

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: P210768

Luminaire Tested: **LE_4B10D010 EC4B10209027 4LBW1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35169)
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 4LBW1GPH
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE 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: 668.9 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

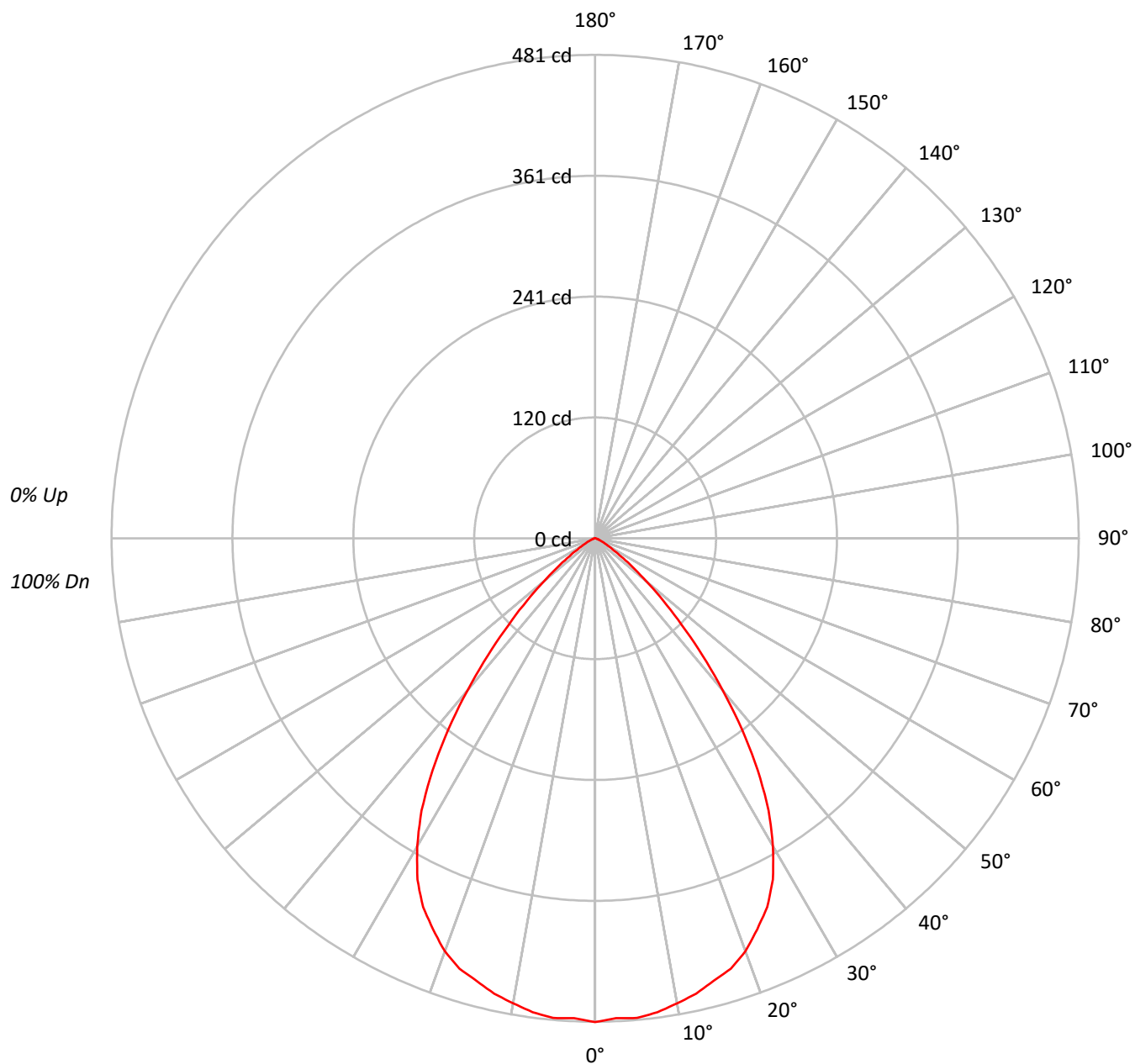
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	104	110	107	105	103	103	101	99		100	98	96		96
2	106	100	96	92	104	99	95	91	95	92	89		92	90	87		90
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	85	78	74	92	84	78	73	81	76	72		79	75	71		77
5	88	78	72	67	86	77	71	66	75	70	66		74	69	65		72
6	83	72	65	61	81	71	65	60	70	64	60		68	63	59		67
7	78	67	60	55	76	66	60	55	65	59	55		64	58	55		63
8	73	62	56	51	72	62	55	51	61	55	50		59	54	50		58
9	69	58	51	47	68	58	51	47	57	51	47		56	50	46		55
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52598
5°	52547
10°	52123
15°	51569
20°	50846
25°	48801
30°	44637
35°	37601
40°	28127
45°	18820
50°	11236
55°	5962
60°	3300
65°	1810
70°	1118
75°	507
80°	755
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	6.8
10°-20°	128.7	19.2
20°-30°	184.5	27.6
30°-40°	173.8	26.0
40°-50°	96.0	14.3
50°-60°	30.8	4.6
60°-70°	7.7	1.2
70°-80°	1.9	0.3
80°-90°	0.2	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°	358.6	53.6
0°-40°	532.4	79.6
0°-60°	659.2	98.5
0°-90°	668.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	668.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	481	
5°	479	45
15°	456	129
25°	405	185
35°	282	174
45°	122	96
55°	31	31
65°	7	8
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	481.4
2.5°	477.9
5°	479.1
7.5°	475.6
10°	469.8
12.5°	464.0
15°	455.9
17.5°	448.9
20°	437.3
22.5°	421.1
25°	404.8
27.5°	382.8
30°	353.8
32.5°	321.3
35°	281.9
37.5°	240.1
40°	197.2
42.5°	157.8
45°	121.8
47.5°	91.6
50°	66.1
52.5°	46.4
55°	31.3
57.5°	20.9
60°	15.1
62.5°	10.4
65°	7.0
67.5°	4.6
70°	3.5
72.5°	2.3
75°	1.2
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)