

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: P210726

Luminaire Tested: **LSR4B10D010BZ EC4B10208027 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210726
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 4LBNH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 641.9 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

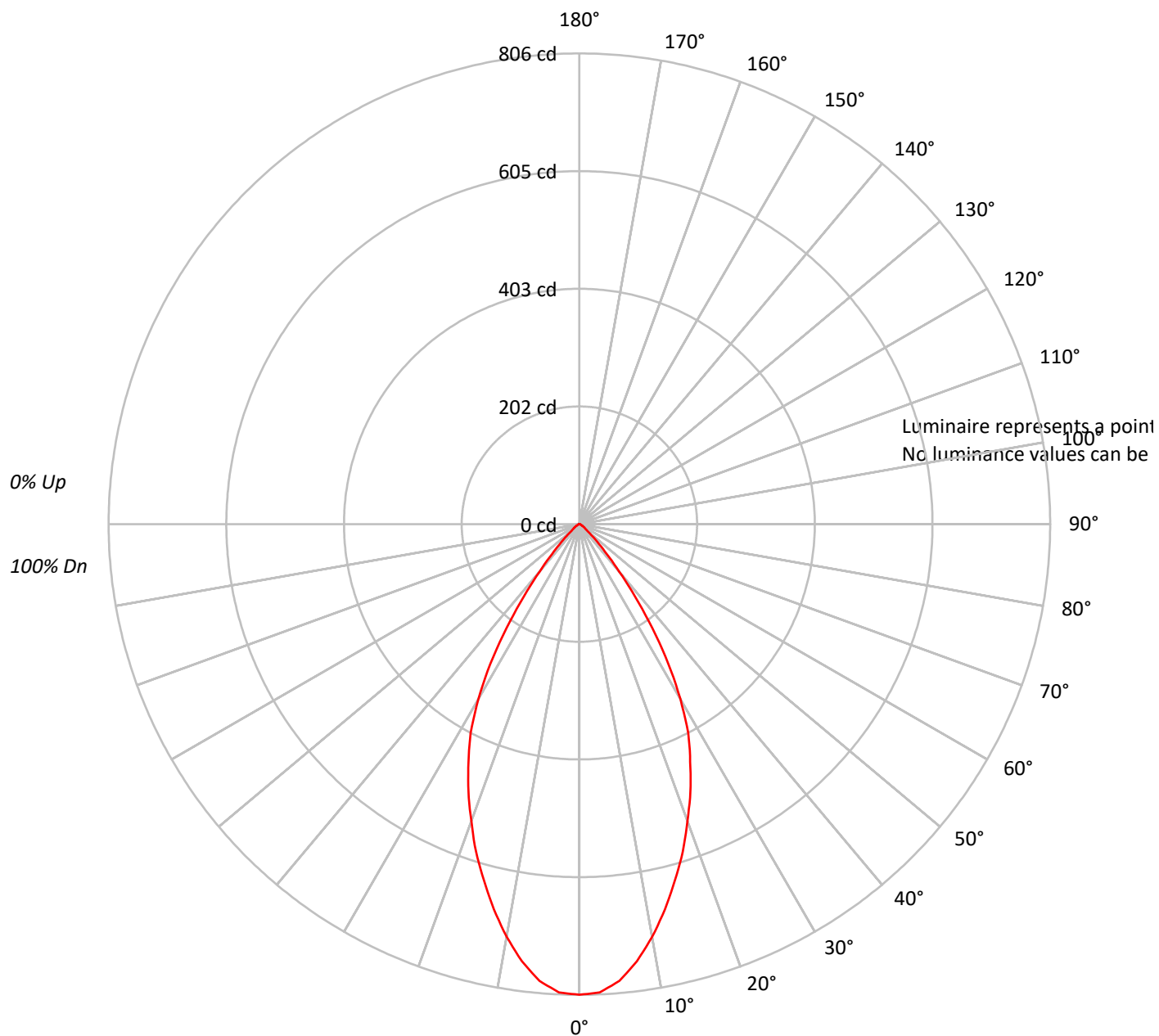
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210726

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBNH1

Luminous Intensity Polar Plot





TEST NUMBER: P210726

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBNH1

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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	113	111	108	106	111	109	106	104		105	103	101			101	99	98			93
2	108	103	99	96	106	101	98	94		98	95	92			95	93	90			87
3	102	96	91	87	100	95	90	86		92	88	85			90	86	84			81
4	97	90	84	80	95	89	83	79		86	82	78			84	81	78			75
5	92	84	78	74	91	83	78	73		81	76	73			80	75	72			70
6	88	79	73	69	86	78	72	68		77	72	68			75	71	67			65
7	83	74	68	64	82	73	68	64		72	67	63			71	66	63			61
8	79	70	64	60	78	69	64	60		68	63	59			67	63	59			58
9	76	66	60	56	74	65	60	56		65	59	56			64	59	56			54
10	72	62	57	53	71	62	56	53		61	56	53			60	56	52			51

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210726

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBNH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	11.3
10°-20°	176.4	27.5
20°-30°	204.8	31.9
30°-40°	135.6	21.1
40°-50°	38.0	5.9
50°-60°	9.6	1.5
60°-70°	3.6	0.6
70°-80°	1.3	0.2
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°	453.9	70.7
0°-40°	589.5	91.8
0°-60°	637.1	99.2
0°-90°	641.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	806	
5°	785	73
15°	632	176
25°	449	205
35°	218	136
45°	44	38
55°	10	10
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P210726

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBNH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	805.9
2.5°	802.5
5°	785.0
7.5°	754.8
10°	717.6
12.5°	675.7
15°	631.5
17.5°	588.5
20°	540.8
22.5°	496.6
25°	448.9
27.5°	403.6
30°	345.4
32.5°	283.8
35°	217.5
37.5°	155.8
40°	105.8
42.5°	68.6
45°	44.2
47.5°	26.7
50°	17.4
52.5°	12.8
55°	10.5
57.5°	8.1
60°	5.8
62.5°	4.7
65°	3.5
67.5°	2.3
70°	2.3
72.5°	1.2
75°	1.2
77.5°	1.2
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)