

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: P211375

Luminaire Tested: **LE_4B15D010 EC4B10209040 4LBS1WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211375
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 EC4B10209040 4LBS1WMH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WARM HAZE 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: 1498.8 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

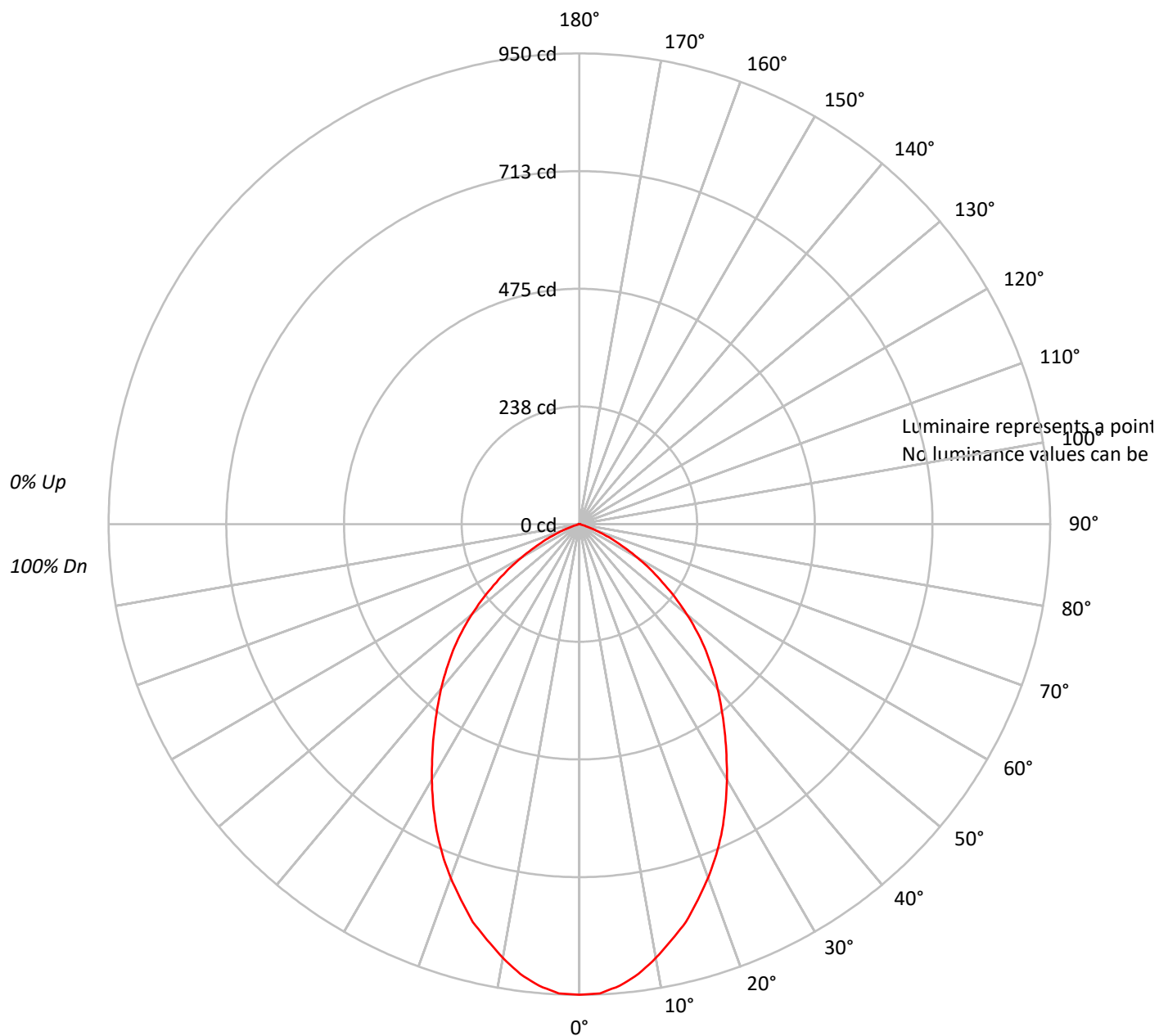
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97		98	96	94		95
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		86
3	96	88	82	76	94	87	81	76	84	79	74		81	77	73		79
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72
5	83	73	65	59	82	72	64	59	70	63	59		68	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	57	52		61
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56
8	68	56	49	44	67	56	48	43	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	50	44	40		49	44	39		49
10	60	48	41	37	59	48	41	37	47	41	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	5.9
10°-20°	232.7	15.5
20°-30°	312.5	20.8
30°-40°	319.8	21.3
40°-50°	276.8	18.5
50°-60°	184.1	12.3
60°-70°	75.6	5.0
70°-80°	9.0	0.6
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°	632.9	42.2
0°-40°	952.8	63.6
0°-60°	1413.8	94.3
0°-90°	1498.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	950	
5°	935	88
15°	831	233
25°	682	312
35°	511	320
45°	360	277
55°	204	184
65°	75	76
75°	4	9
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	949.9
2.5°	948.0
5°	935.2
7.5°	915.6
10°	889.0
12.5°	859.6
15°	831.1
17.5°	794.7
20°	759.3
22.5°	722.1
25°	681.7
27.5°	638.6
30°	595.3
32.5°	552.0
35°	510.9
37.5°	471.5
40°	434.2
42.5°	396.8
45°	360.5
47.5°	322.2
50°	282.9
52.5°	243.6
55°	204.4
57.5°	169.9
60°	134.6
62.5°	102.2
65°	74.7
67.5°	49.1
70°	28.5
72.5°	13.8
75°	3.9
77.5°	2.0
80°	0.9
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)