

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: P210831

Luminaire Tested: **LE_4B10D010 EC4B10209030 4LBCSM1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210831
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_4B10D010 EC4B10209030 4LBCSM1B
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1039.4 lumens
Efficiency: N/A
Efficacy: 105.0 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

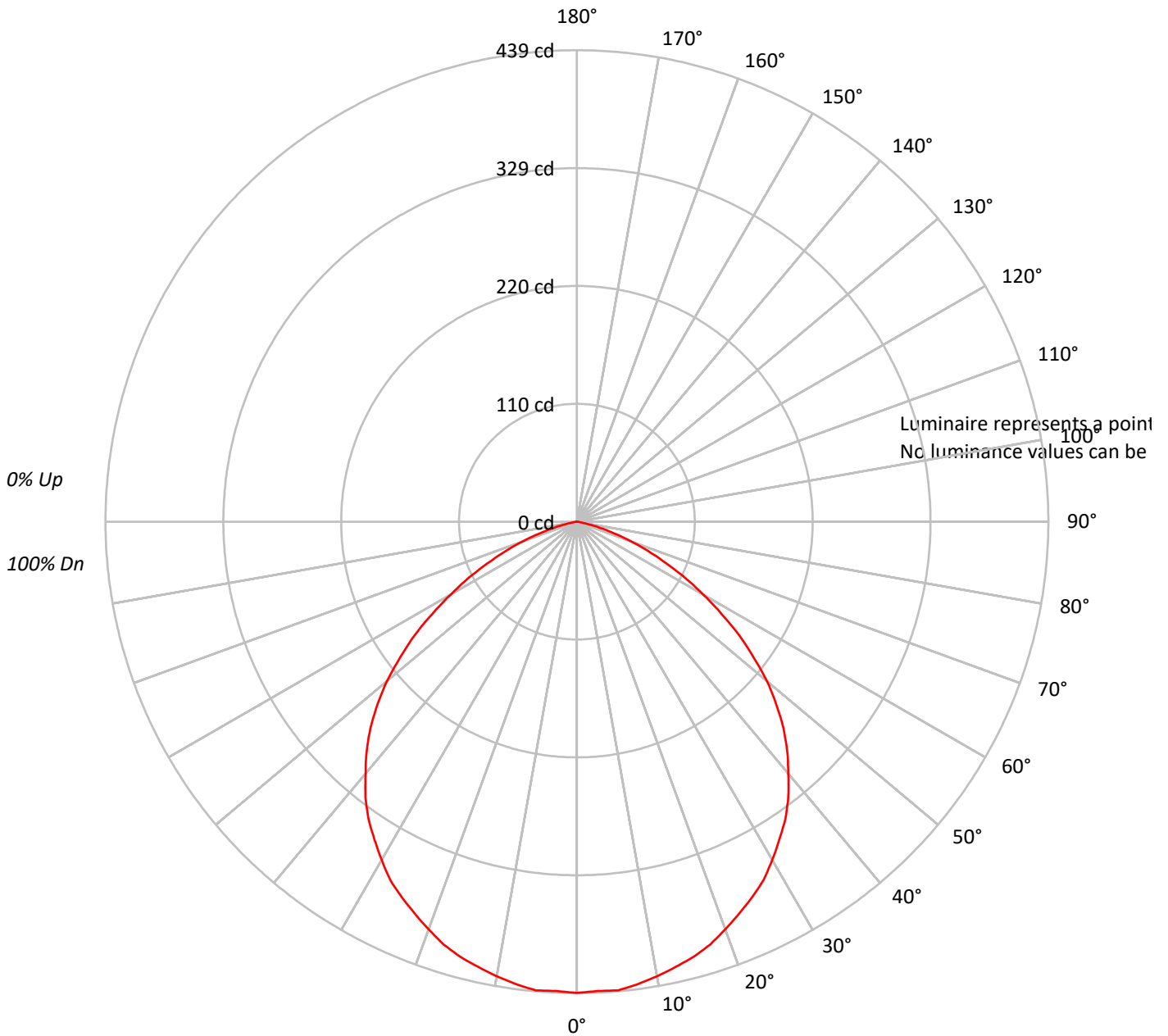
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210831

CATALOG NUMBER: LE_4B10D010 EC4B10209030 4LBCSM1B

Luminous Intensity Polar Plot





TEST NUMBER: P210831

CATALOG NUMBER: LE_4B10D010 EC4B10209030 4LBCSM1B

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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65																			
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39																			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35																			
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210831

CATALOG NUMBER: LE_4B10D010 EC4B10209030 4LBCSM1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	4.0
10°-20°	118.3	11.4
20°-30°	177.8	17.1
30°-40°	210.9	20.3
40°-50°	208.7	20.1
50°-60°	164.0	15.8
60°-70°	91.9	8.8
70°-80°	25.8	2.5
80°-90°	0.4	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°	337.6	32.5
0°-40°	548.5	52.8
0°-60°	921.2	88.6
0°-90°	1039.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	439	
5°	438	42
15°	420	118
25°	386	178
35°	338	211
45°	272	209
55°	185	164
65°	92	92
75°	22	26
85°	0	0
90°	0	



TEST NUMBER: P210831

CATALOG NUMBER: LE_4B10D010 EC4B10209030 4LBCSM1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	438.8
2.5°	437.4
5°	438.1
7.5°	434.4
10°	429.9
12.5°	424.7
15°	419.5
17.5°	412.8
20°	403.9
22.5°	394.9
25°	385.9
27.5°	376.3
30°	363.7
32.5°	350.9
35°	338.3
37.5°	323.4
40°	306.2
42.5°	289.9
45°	272.0
47.5°	251.8
50°	231.0
52.5°	207.2
55°	184.8
57.5°	159.5
60°	135.6
62.5°	114.0
65°	91.6
67.5°	72.3
70°	53.6
72.5°	36.5
75°	22.4
77.5°	11.1
80°	3.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)