

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: P211386

Luminaire Tested: **LSR4B15D010BZ EC4B10208050 4LBMGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211386
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: LSR4B15D010BZ EC4B10208050 4LBMGPH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 835.8 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

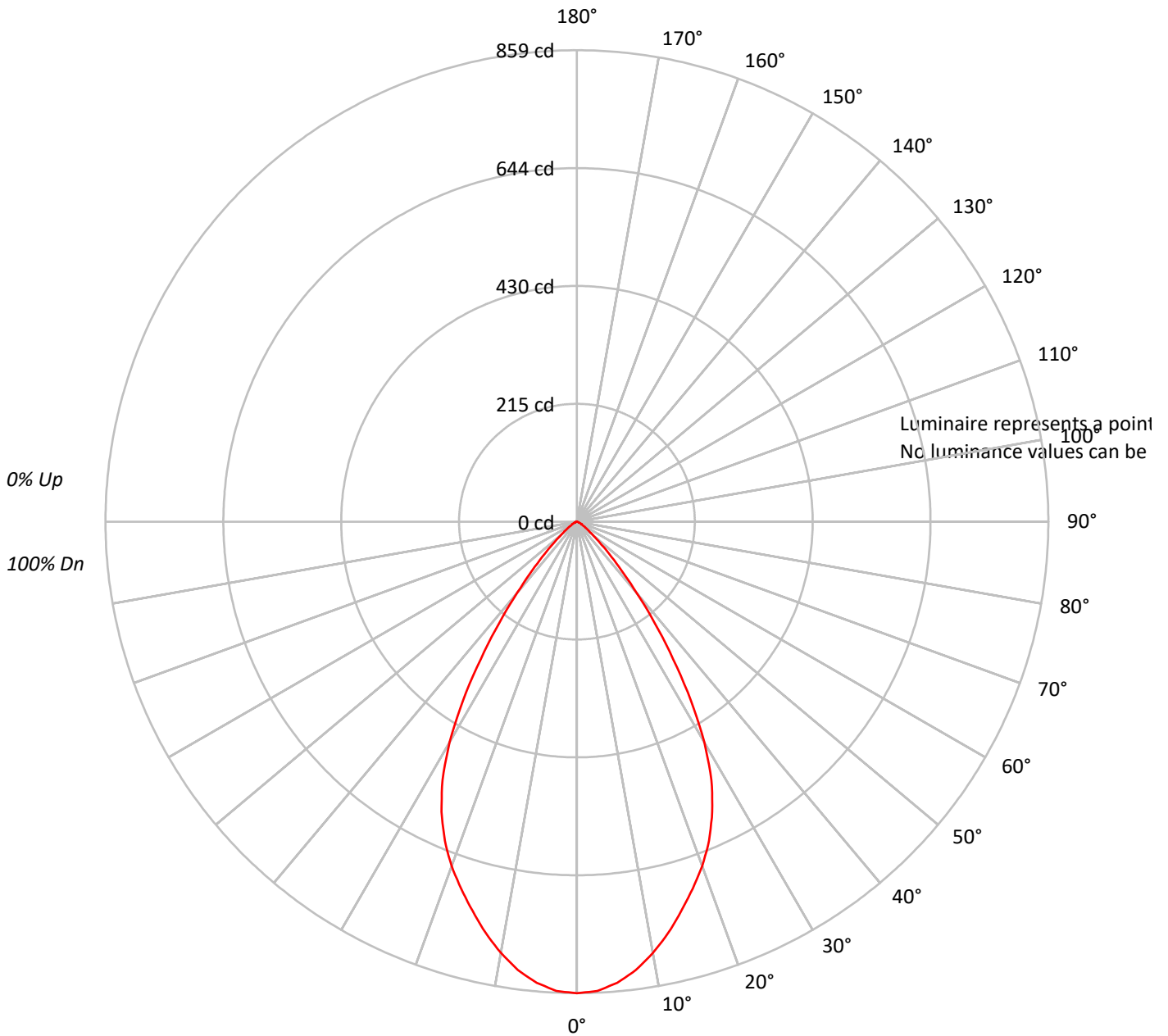
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0	
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100				100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86				86
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79				79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73				73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68				68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63				63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59				59
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55				55
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51				51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	52	49	48				48

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	9.5
10°-20°	206.2	24.7
20°-30°	264.5	31.6
30°-40°	191.1	22.9
40°-50°	68.5	8.2
50°-60°	18.5	2.2
60°-70°	6.1	0.7
70°-80°	1.9	0.2
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°	549.7	65.8
0°-40°	740.8	88.6
0°-60°	827.9	99.1
0°-90°	835.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	835.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	859	
5°	843	79
15°	734	206
25°	583	264
35°	306	191
45°	83	69
55°	19	19
65°	5	6
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	859.3
2.5°	855.7
5°	843.4
7.5°	824.1
10°	797.8
12.5°	767.9
15°	734.5
17.5°	701.1
20°	667.7
22.5°	629.1
25°	583.4
27.5°	530.7
30°	463.9
32.5°	386.6
35°	305.7
37.5°	231.9
40°	168.7
42.5°	119.5
45°	82.6
47.5°	56.2
50°	36.9
52.5°	26.4
55°	19.3
57.5°	14.1
60°	10.5
62.5°	8.8
65°	5.3
67.5°	3.5
70°	3.5
72.5°	1.8
75°	1.8
77.5°	1.8
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)