

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: P210771

Luminaire Tested: **LE_4B10D010 EC4B10209027 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35172)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LE_4B10D010 EC4B10209027 4LBW1MW
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH MATTE WHITE 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: 894.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

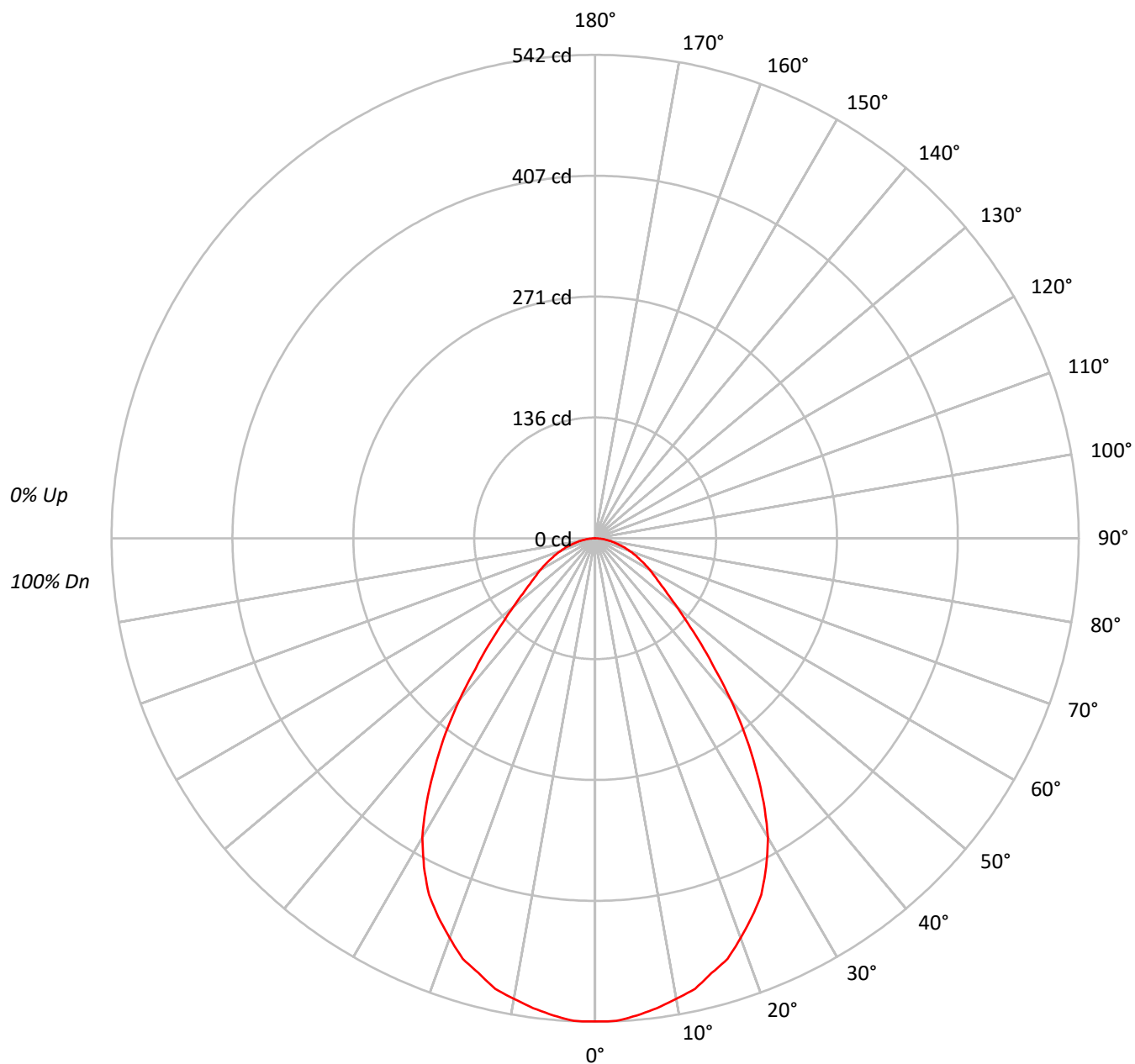
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210771

CATALOG NUMBER: LE_4B10D010 EC4B10209027 4LBW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P210771

CATALOG NUMBER: LE_4B10D010 EC4B10209027 4LBW1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	94	89	85	91	87	83		88	84	81		85
3	96	87	80	75	93	85	79	74	83	77	73		80	76	72		78
4	89	79	72	66	87	78	71	66	75	69	65		73	68	64		71
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		60
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	59	48	41	37	47	41	37		46	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59187
5°	58908
10°	58169
15°	57078
20°	55439
25°	53141
30°	48876
35°	41775
40°	33746
45°	25990
50°	20313
55°	17011
60°	15471
65°	14090
70°	12970
75°	11736
80°	10193
85°	8775



TEST NUMBER: P210771

CATALOG NUMBER: LE_4B10D010 EC4B10209027 4LBW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	5.7
10°-20°	142.2	15.9
20°-30°	201.0	22.5
30°-40°	194.7	21.8
40°-50°	131.4	14.7
50°-60°	81.6	9.1
60°-70°	54.5	6.1
70°-80°	29.8	3.3
80°-90°	7.9	0.9
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°	394.1	44.1
0°-40°	588.8	65.9
0°-60°	801.8	89.7
0°-90°	894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	542	
5°	537	51
15°	505	142
25°	441	201
35°	313	195
45°	168	131
55°	89	82
65°	54	55
75°	28	30
85°	7	8
90°	0	



TEST NUMBER: P210771

CATALOG NUMBER: LE_4B10D010 EC4B10209027 4LBW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	541.7
2.5°	541.7
5°	537.1
7.5°	531.3
10°	524.3
12.5°	517.4
15°	504.6
17.5°	494.2
20°	476.8
22.5°	459.4
25°	440.8
27.5°	415.3
30°	387.4
32.5°	351.5
35°	313.2
37.5°	274.9
40°	236.6
42.5°	198.4
45°	168.2
47.5°	140.4
50°	119.5
52.5°	102.1
55°	89.3
57.5°	78.9
60°	70.8
62.5°	62.6
65°	54.5
67.5°	47.6
70°	40.6
72.5°	34.8
75°	27.8
77.5°	22.0
80°	16.2
82.5°	11.6
85°	7.0
87.5°	2.3
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)