

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: P210791

Luminaire Tested: **LSR4B10D010BZ EC4B10209727 4LBSH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210791
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 EC4B10209727 4LBSH1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SEMI-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: 753.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

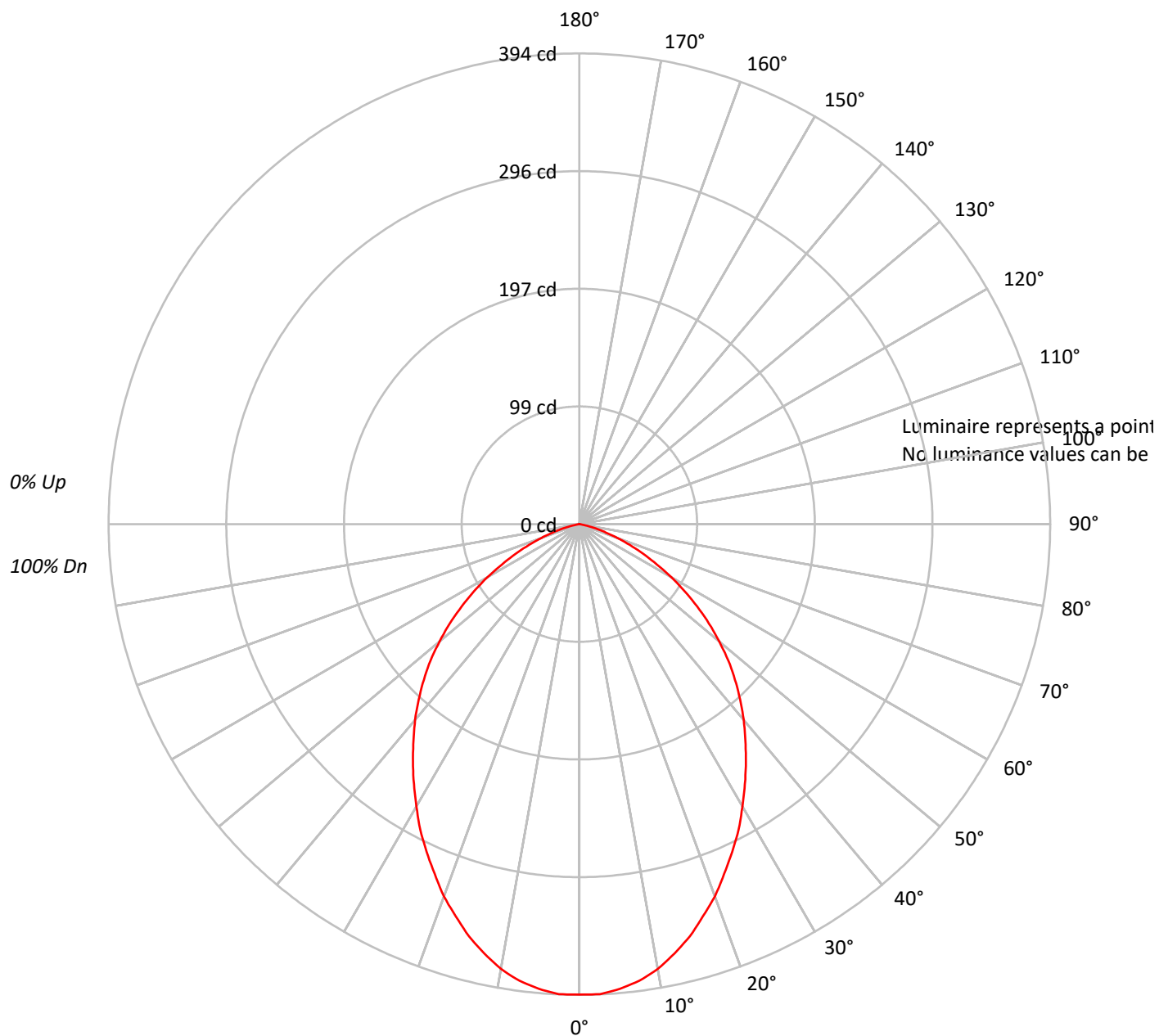
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210791

CATALOG NUMBER: LSR4B10D010BZ EC4B10209727 4LB5H1

Luminous Intensity Polar Plot





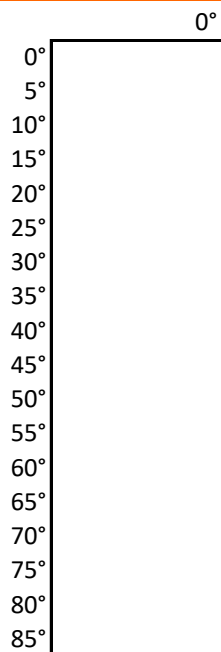
TEST NUMBER: P210791

CATALOG NUMBER: LSR4B10D010BZ EC4B10209727 4LBSH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	102	96	90	85	100	94	88	84		90	86	82		87	83	80		84	81	79
3	95	85	78	73	92	84	77	72		81	75	71		78	74	70		76	72	69
4	87	77	69	63	85	75	68	63		73	67	62		71	65	61		69	64	60
5	81	69	61	55	79	68	61	55		66	60	55		64	59	54		63	58	53
6	75	63	55	49	73	62	54	49		60	54	49		59	53	48		57	52	48
7	70	58	50	44	68	57	49	44		55	49	44		54	48	43		53	47	43
8	65	53	45	40	64	52	45	40		51	44	39		50	44	39		49	43	39
9	61	49	41	36	60	48	41	36		47	40	36		46	40	36		45	40	35
10	58	45	38	33	56	45	38	33		44	37	33		43	37	33		42	37	33

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210791

CATALOG NUMBER: LSR4B10D010BZ EC4B10209727 4LBSH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	4.9
10°-20°	100.3	13.3
20°-30°	139.2	18.5
30°-40°	151.9	20.2
40°-50°	141.8	18.8
50°-60°	107.6	14.3
60°-70°	58.9	7.8
70°-80°	16.2	2.2
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°	276.4	36.7
0°-40°	428.3	56.9
0°-60°	677.7	90.0
0°-90°	753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	394	
5°	390	37
15°	357	100
25°	303	139
35°	243	152
45°	184	142
55°	120	108
65°	59	59
75°	14	16
85°	0	0
90°	0	



TEST NUMBER: P210791

CATALOG NUMBER: LSR4B10D010BZ EC4B10209727 4LBSH1

CANDELA DISTRIBUTION (FULL):

0°	
0°	393.8
2.5°	393.8
5°	390.5
7.5°	385.5
10°	378.1
12.5°	368.1
15°	357.3
17.5°	344.1
20°	331.6
22.5°	316.7
25°	302.6
27.5°	288.5
30°	272.8
32.5°	257.8
35°	242.9
37.5°	228.0
40°	213.9
42.5°	199.0
45°	184.1
47.5°	169.1
50°	152.6
52.5°	136.8
55°	120.2
57.5°	104.5
60°	88.7
62.5°	73.0
65°	58.9
67.5°	45.6
70°	34.0
72.5°	23.2
75°	14.1
77.5°	6.6
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)