

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: P210741

Luminaire Tested: **LSR4B10D010BZ EC4B10208027 4LBWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210741
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: LSR4B10D010BZ EC4B10208027 4LBWLI1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1017.1 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

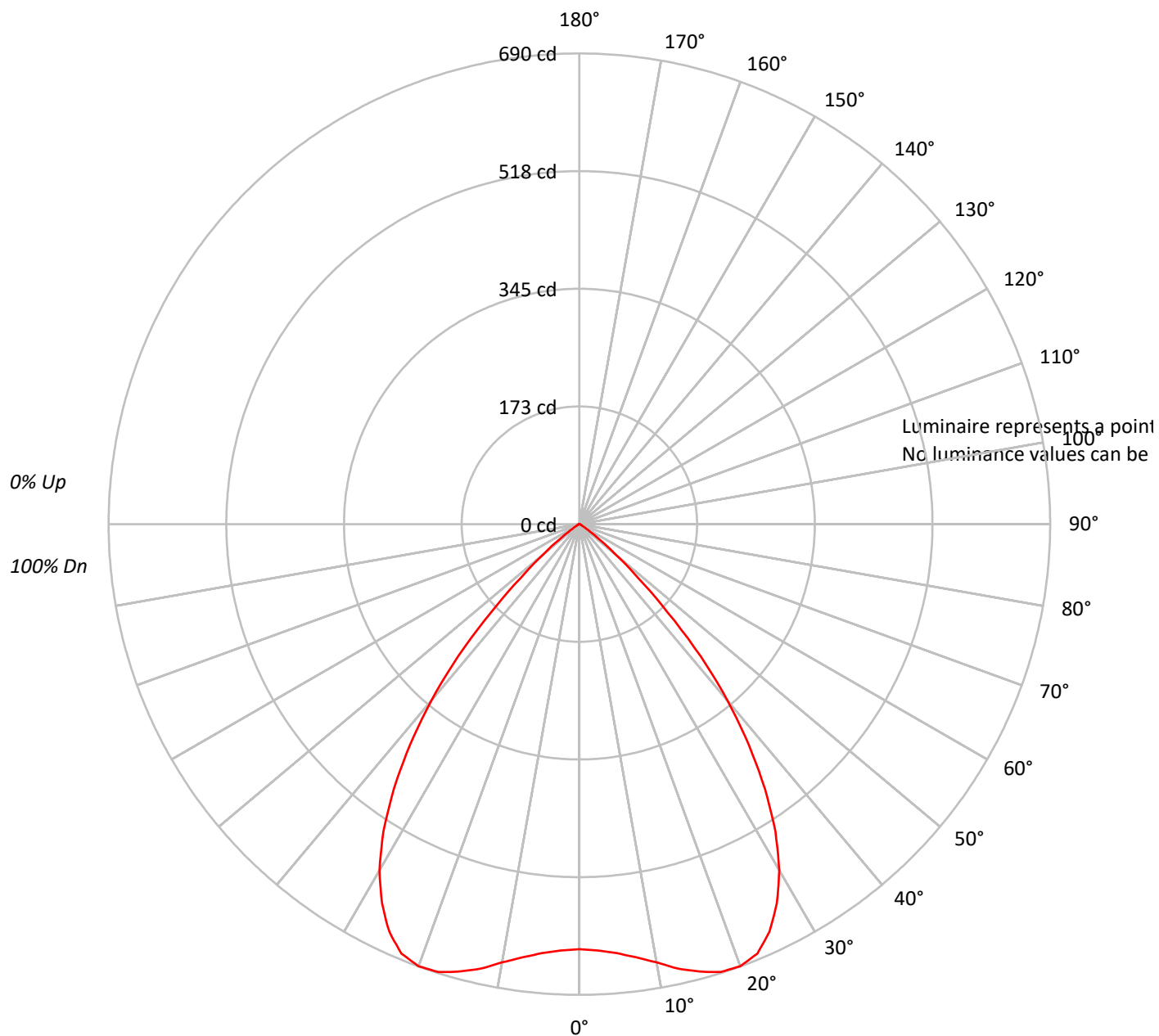
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210741

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBWL11

Luminous Intensity Polar Plot





TEST NUMBER: P210741

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBWL11

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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	113	110	107	105		110	108	105	103		104	102	100			100	98	97			92
2	106	101	97	93		104	99	95	92		96	93	90			93	90	88			84
3	100	93	87	83		98	92	86	82		89	85	81			86	83	80			77
4	94	86	79	75		92	84	79	74		82	77	73			80	76	72			70
5	88	79	72	68		87	78	72	67		76	71	67			74	70	66			64
6	83	73	66	62		82	72	66	61		71	65	61			69	64	60			58
7	78	68	61	56		77	67	61	56		66	60	56			64	59	55			54
8	74	63	56	52		72	62	56	51		61	55	51			60	55	51			49
9	69	59	52	48		68	58	52	47		57	51	47			56	51	47			45
10	66	55	48	44		65	54	48	44		53	48	44			53	47	44			42

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210741

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBWLI1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	6.0
10°-20°	192.3	18.9
20°-30°	300.0	29.5
30°-40°	291.9	28.7
40°-50°	145.8	14.3
50°-60°	22.6	2.2
60°-70°	2.7	0.3
70°-80°	0.8	0.1
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°	553.3	54.4
0°-40°	845.2	83.1
0°-60°	1013.6	99.7
0°-90°	1017.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1017.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	623	
5°	631	61
15°	679	192
25°	659	300
35°	474	292
45°	183	146
55°	19	23
65°	2	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P210741

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBWLI1

CANDELA DISTRIBUTION (FULL):

	0°
0°	623.2
2.5°	625.5
5°	631.3
7.5°	640.6
10°	652.3
12.5°	667.4
15°	679.1
17.5°	688.4
20°	689.6
22.5°	681.4
25°	659.3
27.5°	626.7
30°	585.9
32.5°	534.6
35°	474.1
37.5°	407.7
40°	337.8
42.5°	263.2
45°	182.9
47.5°	117.6
50°	71.1
52.5°	38.4
55°	18.6
57.5°	8.2
60°	4.7
62.5°	3.5
65°	2.3
67.5°	2.3
70°	1.2
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)