

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: P211192

Luminaire Tested: **LSR4B15D010BZ EC4B10208030 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211192
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 EC4B10208030 4LBNMW1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE 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: 1066.6 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

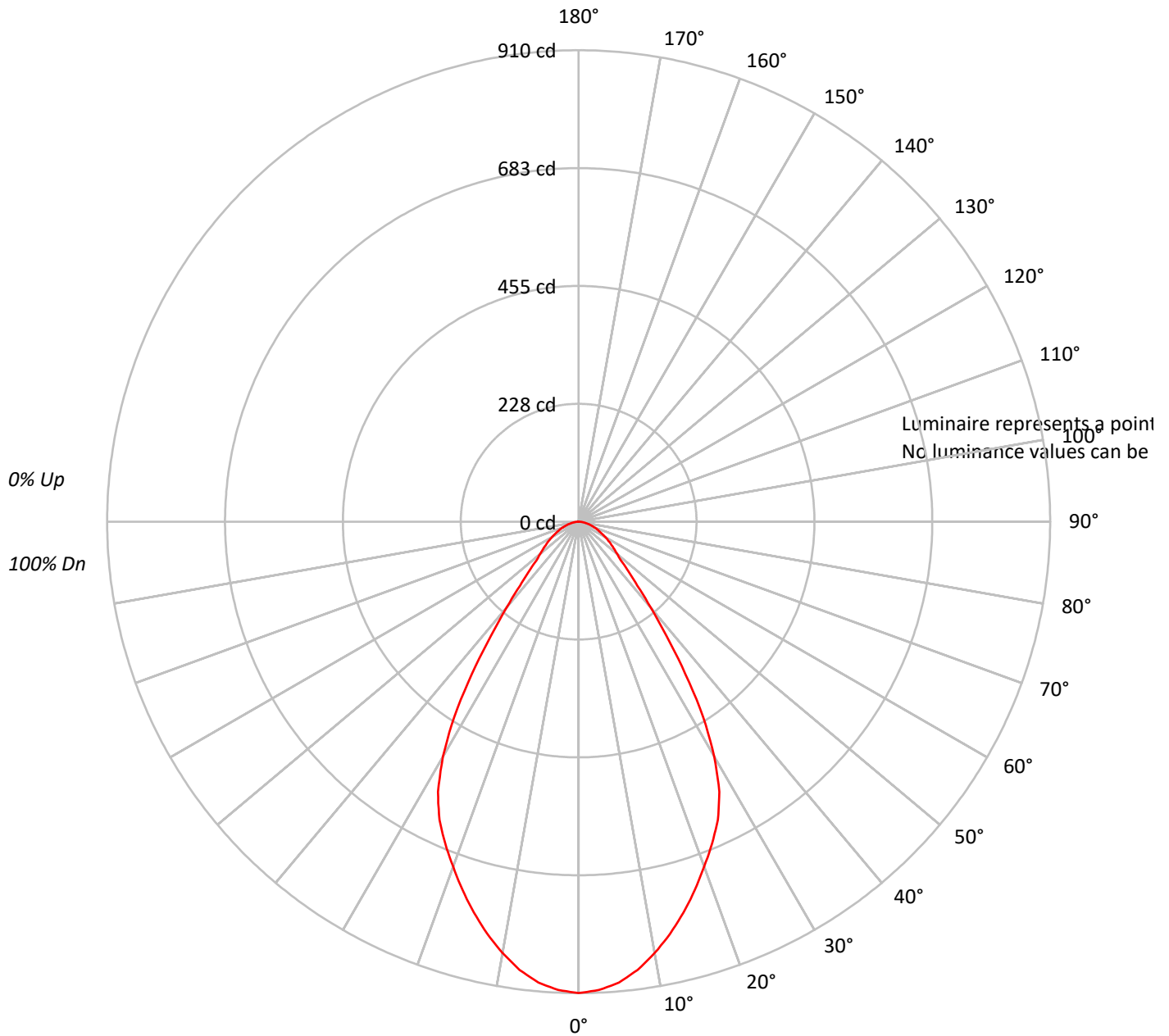
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	103	109	106	104	101	102	100	98		98	97	95		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	90	84	80	96	89	83	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	76	71	80	74	70		78	73	69		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	82	71	64	59	80	70	64	59	69	63	58		67	62	58		66
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62
8	73	62	55	50	71	61	55	50	60	54	50		59	53	49		58
9	69	58	51	46	68	57	51	46	56	50	46		55	50	46		54
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	7.8
10°-20°	219.0	20.5
20°-30°	288.3	27.0
30°-40°	224.4	21.0
40°-50°	109.0	10.2
50°-60°	68.8	6.5
60°-70°	44.4	4.2
70°-80°	23.2	2.2
80°-90°	5.8	0.5
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°	591.0	55.4
0°-40°	815.4	76.4
0°-60°	993.2	93.1
0°-90°	1066.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1066.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	910	
5°	893	84
15°	781	219
25°	635	288
35°	359	224
45°	136	109
55°	76	69
65°	44	44
75°	22	23
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	909.9
2.5°	904.8
5°	893.0
7.5°	872.6
10°	845.5
12.5°	815.0
15°	781.1
17.5°	745.6
20°	708.3
22.5°	672.7
25°	635.4
27.5°	588.0
30°	523.6
32.5°	447.3
35°	359.2
37.5°	277.9
40°	215.2
42.5°	167.7
45°	135.6
47.5°	110.1
50°	96.6
52.5°	86.4
55°	76.2
57.5°	67.8
60°	59.3
62.5°	50.8
65°	44.1
67.5°	39.0
70°	32.2
72.5°	27.1
75°	22.0
77.5°	16.9
80°	11.9
82.5°	8.5
85°	5.1
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)