

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: P210875

Luminaire Tested: **LSR4B10D010BZ EC4B10209730 4LBPSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210875
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 EC4B10209730 4LBPSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC 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: 854.3 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

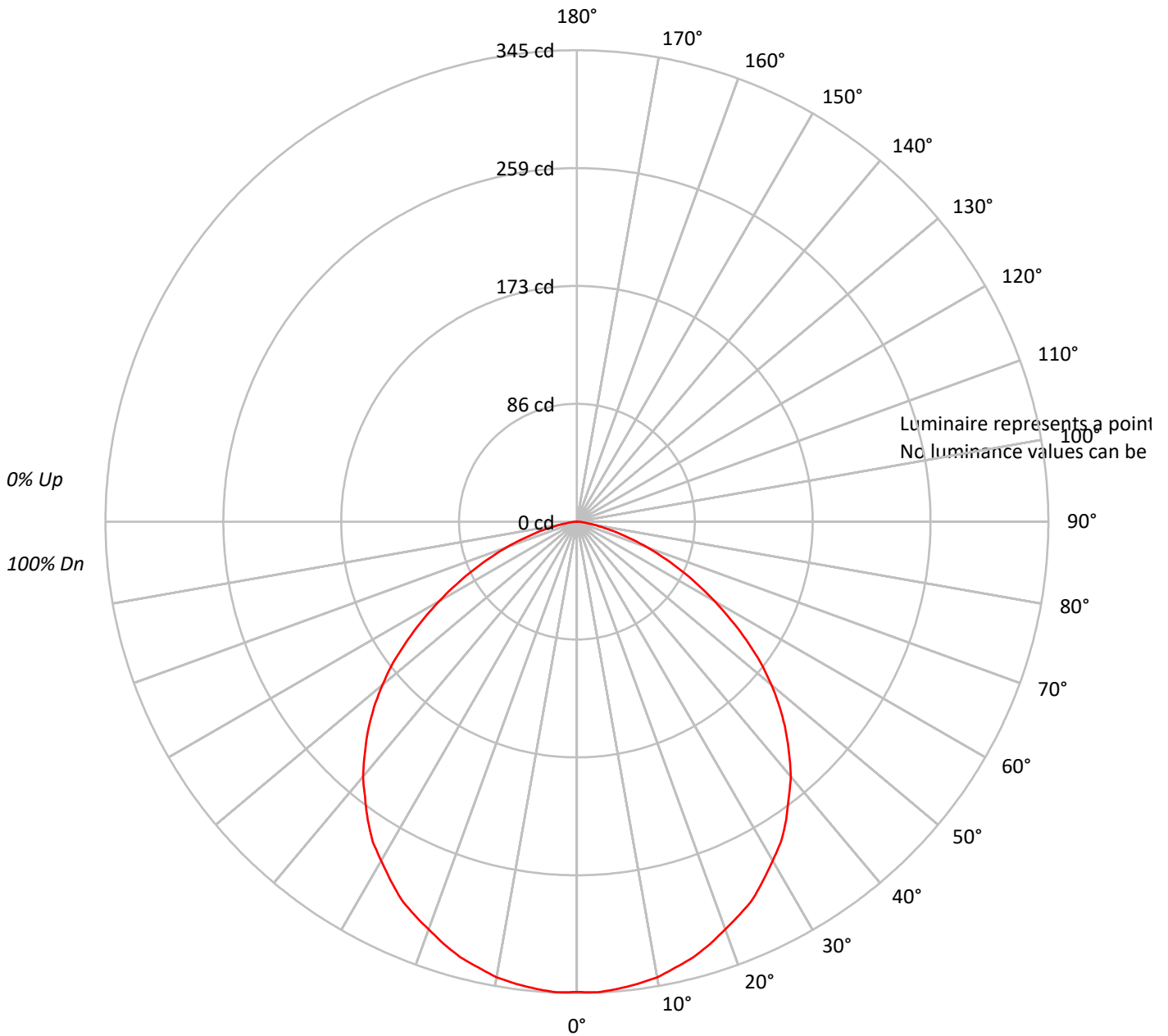
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210875

CATALOG NUMBER: LSR4B10D010BZ EC4B10209730 4LBPSMW1

Luminous Intensity Polar Plot





TEST NUMBER: P210875

CATALOG NUMBER: LSR4B10D010BZ EC4B10209730 4LBPSMW1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									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	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	100	100	100	100	100	100	100	100	100	100																	
	1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86	86	86	86	86	86	86	86	86	86	86																
	2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74	74	74	74	74	74	74	74	74	74																
	3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63	63	63	63	63	63	63	63	63	63	63	63																
	4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54	54	54	54	54	54	54	54	54	54	54	54																
	5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47	47	47	47	47	47	47	47	47	47	47	47																
	6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42	42	42	42	42	42	42	42	42	42	42	42																
	7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37	37	37	37	37	37	37	37	37	37	37	37																
	8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33	33	33	33	33	33	33	33	33	33	33	33																
	9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30	30	30	30	30	30	30	30	30	30	30	30																
	10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27	27	27	27	27	27	27	27	27	27	27	27																

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210875

CATALOG NUMBER: LSR4B10D010BZ EC4B10209730 4LBPSMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	3.8
10°-20°	93.0	10.9
20°-30°	140.0	16.4
30°-40°	166.6	19.5
40°-50°	166.3	19.5
50°-60°	135.2	15.8
60°-70°	83.2	9.7
70°-80°	32.2	3.8
80°-90°	5.1	0.6
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°	265.6	31.1
0°-40°	432.2	50.6
0°-60°	733.7	85.9
0°-90°	854.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	854.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	344	
5°	343	33
15°	330	93
25°	305	140
35°	267	167
45°	216	166
55°	151	135
65°	84	83
75°	29	32
85°	4	5
90°	0	



TEST NUMBER: P210875

CATALOG NUMBER: LSR4B10D010BZ EC4B10209730 4LBPSMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	344.2
2.5°	344.7
5°	343.2
7.5°	341.2
10°	338.6
12.5°	334.1
15°	330.0
17.5°	324.0
20°	317.4
22.5°	311.3
25°	304.7
27.5°	295.6
30°	286.5
32.5°	277.9
35°	266.8
37.5°	254.6
40°	243.5
42.5°	229.8
45°	216.1
47.5°	201.5
50°	185.8
52.5°	169.6
55°	151.4
57.5°	133.6
60°	116.4
62.5°	99.7
65°	83.5
67.5°	68.3
70°	54.2
72.5°	41.0
75°	29.4
77.5°	19.2
80°	11.6
82.5°	7.1
85°	4.0
87.5°	2.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)