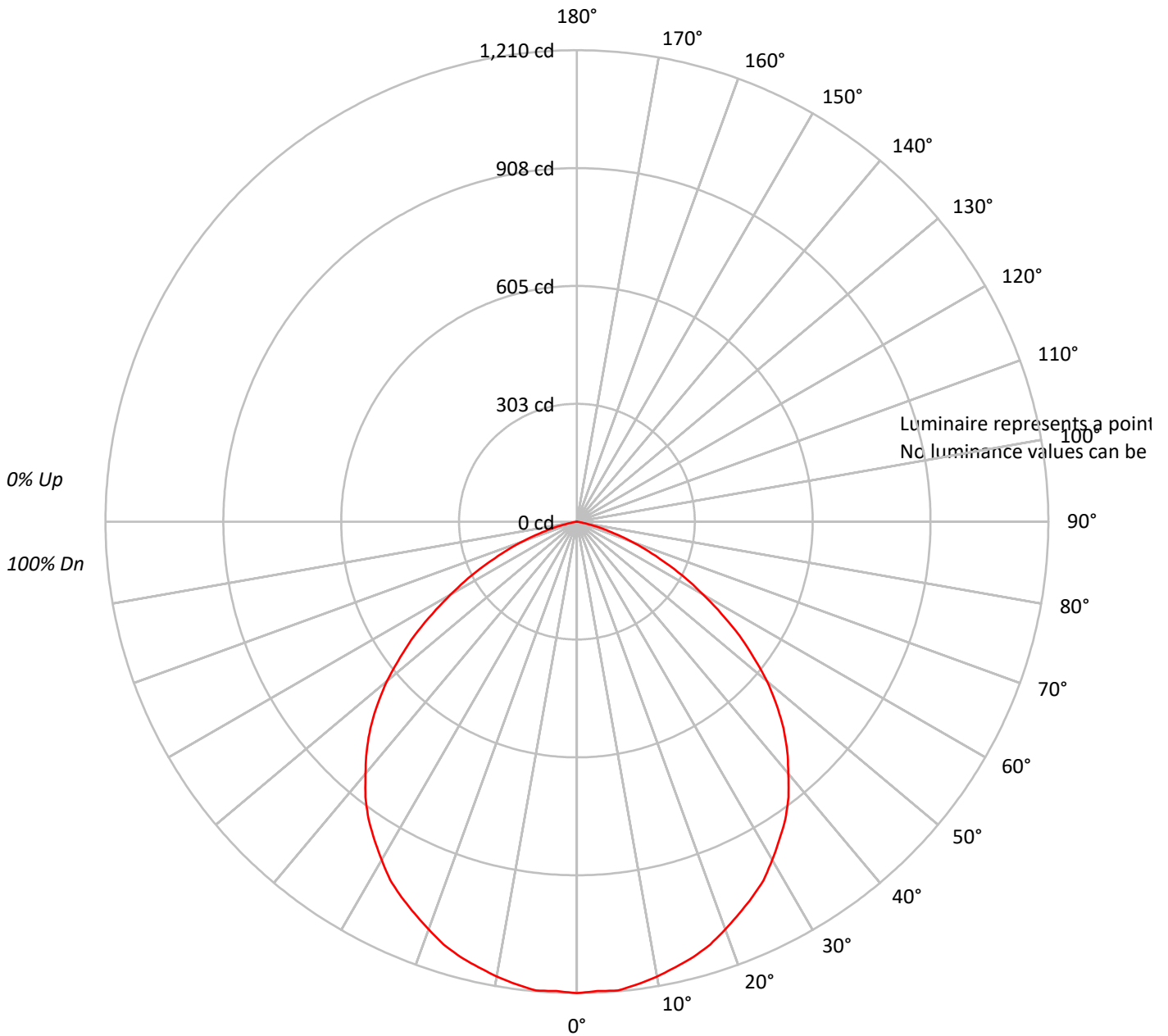
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212049

CATALOG NUMBER: LE_4B30D010 EC4B30509035 4LBCSM1B

Luminous Intensity Polar Plot





TEST NUMBER: P212049

CATALOG NUMBER: LE_4B30D010 EC4B30509035 4LBCSM1B

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	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88				88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65				65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56				56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39				39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35				35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31				31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P212049

CATALOG NUMBER: LE_4B30D010 EC4B30509035 4LBCSM1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	4.0
10°-20°	326.0	11.4
20°-30°	490.1	17.1
30°-40°	581.5	20.3
40°-50°	575.4	20.1
50°-60°	452.0	15.8
60°-70°	253.4	8.8
70°-80°	71.2	2.5
80°-90°	1.1	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°	930.5	32.5
0°-40°	1512.0	52.8
0°-60°	2539.5	88.6
0°-90°	2865.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2865.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1210	
5°	1208	114
15°	1156	326
25°	1064	490
35°	932	581
45°	750	575
55°	509	452
65°	253	253
75°	62	71
85°	0	1
90°	0	



TEST NUMBER: P212049

CATALOG NUMBER: LE_4B30D010 EC4B30509035 4LBCSM1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1209.9
2.5°	1205.7
5°	1207.8
7.5°	1197.6
10°	1185.2
12.5°	1170.8
15°	1156.4
17.5°	1138.0
20°	1113.3
22.5°	1088.7
25°	1064.1
27.5°	1037.3
30°	1002.4
32.5°	967.4
35°	932.5
37.5°	891.5
40°	844.2
42.5°	799.0
45°	749.7
47.5°	694.3
50°	636.7
52.5°	571.1
55°	509.4
57.5°	439.5
60°	373.9
62.5°	314.2
65°	252.6
67.5°	199.3
70°	147.9
72.5°	100.7
75°	61.6
77.5°	30.9
80°	8.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)