

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: P211102

Luminaire Tested: **LE_4B15D010 EC4B10208027 4LBN1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211102
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 EC4B10208027 4LBN1GPH
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH GRAPHITE 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: 777.4 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

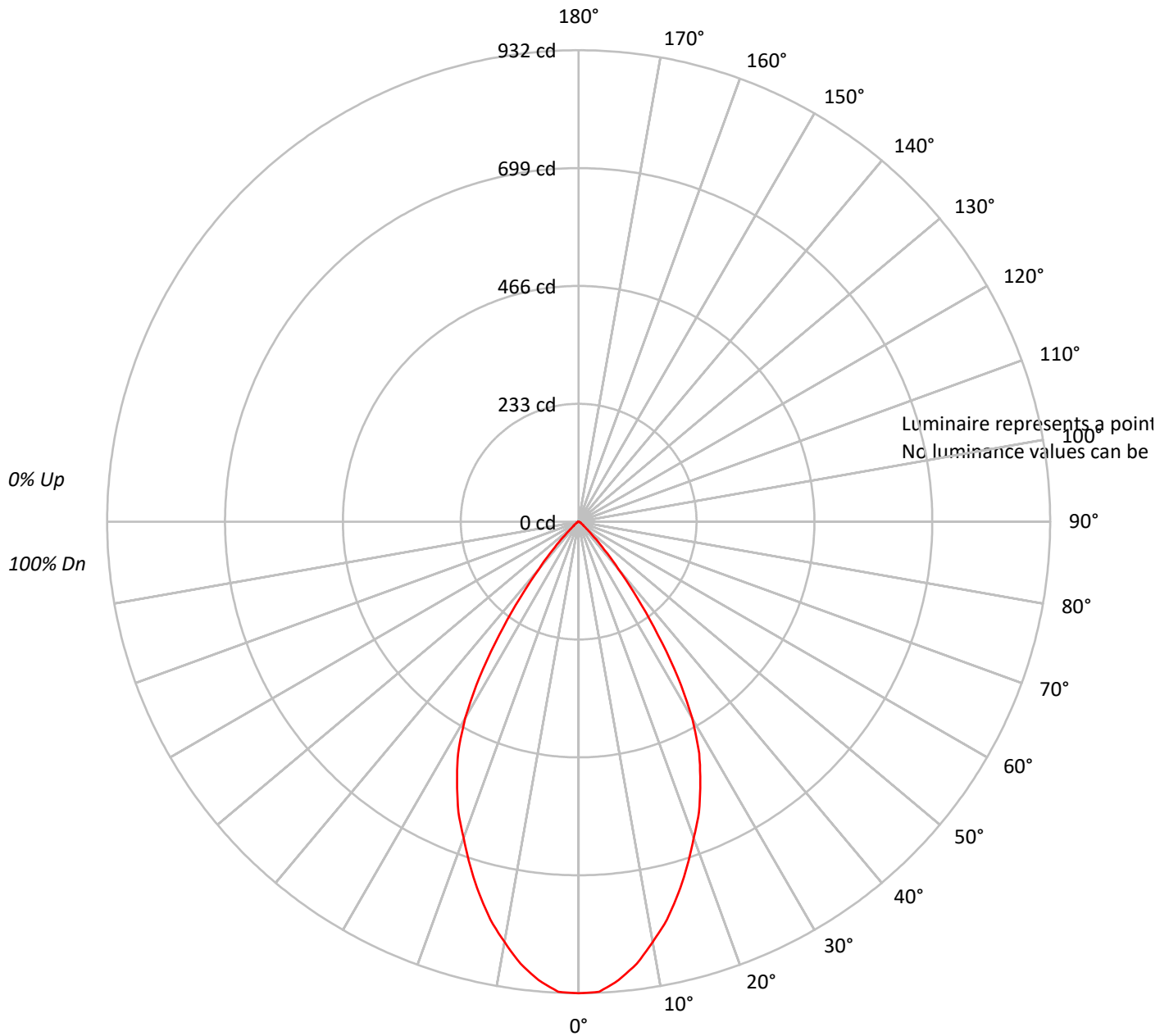
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	111	108	106		111	109	106	104		105	103	101			101	100	98			94
2	108	103	99	96		106	101	98	95		98	95	93			95	93	91			87
3	103	96	91	87		101	95	90	87		92	88	85			90	87	84			81
4	97	90	84	80		96	89	84	80		87	82	79			85	81	78			76
5	93	84	78	74		91	83	78	74		82	77	73			80	76	73			70
6	88	79	73	69		86	78	73	69		77	72	68			75	71	68			66
7	84	74	68	64		82	74	68	64		72	67	64			71	67	63			62
8	80	70	64	60		78	70	64	60		68	63	60			67	63	59			58
9	76	66	60	56		75	66	60	56		65	60	56			64	59	56			54
10	72	63	57	53		71	62	57	53		61	56	53			61	56	53			51

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	10.9
10°-20°	212.5	27.3
20°-30°	258.9	33.3
30°-40°	170.8	22.0
40°-50°	39.3	5.1
50°-60°	7.5	1.0
60°-70°	2.8	0.4
70°-80°	0.7	0.1
80°-90°	0.0	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°	556.2	71.5
0°-40°	727.0	93.5
0°-60°	773.9	99.5
0°-90°	777.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	777.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	932	
5°	910	85
15°	761	212
25°	569	259
35°	273	171
45°	43	39
55°	8	8
65°	2	3
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	932.3
2.5°	930.3
5°	909.7
7.5°	881.4
10°	843.8
12.5°	806.1
15°	760.8
17.5°	713.7
20°	664.8
22.5°	621.5
25°	568.7
27.5°	516.1
30°	448.2
32.5°	365.4
35°	273.1
37.5°	190.2
40°	122.4
42.5°	75.3
45°	43.3
47.5°	22.6
50°	13.2
52.5°	11.3
55°	7.5
57.5°	5.7
60°	5.7
62.5°	3.7
65°	1.9
67.5°	1.9
70°	1.9
72.5°	1.9
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)