

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: P210743

Luminaire Tested: **LE_4B10D010 EC4B10208027 4LBW1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210743
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 EC4B10208027 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: 1033.9 lumens
Efficiency: N/A
Efficacy: 104.4 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

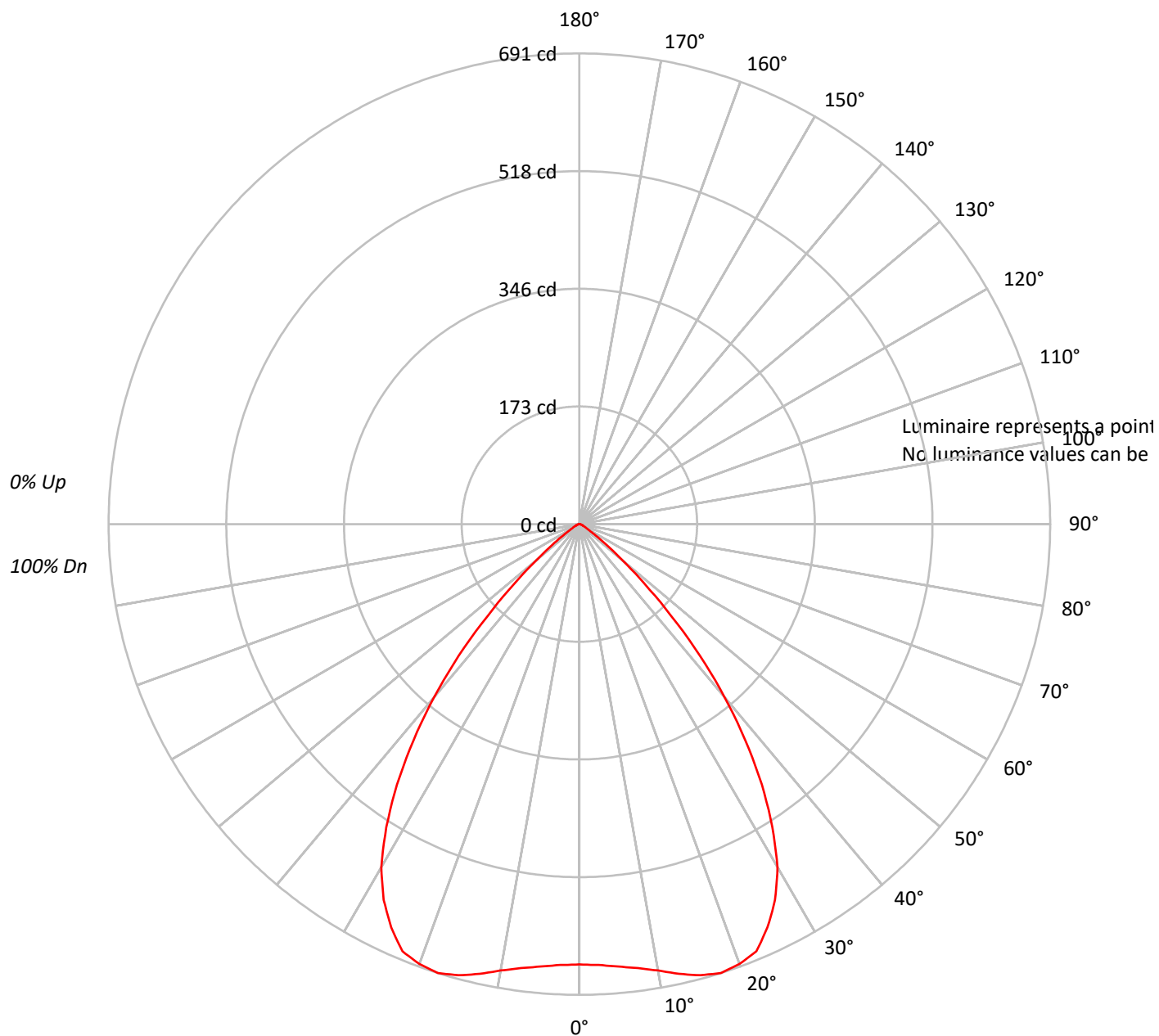
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53			
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	6.1
10°-20°	193.8	18.7
20°-30°	298.0	28.8
30°-40°	287.6	27.8
40°-50°	149.9	14.5
50°-60°	31.6	3.1
60°-70°	7.4	0.7
70°-80°	2.9	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°	554.4	53.6
0°-40°	842.0	81.4
0°-60°	1023.5	99.0
0°-90°	1033.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	646	
5°	652	63
15°	686	194
25°	653	298
35°	467	288
45°	191	150
55°	28	32
65°	7	7
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	646.4
2.5°	647.7
5°	651.8
7.5°	657.3
10°	665.4
12.5°	676.2
15°	685.6
17.5°	691.0
20°	687.0
22.5°	678.8
25°	653.2
27.5°	622.0
30°	581.5
32.5°	527.3
35°	466.6
37.5°	400.3
40°	331.3
42.5°	262.4
45°	190.7
47.5°	128.4
50°	82.5
52.5°	50.0
55°	28.4
57.5°	17.6
60°	12.2
62.5°	9.5
65°	6.7
67.5°	5.5
70°	4.1
72.5°	4.1
75°	2.7
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)