

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: P212350

Luminaire Tested: **LSR4B40D010BZ EC4B30509030 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212350
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 EC4B30509030 4LBNH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 2181.7 lumens
Efficiency: N/A
Efficacy: 52.2 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

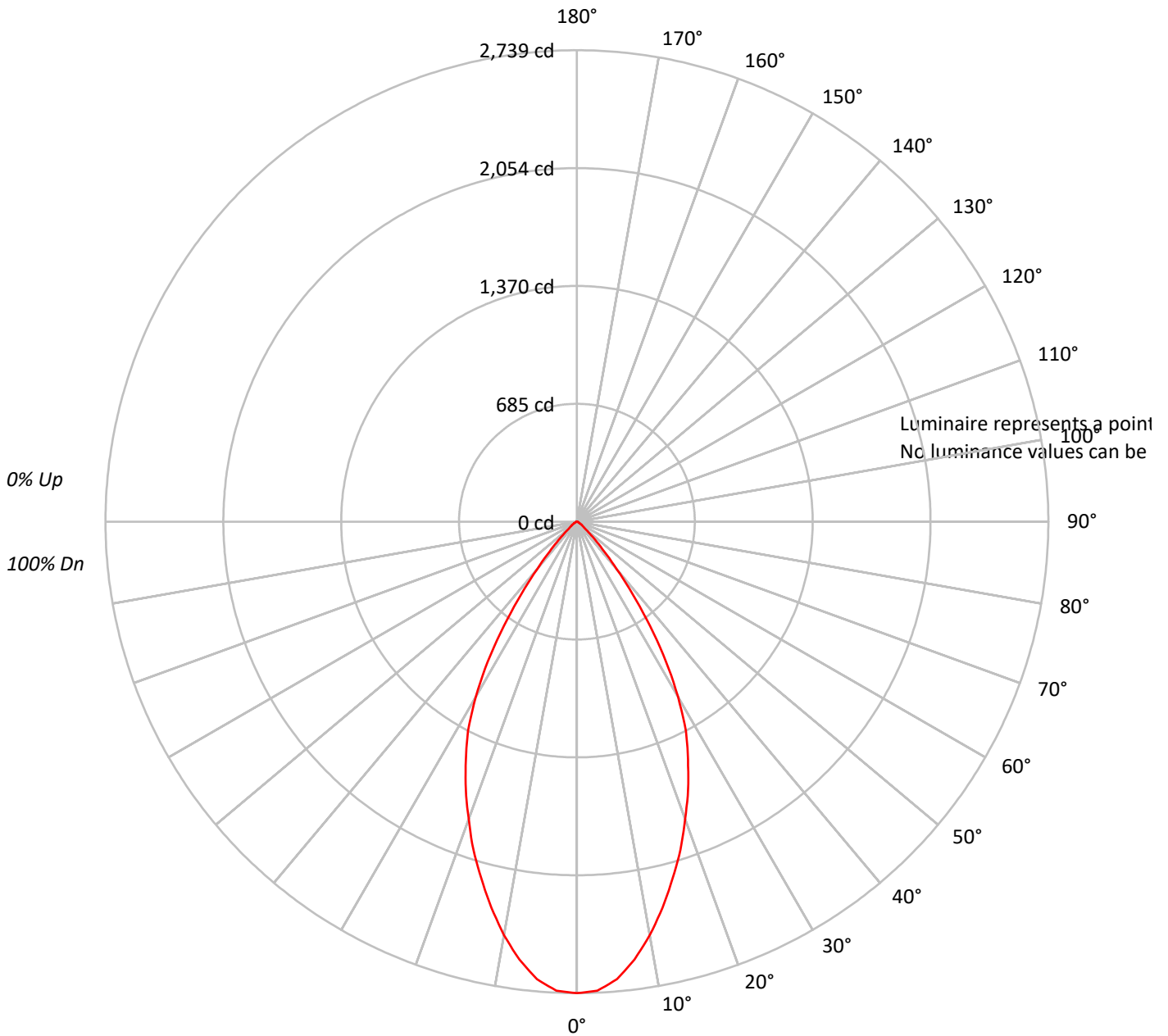
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212350

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBNH1

Luminous Intensity Polar Plot





TEST NUMBER: P212350

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBNH1

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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P212350

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBNH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	11.3
10°-20°	599.5	27.5
20°-30°	696.0	31.9
30°-40°	460.9	21.1
40°-50°	129.3	5.9
50°-60°	32.5	1.5
60°-70°	12.2	0.6
70°-80°	4.2	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°	1542.6	70.7
0°-40°	2003.5	91.8
0°-60°	2165.3	99.2
0°-90°	2181.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2739	
5°	2668	247
15°	2146	599
25°	1526	696
35°	739	461
45°	150	129
55°	36	33
65°	12	12
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P212350

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBNH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	2739.1
2.5°	2727.3
5°	2668.0
7.5°	2565.2
10°	2438.7
12.5°	2296.4
15°	2146.2
17.5°	2000.0
20°	1837.9
22.5°	1687.7
25°	1525.7
27.5°	1371.5
30°	1173.9
32.5°	964.4
35°	739.1
37.5°	529.6
40°	359.7
42.5°	233.2
45°	150.2
47.5°	90.9
50°	59.3
52.5°	43.5
55°	35.6
57.5°	27.7
60°	19.8
62.5°	15.8
65°	11.9
67.5°	7.9
70°	7.9
72.5°	4.0
75°	4.0
77.5°	4.0
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)