

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: P210855

Luminaire Tested: **LE_4B10D010 EC4B10209030 4LBW1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210855
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 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: 696.2 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

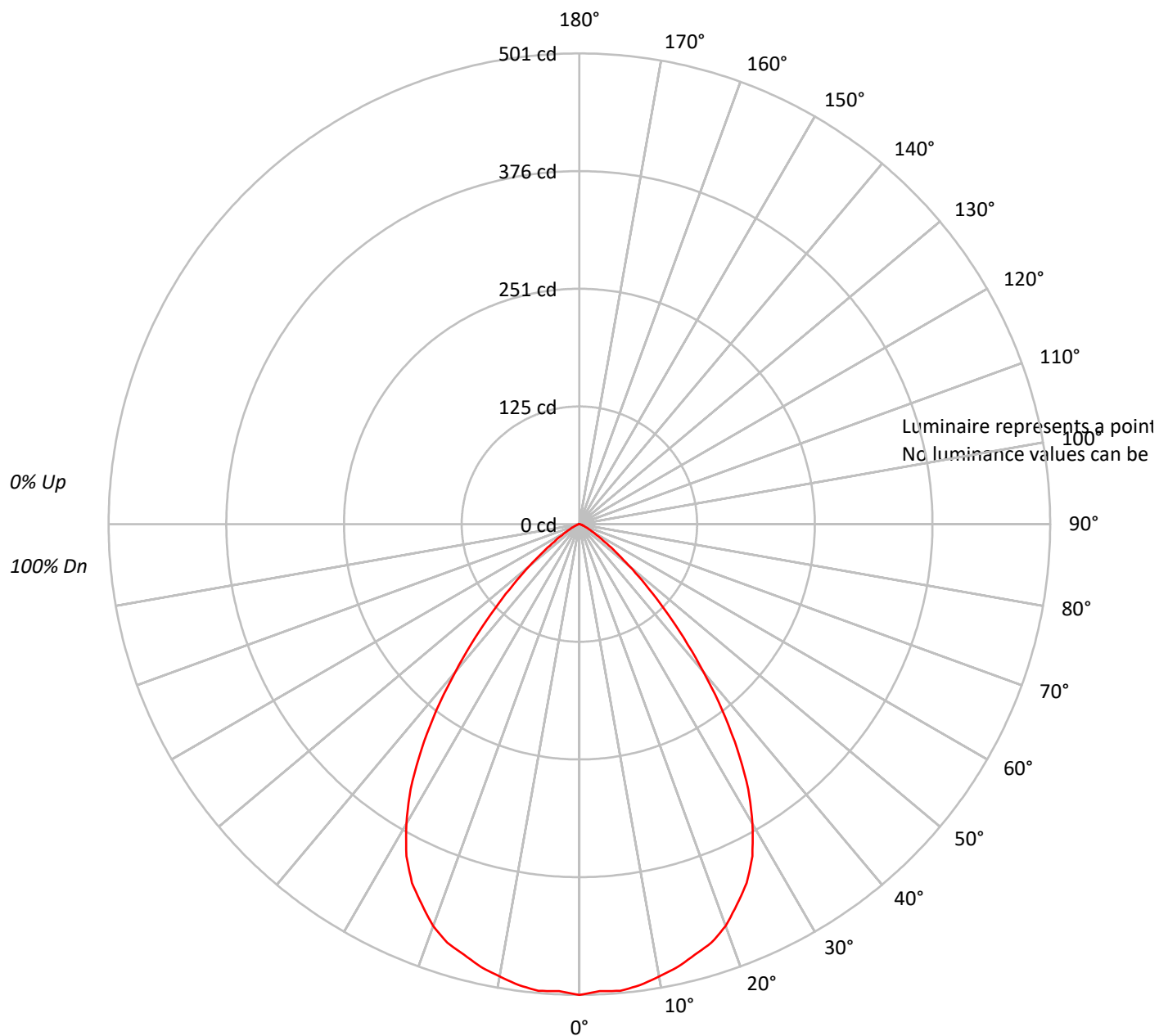
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	51		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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	6.8
10°-20°	133.9	19.2
20°-30°	192.1	27.6
30°-40°	180.9	26.0
40°-50°	99.9	14.4
50°-60°	32.0	4.6
60°-70°	8.0	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°	373.3	53.6
0°-40°	554.2	79.6
0°-60°	686.1	98.6
0°-90°	696.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	501	
5°	499	47
15°	475	134
25°	421	192
35°	293	181
45°	127	100
55°	33	32
65°	7	8
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	501.1
2.5°	497.4
5°	498.7
7.5°	495.0
10°	488.9
12.5°	482.9
15°	474.6
17.5°	467.2
20°	455.2
22.5°	438.2
25°	421.4
27.5°	398.5
30°	368.3
32.5°	334.4
35°	293.4
37.5°	250.0
40°	205.2
42.5°	164.3
45°	126.8
47.5°	95.4
50°	68.8
52.5°	48.3
55°	32.6
57.5°	21.7
60°	15.7
62.5°	10.9
65°	7.2
67.5°	4.9
70°	3.6
72.5°	2.4
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)