

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: P210728

Luminaire Tested: **LSR4B10D010BZ EC4B10208027 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210728
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 4LBNMW1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE 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: 732.7 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

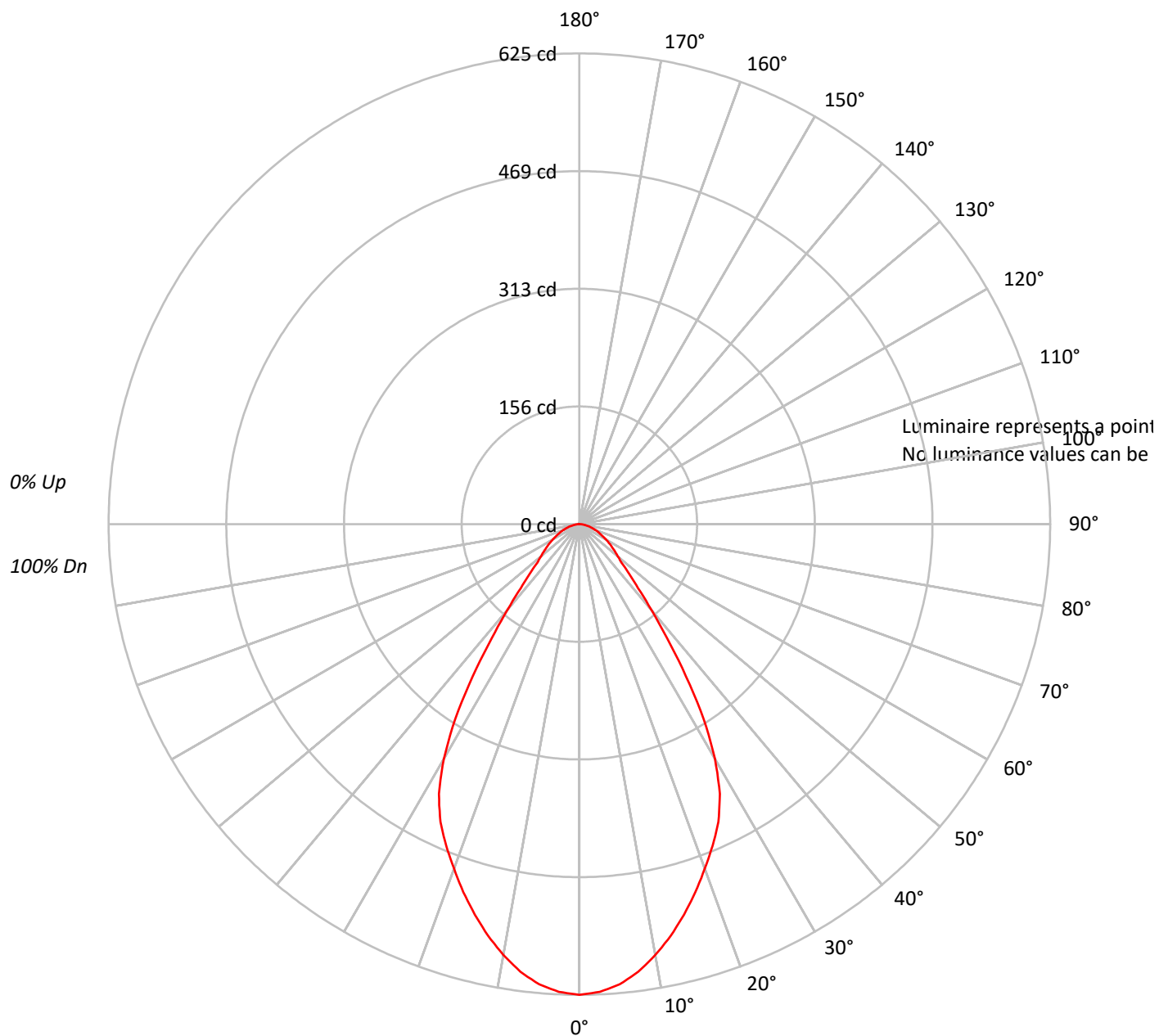
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210728

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBNMW1

Luminous Intensity Polar Plot





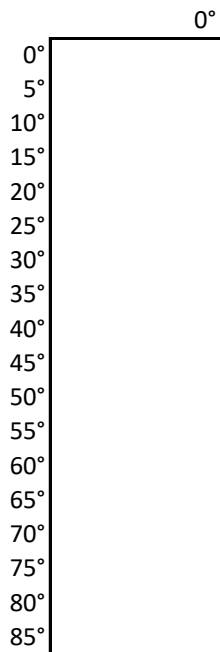
TEST NUMBER: P210728

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBNMW1

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	105	103		109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90		103	97	93	89		94	90	87		91	88	85		88	85	83
3	98	90	84	80		96	89	83	79		86	82	78		84	80	76		81	78	75
4	92	83	76	71		90	82	76	71		80	74	70		78	73	69		76	72	68
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	63
6	82	71	64	59		80	70	64	59		69	63	58		67	62	58		66	61	58
7	77	66	59	54		75	65	59	54		64	58	54		63	57	53		62	57	53
8	73	62	55	50		71	61	55	50		60	54	50		59	53	49		58	53	49
9	69	58	51	46		68	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43		64	54	47	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210728

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBNMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	7.8
10°-20°	150.5	20.5
20°-30°	198.0	27.0
30°-40°	154.2	21.0
40°-50°	74.9	10.2
50°-60°	47.3	6.5
60°-70°	30.5	4.2
70°-80°	15.9	2.2
80°-90°	4.0	0.5
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°	406.0	55.4
0°-40°	560.2	76.4
0°-60°	682.4	93.1
0°-90°	732.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	732.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	625	
5°	614	58
15°	537	150
25°	436	198
35°	247	154
45°	93	75
55°	52	47
65°	30	31
75°	15	16
85°	4	4
90°	0	



TEST NUMBER: P210728

CATALOG NUMBER: LSR4B10D010BZ EC4B10208027 4LBNMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	625.1
2.5°	621.6
5°	613.5
7.5°	599.5
10°	580.9
12.5°	559.9
15°	536.7
17.5°	512.2
20°	486.6
22.5°	462.1
25°	436.5
27.5°	403.9
30°	359.7
32.5°	307.3
35°	246.8
37.5°	190.9
40°	147.8
42.5°	115.2
45°	93.1
47.5°	75.7
50°	66.4
52.5°	59.4
55°	52.4
57.5°	46.6
60°	40.7
62.5°	34.9
65°	30.3
67.5°	26.8
70°	22.1
72.5°	18.6
75°	15.1
77.5°	11.6
80°	8.1
82.5°	5.8
85°	3.5
87.5°	1.2
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)