

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: P210830

Luminaire Tested: **LE_4B10D010 EC4B10208030 4LBW1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210830
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 EC4B10208030 4LBW1WH
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH WHEAT 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: 1080.8 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

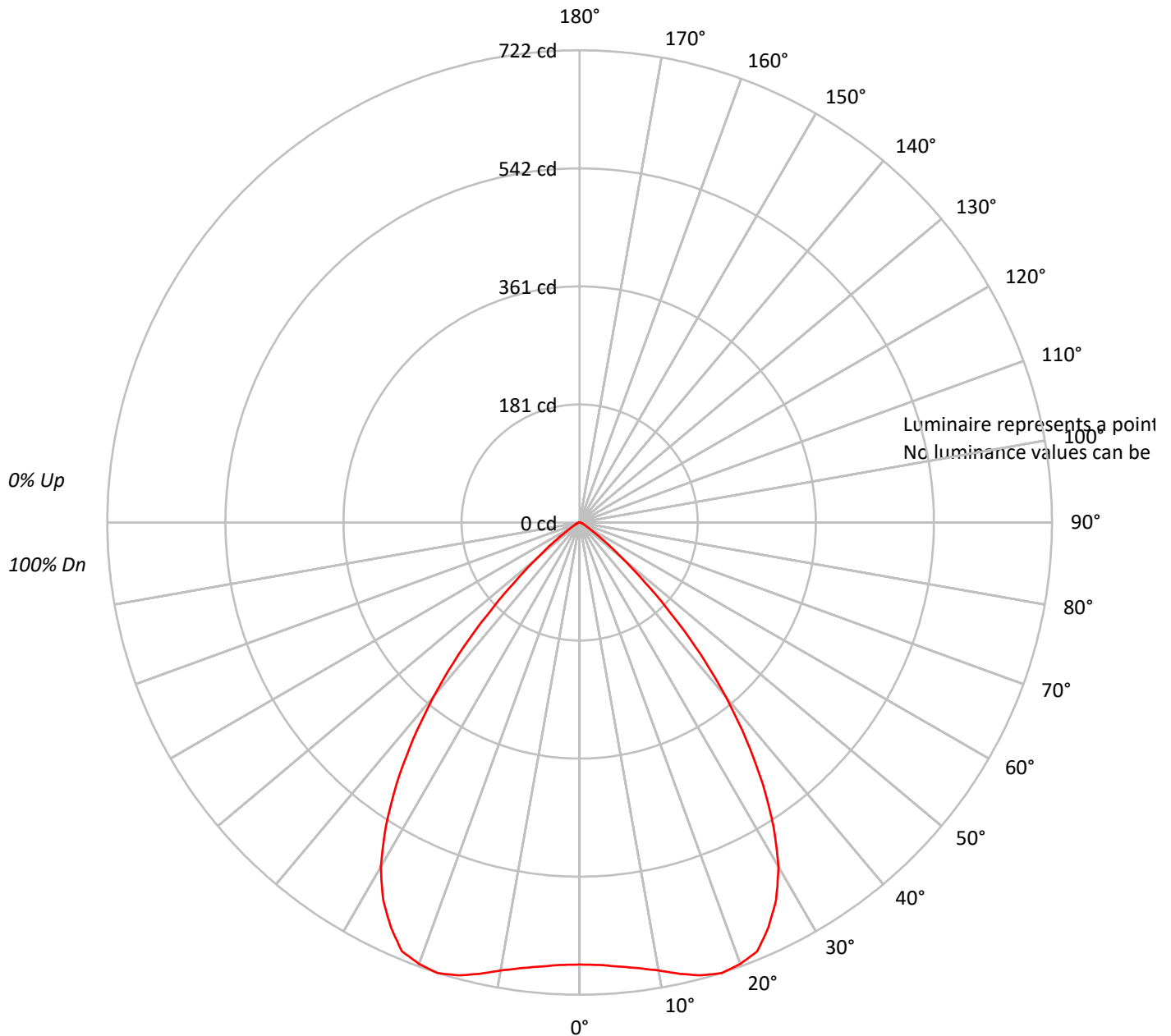
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	113	110	107	104		110	107	105	103		103	101	100			100	98	97			92
2	106	101	96	92		104	99	95	91		96	92	89			93	90	87			84
3	100	93	87	82		98	91	86	82		88	84	80			86	82	79			76
4	94	85	79	74		92	84	78	74		82	77	73			80	75	72			69
5	88	79	72	67		86	78	71	67		76	70	66			74	69	65			63
6	83	73	66	61		81	72	65	61		70	64	60			69	64	60			58
7	78	67	60	56		76	67	60	55		65	59	55			64	59	55			53
8	73	62	56	51		72	62	55	51		61	55	51			60	54	50			49
9	69	58	51	47		68	58	51	47		57	51	47			56	50	47			45
10	65	54	48	43		64	54	48	43		53	47	43			52	47	43			41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	6.1
10°-20°	202.5	18.7
20°-30°	311.6	28.8
30°-40°	300.6	27.8
40°-50°	156.7	14.5
50°-60°	33.0	3.1
60°-70°	7.7	0.7
70°-80°	3.0	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°	579.6	53.6
0°-40°	880.2	81.4
0°-60°	1069.9	99.0
0°-90°	1080.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1080.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	676	
5°	681	65
15°	717	203
25°	683	312
35°	488	301
45°	199	157
55°	30	33
65°	7	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	675.7
2.5°	677.1
5°	681.4
7.5°	687.1
10°	695.5
12.5°	706.8
15°	716.8
17.5°	722.3
20°	718.2
22.5°	709.7
25°	682.8
27.5°	650.3
30°	607.8
32.5°	551.3
35°	487.7
37.5°	418.4
40°	346.4
42.5°	274.2
45°	199.3
47.5°	134.3
50°	86.2
52.5°	52.3
55°	29.7
57.5°	18.3
60°	12.8
62.5°	9.9
65°	7.1
67.5°	5.7
70°	4.3
72.5°	4.3
75°	2.8
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)