

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: P212555

Luminaire Tested: **LSR4B40D010BZ EC4B30509050 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212555
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: LSR4B40D010BZ EC4B30509050 4LBNMW1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W
DL3-44.71W DLE-39.33W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2541.4 lumens
Efficiency: N/A
Efficacy: 60.8 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

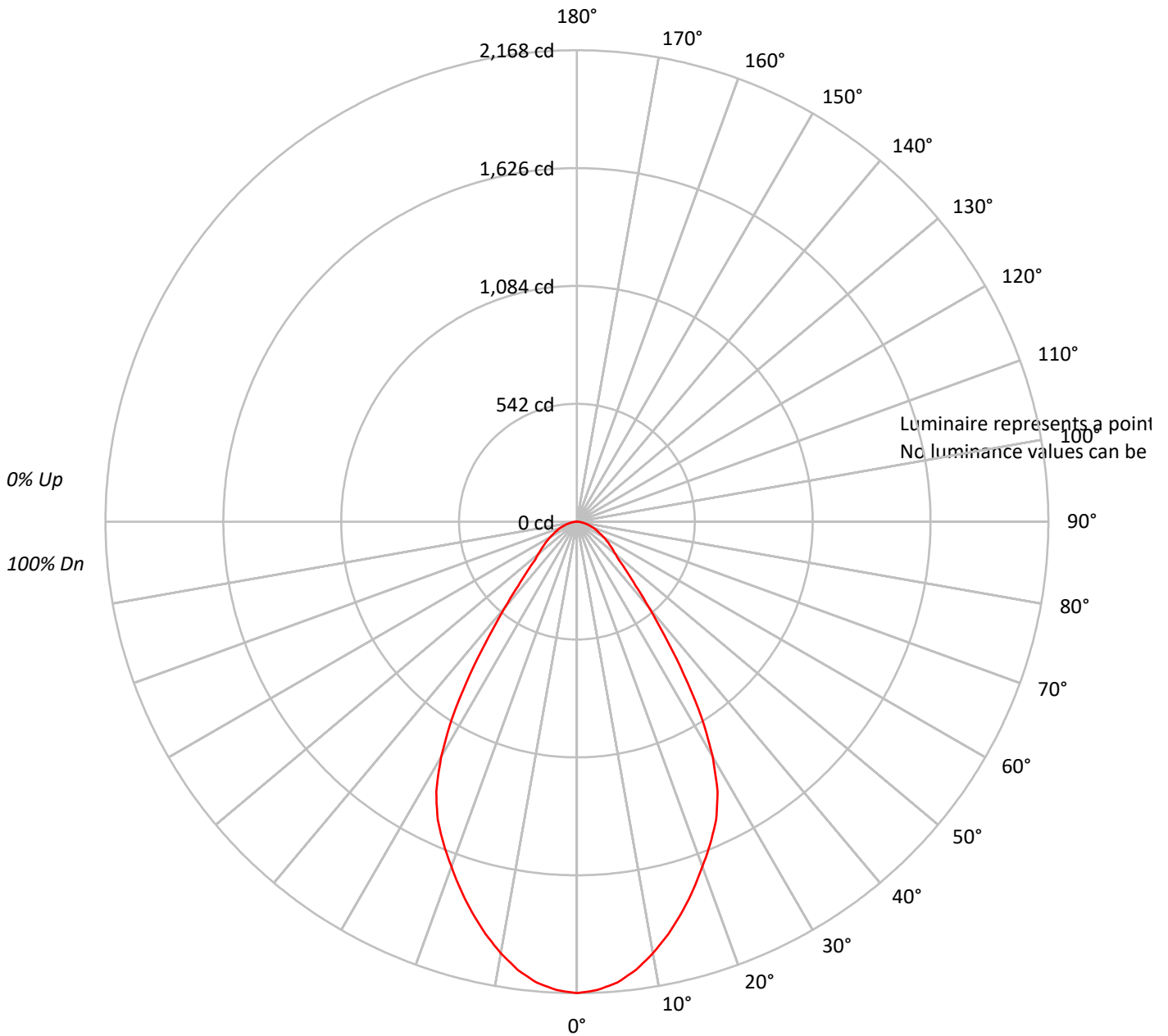
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212555

CATALOG NUMBER: LSR4B40D010BZ EC4B30509050 4LBNMW1

Luminous Intensity Polar Plot





TEST NUMBER: P212555

CATALOG NUMBER: LSR4B40D010BZ EC4B30509050 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	0
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: P212555

CATALOG NUMBER: LSR4B40D010BZ EC4B30509050 4LBNMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	7.8
10°-20°	521.8	20.5
20°-30°	686.8	27.0
30°-40°	534.7	21.0
40°-50°	259.7	10.2
50°-60°	164.0	6.5
60°-70°	105.8	4.2
70°-80°	55.4	2.2
80°-90°	13.7	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°	1408.2	55.4
0°-40°	1942.8	76.4
0°-60°	2366.5	93.1
0°-90°	2541.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2541.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2168	
5°	2128	199
15°	1861	522
25°	1514	687
35°	856	535
45°	323	260
55°	182	164
65°	105	106
75°	52	55
85°	12	14
90°	0	



TEST NUMBER: P212555

CATALOG NUMBER: LSR4B40D010BZ EC4B30509050 4LBNMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	2168.1
2.5°	2155.9
5°	2127.7
7.5°	2079.2
10°	2014.6
12.5°	1942.0
15°	1861.2
17.5°	1776.4
20°	1687.6
22.5°	1602.8
25°	1514.0
27.5°	1401.0
30°	1247.5
32.5°	1065.9
35°	855.9
37.5°	662.1
40°	512.7
42.5°	399.7
45°	323.0
47.5°	262.4
50°	230.1
52.5°	205.9
55°	181.7
57.5°	161.5
60°	141.3
62.5°	121.1
65°	105.0
67.5°	92.9
70°	76.7
72.5°	64.6
75°	52.5
77.5°	40.4
80°	28.3
82.5°	20.2
85°	12.1
87.5°	4.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)