

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: P211125

Luminaire Tested: **LSR4B15D010BZ EC4B10209027 4LBMGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211125
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: LSR4B15D010BZ EC4B10209027 4LBMGPH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH GRAPHITE HAZE TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 663.2 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

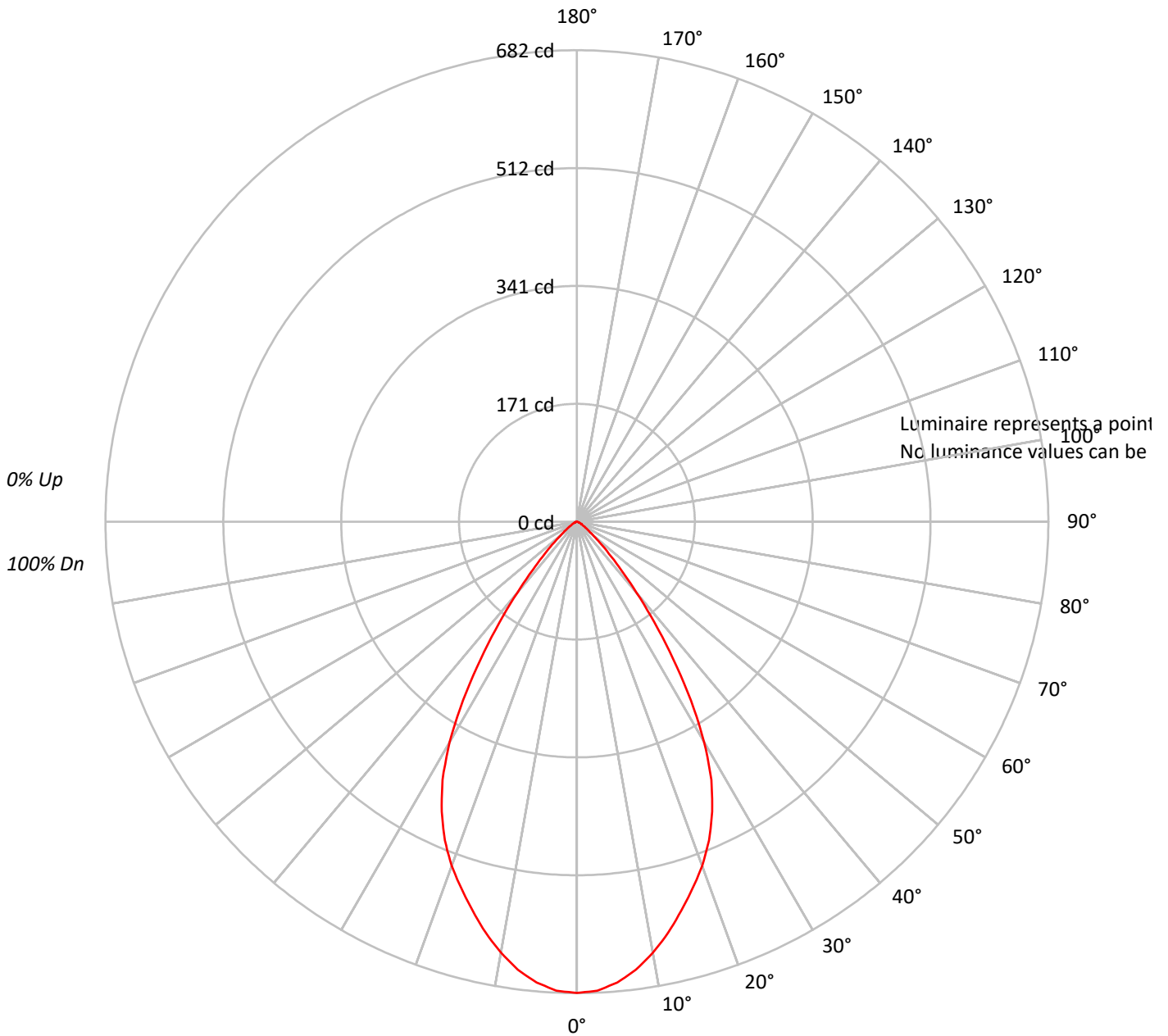
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86	86	86	86
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73	73	73	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68	68	68	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63	63	63	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59	59	59	59
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55	55	55	55
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51	51	51	51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	52	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	9.5
10°-20°	163.6	24.7
20°-30°	209.8	31.6
30°-40°	151.7	22.9
40°-50°	54.4	8.2
50°-60°	14.7	2.2
60°-70°	4.8	0.7
70°-80°	1.5	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°	436.2	65.8
0°-40°	587.8	88.6
0°-60°	656.9	99.1
0°-90°	663.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	663.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	682	
5°	669	63
15°	583	164
25°	463	210
35°	243	152
45°	66	54
55°	15	15
65°	4	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	681.8
2.5°	679.0
5°	669.2
7.5°	653.9
10°	633.0
12.5°	609.3
15°	582.8
17.5°	556.3
20°	529.8
22.5°	499.1
25°	462.9
27.5°	421.1
30°	368.1
32.5°	306.7
35°	242.6
37.5°	184.0
40°	133.8
42.5°	94.8
45°	65.5
47.5°	44.6
50°	29.3
52.5°	20.9
55°	15.3
57.5°	11.2
60°	8.4
62.5°	7.0
65°	4.2
67.5°	2.8
70°	2.8
72.5°	1.4
75°	1.4
77.5°	1.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)