

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: P211421

Luminaire Tested: **LE_4B15D010 EC4B10209050 4LBN1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211421
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 EC4B10209050 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: 707.7 lumens
Efficiency: N/A
Efficacy: 49.5 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

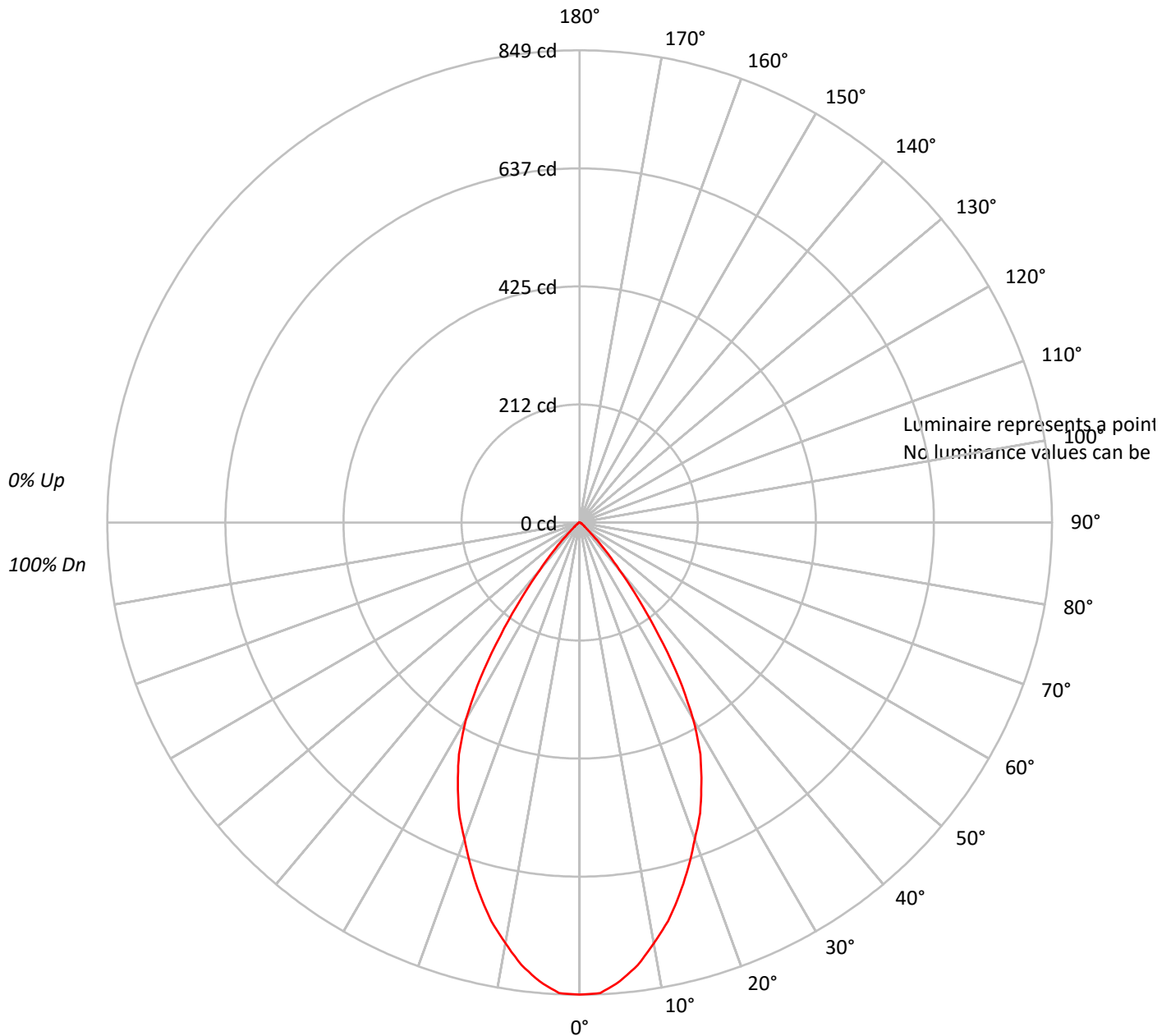
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	111	108	106	111	109	106	104		105	103	101			101	100	98			97
2	108	103	99	96	106	101	98	95		98	95	93			95	93	91			93
3	103	96	91	87	101	95	90	87		92	88	85			90	87	84			88
4	97	90	84	80	96	89	84	80		87	82	79			85	81	78			83
5	93	84	78	74	91	83	78	74		82	77	73			80	76	73			78
6	88	79	73	69	86	78	73	69		77	72	68			75	71	68			74
7	84	74	68	64	82	74	68	64		72	67	64			71	67	63			70
8	80	70	64	60	78	70	64	60		68	63	60			67	63	59			66
9	76	66	60	56	75	66	60	56		65	60	56			64	59	56			63
10	72	63	57	53	71	62	57	53		61	56	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	10.9
10°-20°	193.4	27.3
20°-30°	235.7	33.3
30°-40°	155.6	22.0
40°-50°	35.8	5.1
50°-60°	6.8	1.0
60°-70°	2.5	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°	506.4	71.5
0°-40°	661.9	93.5
0°-60°	704.5	99.5
0°-90°	707.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	707.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	849	
5°	828	77
15°	693	193
25°	518	236
35°	249	156
45°	39	36
55°	7	7
65°	2	3
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	848.8
2.5°	847.0
5°	828.2
7.5°	802.5
10°	768.2
12.5°	733.9
15°	692.8
17.5°	649.8
20°	605.3
22.5°	565.8
25°	517.8
27.5°	469.8
30°	408.1
32.5°	332.7
35°	248.6
37.5°	173.2
40°	111.5
42.5°	68.6
45°	39.4
47.5°	20.5
50°	11.9
52.5°	10.3
55°	6.8
57.5°	5.1
60°	5.1
62.5°	3.5
65°	1.7
67.5°	1.7
70°	1.7
72.5°	1.7
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)