

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: P211585

Luminaire Tested: **LE_4B20D010 EC4B10209030 4LBCSM1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211585
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_4B20D010 EC4B10209030 4LBCSM1B
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1960.6 lumens
Efficiency: N/A
Efficacy: 94.3 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

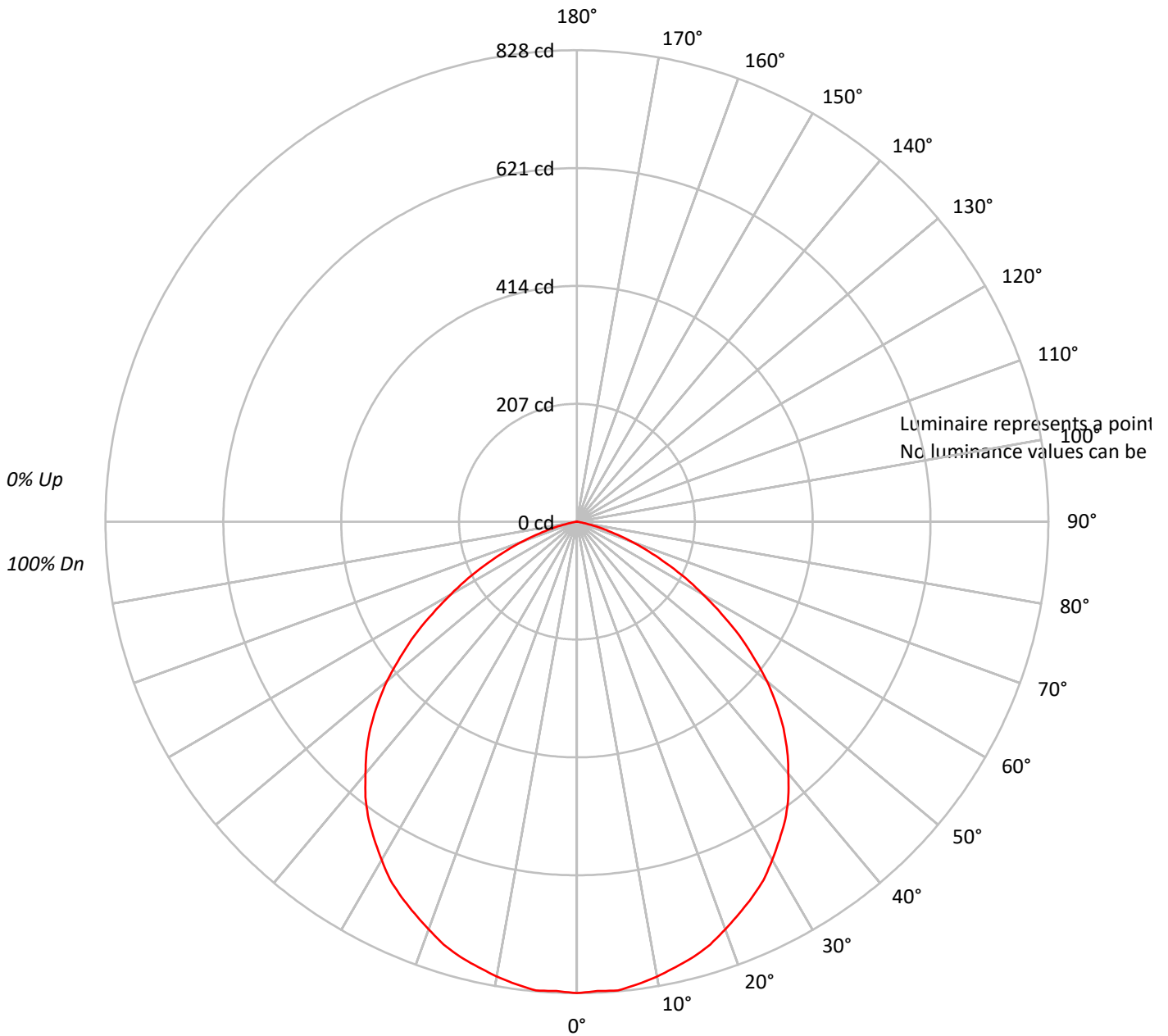
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211585

CATALOG NUMBER: LE_4B20D010 EC4B10209030 4LBCSM1B

Luminous Intensity Polar Plot





TEST NUMBER: P211585

CATALOG NUMBER: LE_4B20D010 EC4B10209030 4LBCSM1B

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	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: P211585

CATALOG NUMBER: LE_4B20D010 EC4B10209030 4LBCSM1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	4.0
10°-20°	223.1	11.4
20°-30°	335.4	17.1
30°-40°	397.9	20.3
40°-50°	393.8	20.1
50°-60°	309.3	15.8
60°-70°	173.4	8.8
70°-80°	48.7	2.5
80°-90°	0.8	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°	636.8	32.5
0°-40°	1034.7	52.8
0°-60°	1737.8	88.6
0°-90°	1960.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	828	
5°	826	78
15°	791	223
25°	728	335
35°	638	398
45°	513	394
55°	349	309
65°	173	173
75°	42	49
85°	0	1
90°	0	



TEST NUMBER: P211585

CATALOG NUMBER: LE_4B20D010 EC4B10209030 4LBCSM1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	827.9
2.5°	825.1
5°	826.5
7.5°	819.4
10°	811.1
12.5°	801.2
15°	791.4
17.5°	778.7
20°	761.8
22.5°	745.0
25°	728.1
27.5°	709.8
30°	685.9
32.5°	662.0
35°	638.1
37.5°	610.0
40°	577.7
42.5°	546.8
45°	513.1
47.5°	475.1
50°	435.7
52.5°	390.8
55°	348.6
57.5°	300.8
60°	255.8
62.5°	215.1
65°	172.8
67.5°	136.3
70°	101.2
72.5°	68.9
75°	42.2
77.5°	21.1
80°	5.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)