

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: P211081

Luminaire Tested: **LE_4B15D010 EC4B10209024 4LBS1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211081
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 EC4B10209024 4LBS1H
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SEMI-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: 1231.1 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

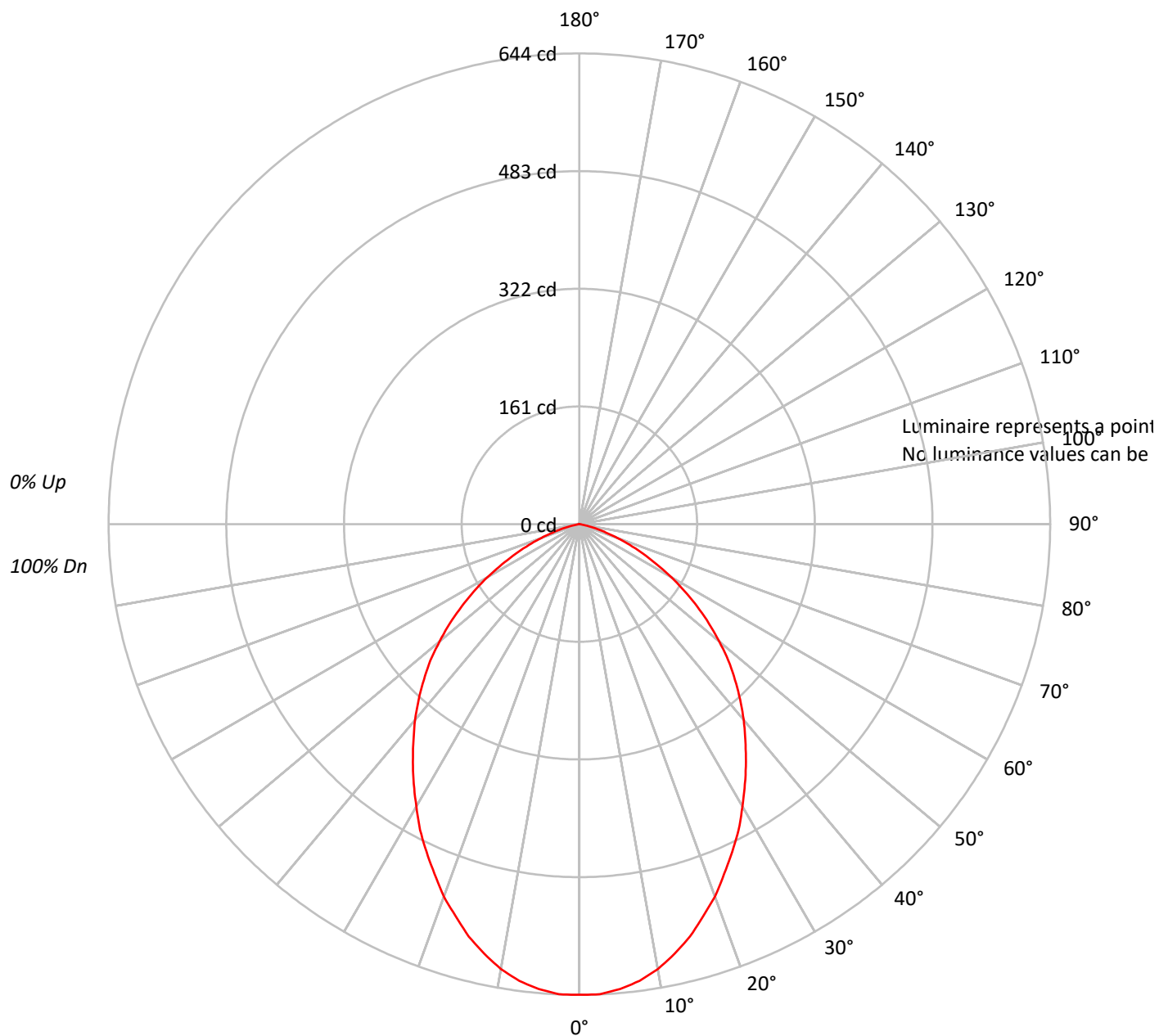
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	102	96	90	85	100	94	88	84		90	86	82		87	83	80		84	81	79
3	95	85	78	73	92	84	77	72		81	75	71		78	74	70		76	72	69
4	87	77	69	63	85	75	68	63		73	67	62		71	65	61		69	64	60
5	81	69	61	55	79	68	61	55		66	60	55		64	59	54		63	58	53
6	75	63	55	49	73	62	54	49		60	54	49		59	53	48		57	52	48
7	70	58	50	44	68	57	49	44		55	49	44		54	48	43		53	47	43
8	65	53	45	40	64	52	45	40		51	44	39		50	44	39		49	43	39
9	61	49	41	36	60	48	41	36		47	40	36		46	40	36		45	40	35
10	58	45	38	33	56	45	38	33		44	37	33		43	37	33		42	37	33

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	4.9
10°-20°	163.9	13.3
20°-30°	227.7	18.5
30°-40°	248.4	20.2
40°-50°	231.7	18.8
50°-60°	175.9	14.3
60°-70°	96.3	7.8
70°-80°	26.5	2.2
80°-90°	0.4	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°	451.9	36.7
0°-40°	700.3	56.9
0°-60°	1107.9	90.0
0°-90°	1231.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	644	
5°	638	60
15°	584	164
25°	495	228
35°	397	248
45°	301	232
55°	196	176
65°	96	96
75°	23	26
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	643.9
2.5°	643.9
5°	638.5
7.5°	630.3
10°	618.2
12.5°	601.9
15°	584.3
17.5°	562.6
20°	542.2
22.5°	517.8
25°	494.7
27.5°	471.8
30°	446.0
32.5°	421.5
35°	397.2
37.5°	372.8
40°	349.7
42.5°	325.4
45°	300.9
47.5°	276.5
50°	249.4
52.5°	223.6
55°	196.5
57.5°	170.8
60°	145.0
62.5°	119.2
65°	96.3
67.5°	74.6
70°	55.6
72.5°	37.9
75°	23.1
77.5°	10.8
80°	2.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)