

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: P211116

Luminaire Tested: **LSR4B15D010BZ EC4B10208027 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211116
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 EC4B10208027 4LBWGPH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH 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: 936.2 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

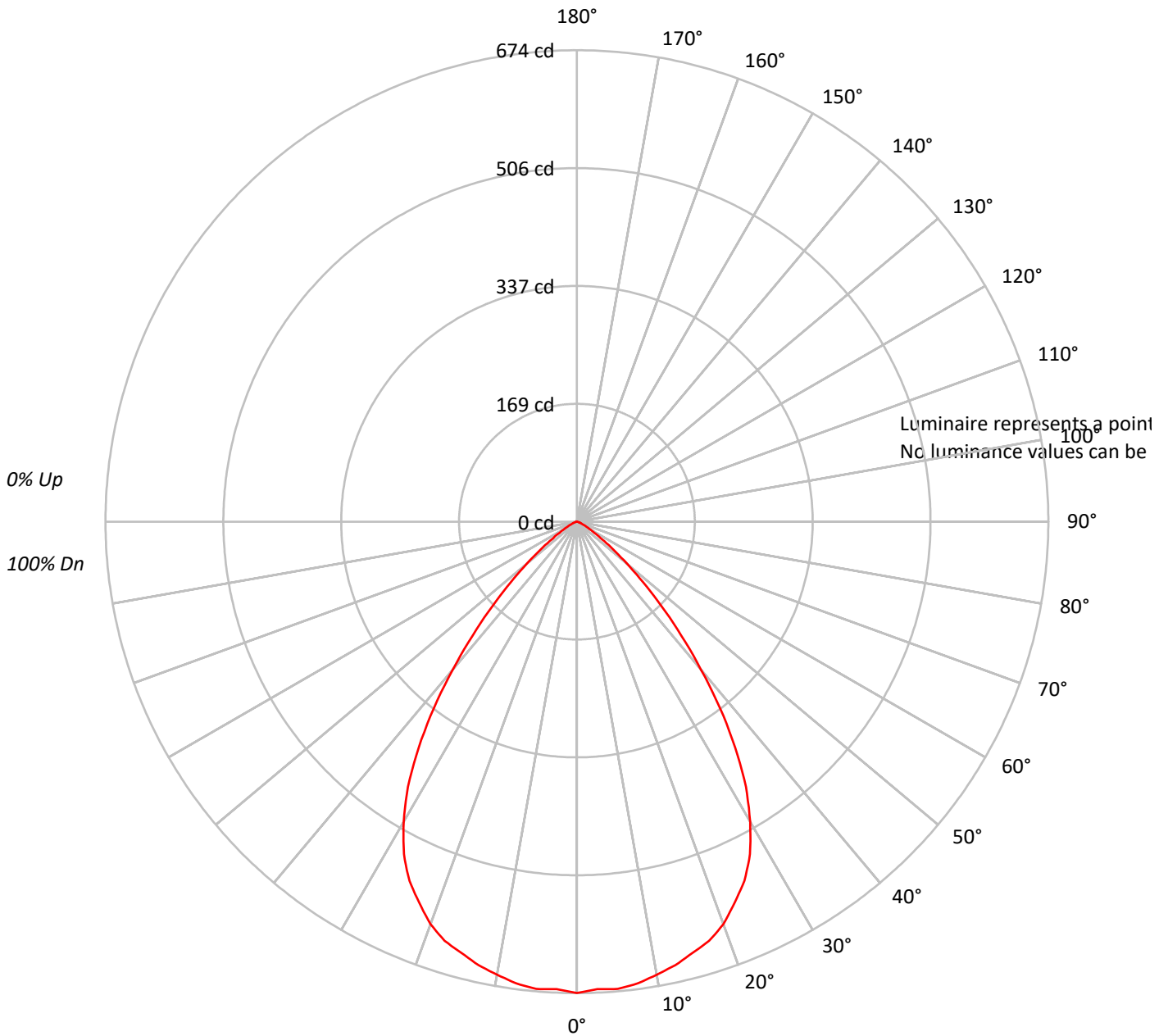
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211116

CATALOG NUMBER: LSR4B15D010BZ EC4B10208027 4LBWGPH1

Luminous Intensity Polar Plot





TEST NUMBER: P211116

CATALOG NUMBER: LSR4B15D010BZ EC4B10208027 4LBWGPH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76																			
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69																			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63																			
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57																			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53																			
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48																			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45																			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	42																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211116

CATALOG NUMBER: LSR4B15D010BZ EC4B10208027 4LBWGPH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	6.8
10°-20°	180.1	19.2
20°-30°	258.3	27.6
30°-40°	243.2	26.0
40°-50°	134.3	14.3
50°-60°	43.1	4.6
60°-70°	10.8	1.1
70°-80°	2.5	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°	502.0	53.6
0°-40°	745.3	79.6
0°-60°	922.7	98.6
0°-90°	936.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	936.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	674	
5°	671	64
15°	638	180
25°	567	258
35°	395	243
45°	170	134
55°	44	43
65°	10	11
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P211116

CATALOG NUMBER: LSR4B15D010BZ EC4B10208027 4LBWGPH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	673.9
2.5°	669.0
5°	670.6
7.5°	665.8
10°	657.6
12.5°	649.5
15°	638.2
17.5°	628.4
20°	612.2
22.5°	589.4
25°	566.7
27.5°	535.9
30°	495.3
32.5°	449.8
35°	394.6
37.5°	336.1
40°	276.0
42.5°	220.8
45°	170.5
47.5°	128.3
50°	92.6
52.5°	65.0
55°	43.8
57.5°	29.2
60°	21.1
62.5°	14.6
65°	9.7
67.5°	6.5
70°	4.9
72.5°	3.2
75°	1.6
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)