

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: P211047

Luminaire Tested: **LSR4B10D010BZ EC4B10209050 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211047
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 EC4B10209050 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: 667.4 lumens
Efficiency: N/A
Efficacy: 67.4 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

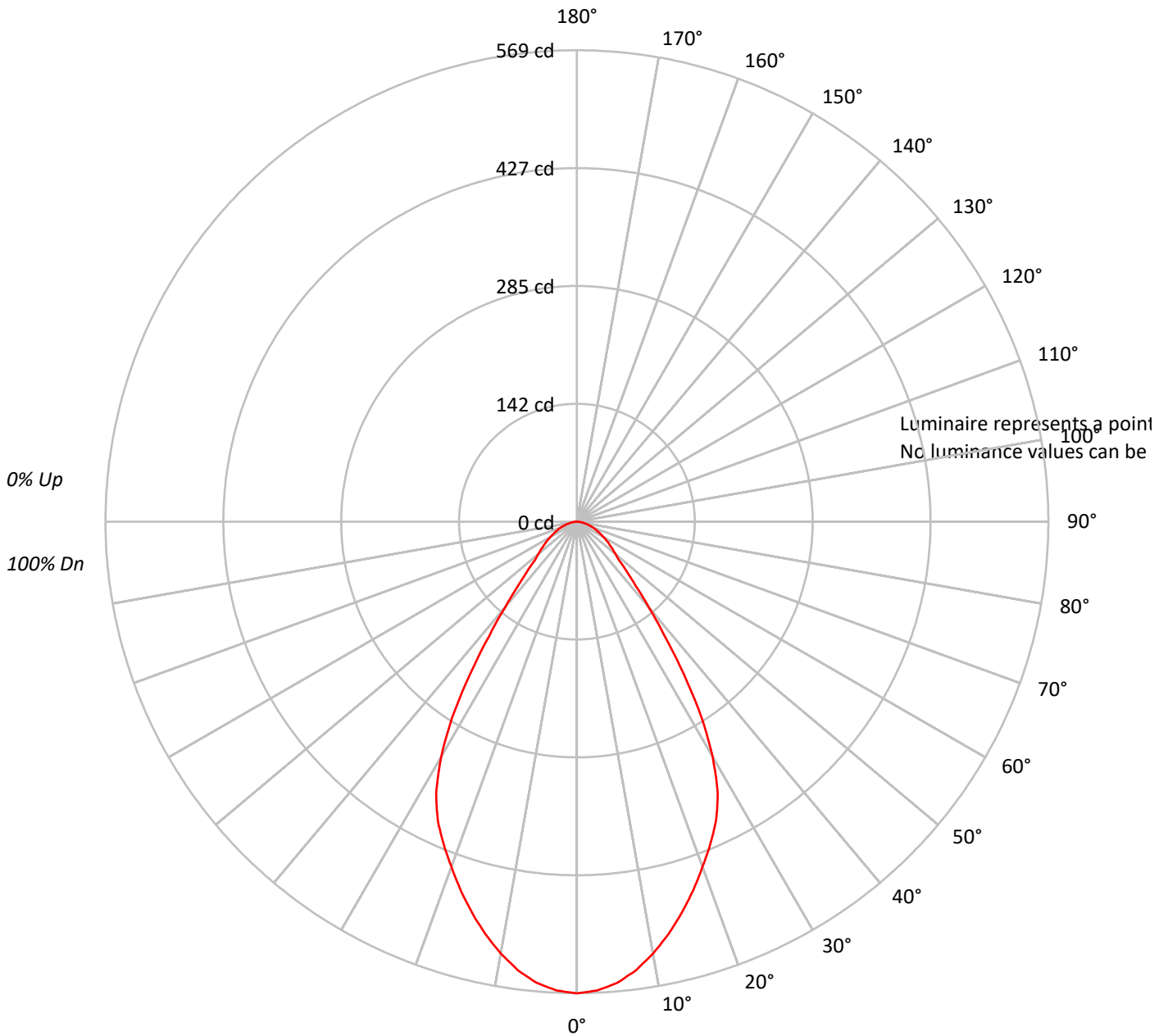
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211047

CATALOG NUMBER: LSR4B10D010BZ EC4B10209050 4LBNMW1

Luminous Intensity Polar Plot





TEST NUMBER: P211047

CATALOG NUMBER: LSR4B10D010BZ EC4B10209050 4LBNMW1

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73		
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56		
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48		
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211047

CATALOG NUMBER: LSR4B10D010BZ EC4B10209050 4LBNMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	7.8
10°-20°	137.0	20.5
20°-30°	180.4	27.0
30°-40°	140.4	21.0
40°-50°	68.2	10.2
50°-60°	43.1	6.5
60°-70°	27.8	4.2
70°-80°	14.5	2.2
80°-90°	3.6	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°	369.8	55.4
0°-40°	510.2	76.4
0°-60°	621.5	93.1
0°-90°	667.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	667.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	569	
5°	559	52
15°	489	137
25°	398	180
35°	225	140
45°	85	68
55°	48	43
65°	28	28
75°	14	15
85°	3	4
90°	0	



TEST NUMBER: P211047

CATALOG NUMBER: LSR4B10D010BZ EC4B10209050 4LBNMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	569.4
2.5°	566.2
5°	558.8
7.5°	546.0
10°	529.1
12.5°	510.0
15°	488.8
17.5°	466.5
20°	443.2
22.5°	420.9
25°	397.6
27.5°	367.9
30°	327.6
32.5°	279.9
35°	224.8
37.5°	173.9
40°	134.7
42.5°	105.0
45°	84.8
47.5°	68.9
50°	60.4
52.5°	54.1
55°	47.7
57.5°	42.4
60°	37.1
62.5°	31.8
65°	27.6
67.5°	24.4
70°	20.1
72.5°	17.0
75°	13.8
77.5°	10.6
80°	7.4
82.5°	5.3
85°	3.2
87.5°	1.1
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)