

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: P211227

Luminaire Tested: **LE_4B15D010 EC4B10209030 4LBS1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211227
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_4B15D010 EC4B10209030 4LBS1LI
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1517.5 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

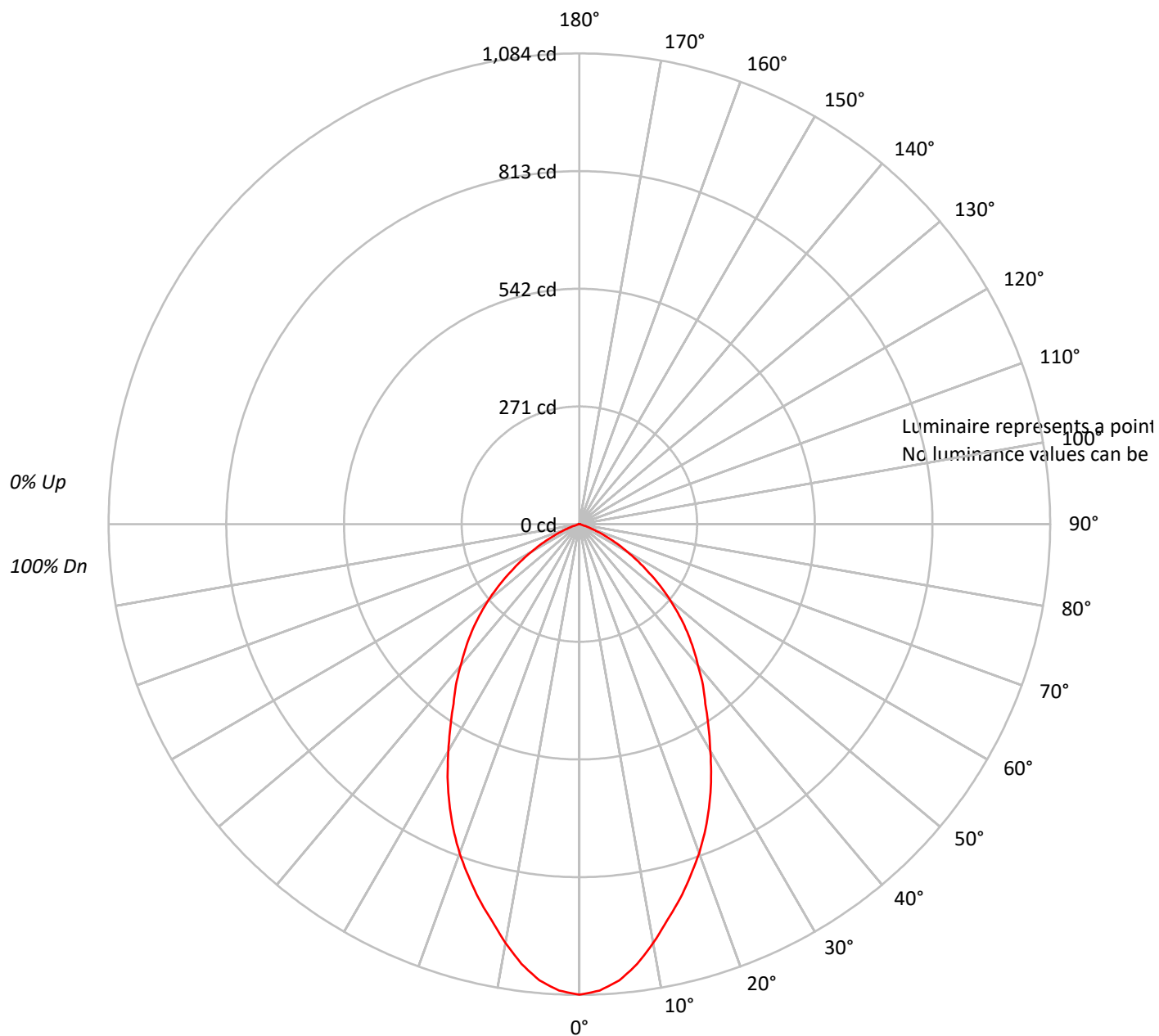
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	104	98	93	88	102	96	91	87	93	89	85		90	86	84		87
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		79
4	90	81	73	68	88	79	73	68	77	71	67		75	70	66		73
5	84	73	66	61	82	72	65	60	70	64	60		69	63	59		67
6	79	67	60	54	77	66	59	54	65	58	54		63	58	53		62
7	74	62	54	49	72	61	54	49	60	53	49		58	53	48		57
8	69	57	50	45	68	57	50	45	55	49	45		54	49	44		53
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50
10	61	50	43	38	60	49	42	38	48	42	38		47	42	38		46

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	6.5
10°-20°	250.6	16.5
20°-30°	324.7	21.4
30°-40°	318.1	21.0
40°-50°	269.7	17.8
50°-60°	176.8	11.6
60°-70°	71.1	4.7
70°-80°	8.1	0.5
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°	673.5	44.4
0°-40°	991.7	65.3
0°-60°	1438.1	94.8
0°-90°	1517.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1517.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1084	
5°	1055	98
15°	894	251
25°	709	325
35°	506	318
45°	351	270
55°	196	177
65°	69	71
75°	3	8
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1083.6
2.5°	1075.2
5°	1055.0
7.5°	1021.4
10°	979.4
12.5°	934.0
15°	893.8
17.5°	850.0
20°	806.3
22.5°	759.3
25°	708.9
27.5°	656.9
30°	603.1
32.5°	552.7
35°	505.6
37.5°	467.0
40°	425.0
42.5°	388.0
45°	351.1
47.5°	312.5
50°	273.9
52.5°	235.2
55°	196.5
57.5°	161.2
60°	127.7
62.5°	97.4
65°	68.9
67.5°	45.4
70°	26.9
72.5°	11.7
75°	3.4
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)