

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: P211003

Luminaire Tested: **LE_4B10D010 EC4B10209040 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211003
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 EC4B10209040 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: 943.7 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

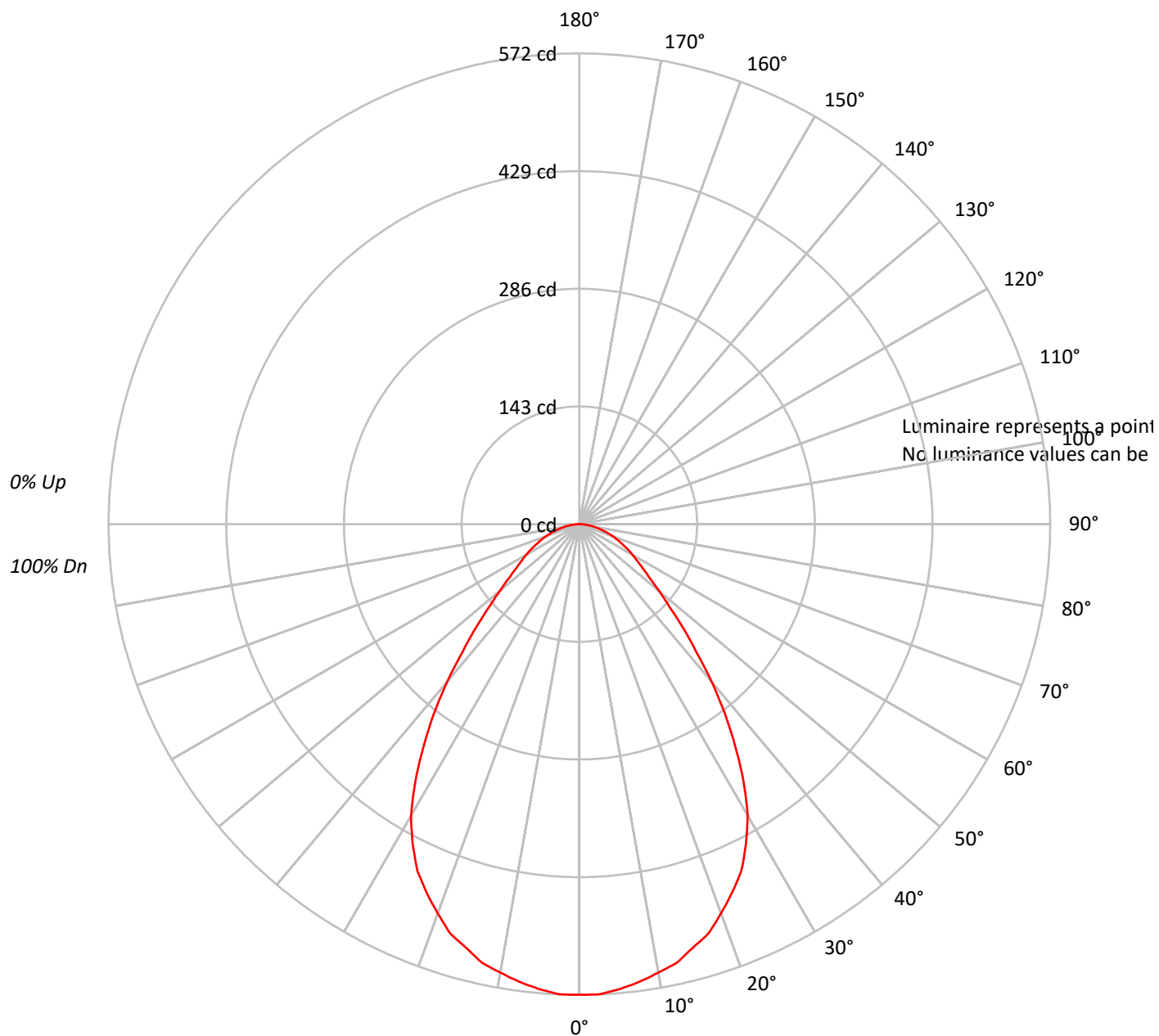
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78	
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69	
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61	
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55	
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50	
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45	
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38	
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	5.7
10°-20°	150.1	15.9
20°-30°	212.2	22.5
30°-40°	205.5	21.8
40°-50°	138.7	14.7
50°-60°	86.1	9.1
60°-70°	57.5	6.1
70°-80°	31.5	3.3
80°-90°	8.3	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°	416.0	44.1
0°-40°	621.6	65.9
0°-60°	846.4	89.7
0°-90°	943.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	572	
5°	567	54
15°	533	150
25°	465	212
35°	331	206
45°	178	139
55°	94	86
65°	58	58
75°	29	31
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	571.9
2.5°	571.9
5°	567.0
7.5°	560.9
10°	553.4
12.5°	546.1
15°	532.7
17.5°	521.7
20°	503.3
22.5°	484.9
25°	465.3
27.5°	438.4
30°	409.0
32.5°	371.1
35°	330.6
37.5°	290.2
40°	249.7
42.5°	209.4
45°	177.6
47.5°	148.1
50°	126.1
52.5°	107.8
55°	94.3
57.5°	83.3
60°	74.7
62.5°	66.1
65°	57.5
67.5°	50.2
70°	42.8
72.5°	36.8
75°	29.3
77.5°	23.3
80°	17.2
82.5°	12.3
85°	7.3
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)