

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: P211323

Luminaire Tested: **LSR4B15D010BZ EC4B10209035 4LBWWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211323
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 EC4B10209035 4LBWWH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH WHEAT 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: 1123.9 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

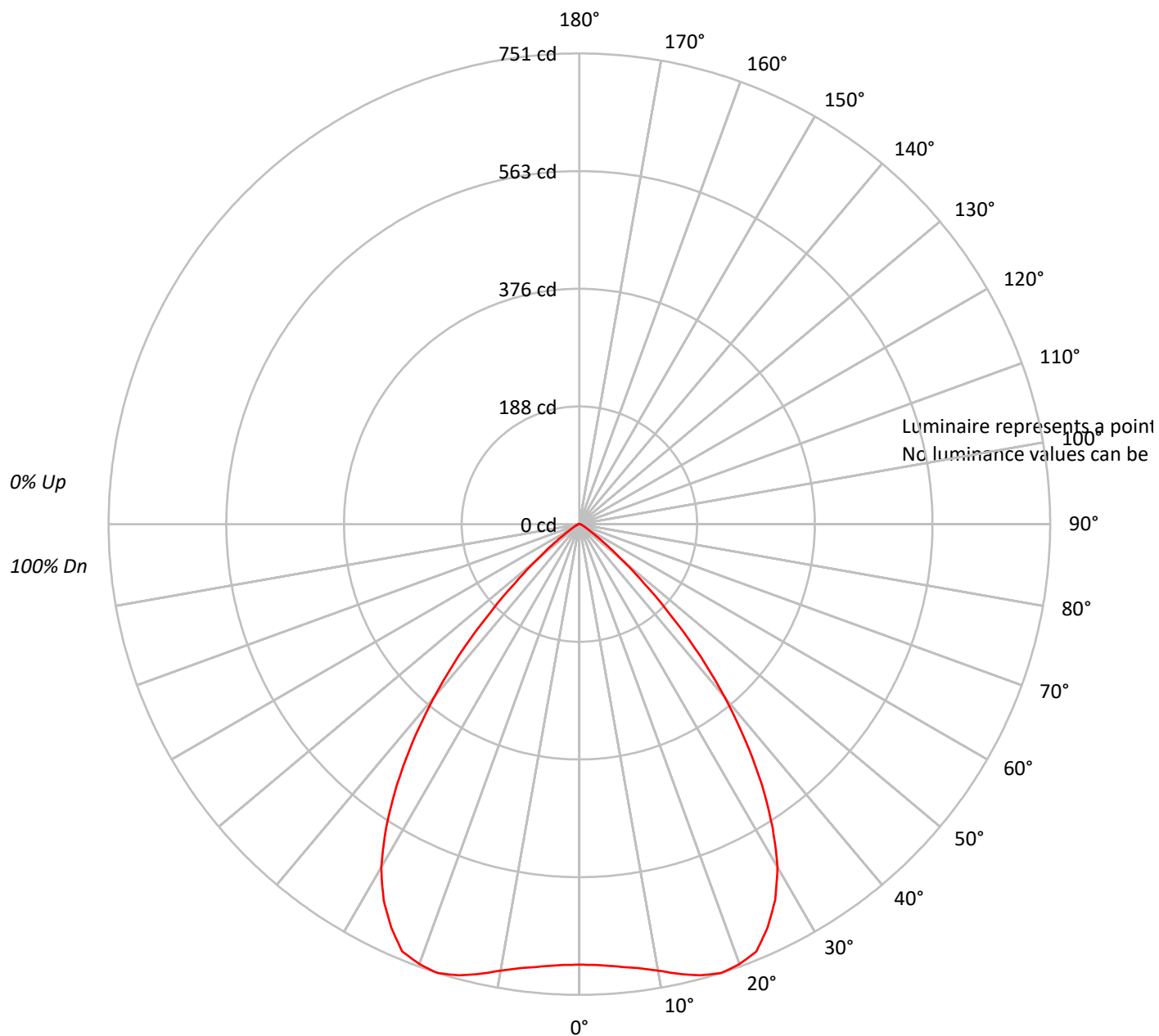
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100		100	98	97		96
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90
3	100	93	87	82	98	91	86	82	88	84	80		86	82	79		84
4	94	85	79	74	92	84	78	74	82	77	73		80	75	72		78
5	88	79	72	67	86	78	71	67	76	70	66		74	69	65		72
6	83	73	66	61	81	72	65	61	70	64	60		69	64	60		67
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63
8	73	62	56	51	72	62	55	51	61	55	51		60	54	50		59
9	69	58	51	47	68	58	51	47	57	51	47		56	50	47		55
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	6.1
10°-20°	210.6	18.7
20°-30°	324.0	28.8
30°-40°	312.6	27.8
40°-50°	163.0	14.5
50°-60°	34.3	3.1
60°-70°	8.0	0.7
70°-80°	3.1	0.3
80°-90°	0.2	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°	602.7	53.6
0°-40°	915.3	81.4
0°-60°	1112.6	99.0
0°-90°	1123.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	703	
5°	709	68
15°	745	211
25°	710	324
35°	507	313
45°	207	163
55°	31	34
65°	7	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	702.7
2.5°	704.2
5°	708.6
7.5°	714.4
10°	723.3
12.5°	735.0
15°	745.3
17.5°	751.2
20°	746.8
22.5°	738.0
25°	710.0
27.5°	676.2
30°	632.1
32.5°	573.3
35°	507.2
37.5°	435.1
40°	360.2
42.5°	285.2
45°	207.3
47.5°	139.7
50°	89.7
52.5°	54.4
55°	30.9
57.5°	19.1
60°	13.2
62.5°	10.3
65°	7.4
67.5°	5.9
70°	4.4
72.5°	4.4
75°	2.9
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)