

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: P211439

Luminaire Tested: **LSR4B15D010BZ EC4B10209050 4LBWWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211439
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 EC4B10209050 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: 1130.2 lumens
Efficiency: N/A
Efficacy: 79.0 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

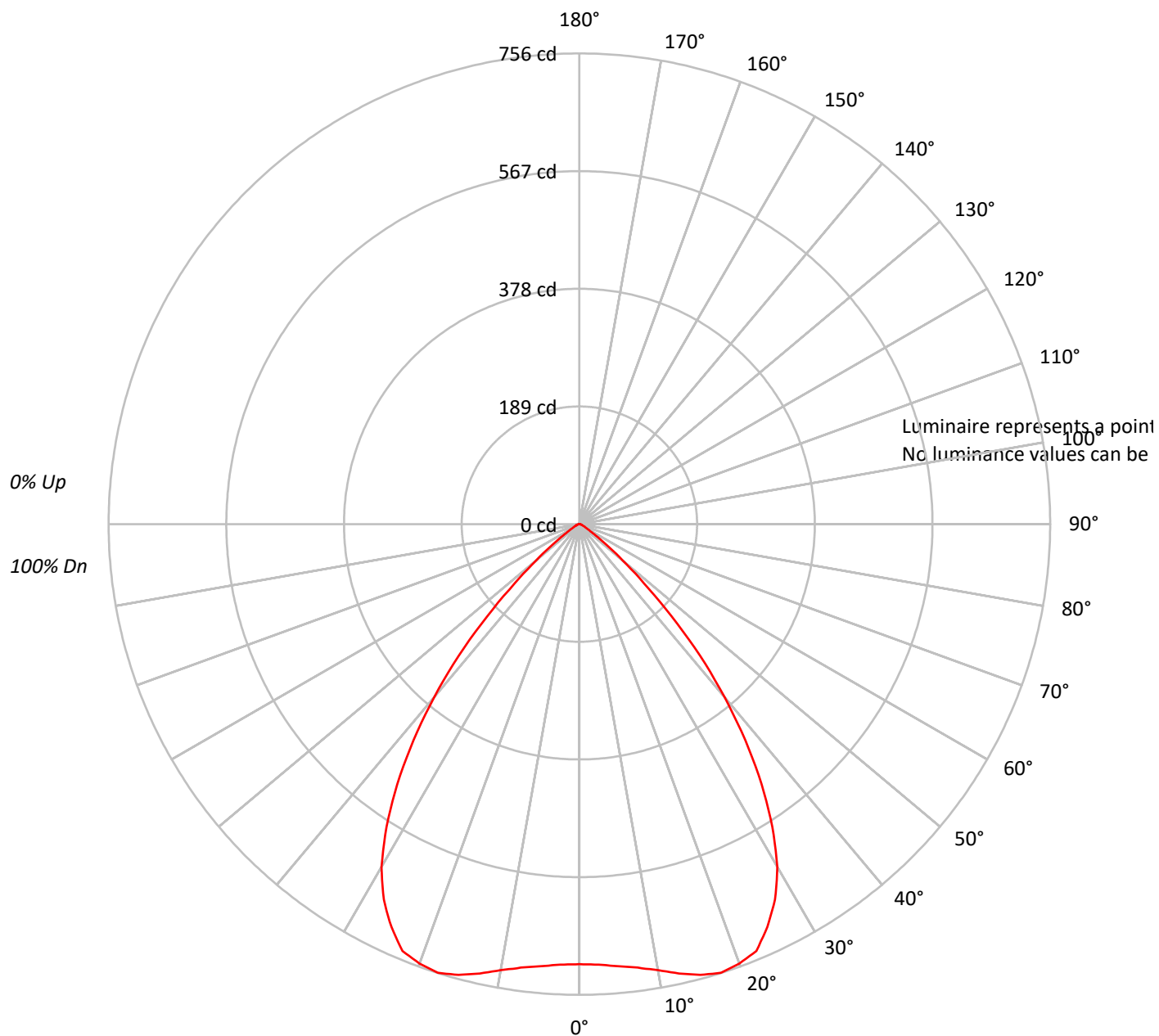
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211439

CATALOG NUMBER: LSR4B15D010BZ EC4B10209050 4LBWWH1

Luminous Intensity Polar Plot





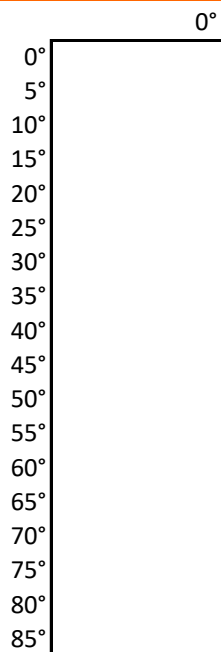
TEST NUMBER: P211439

CATALOG NUMBER: LSR4B15D010BZ EC4B10209050 4LBWWH1

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):





TEST NUMBER: P211439

CATALOG NUMBER: LSR4B15D010BZ EC4B10209050 4LBWWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	6.1
10°-20°	211.8	18.7
20°-30°	325.8	28.8
30°-40°	314.4	27.8
40°-50°	163.9	14.5
50°-60°	34.5	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°	606.1	53.6
0°-40°	920.5	81.4
0°-60°	1118.9	99.0
0°-90°	1130.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	707	
5°	713	68
15°	750	212
25°	714	326
35°	510	314
45°	208	164
55°	31	34
65°	7	8
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P211439

CATALOG NUMBER: LSR4B15D010BZ EC4B10209050 4LBWWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	706.7
2.5°	708.1
5°	712.6
7.5°	718.5
10°	727.4
12.5°	739.2
15°	749.5
17.5°	755.5
20°	751.0
22.5°	742.1
25°	714.1
27.5°	680.1
30°	635.7
32.5°	576.6
35°	510.0
37.5°	437.6
40°	362.2
42.5°	286.8
45°	208.5
47.5°	140.4
50°	90.2
52.5°	54.7
55°	31.0
57.5°	19.2
60°	13.3
62.5°	10.3
65°	7.4
67.5°	5.9
70°	4.4
72.5°	4.4
75°	3.0
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)