

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: P211312

Luminaire Tested: **LSR4B15D010BZ EC4B10209035 4LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211312
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 EC4B10209035 4LBSGPH1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW 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: 1167.1 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

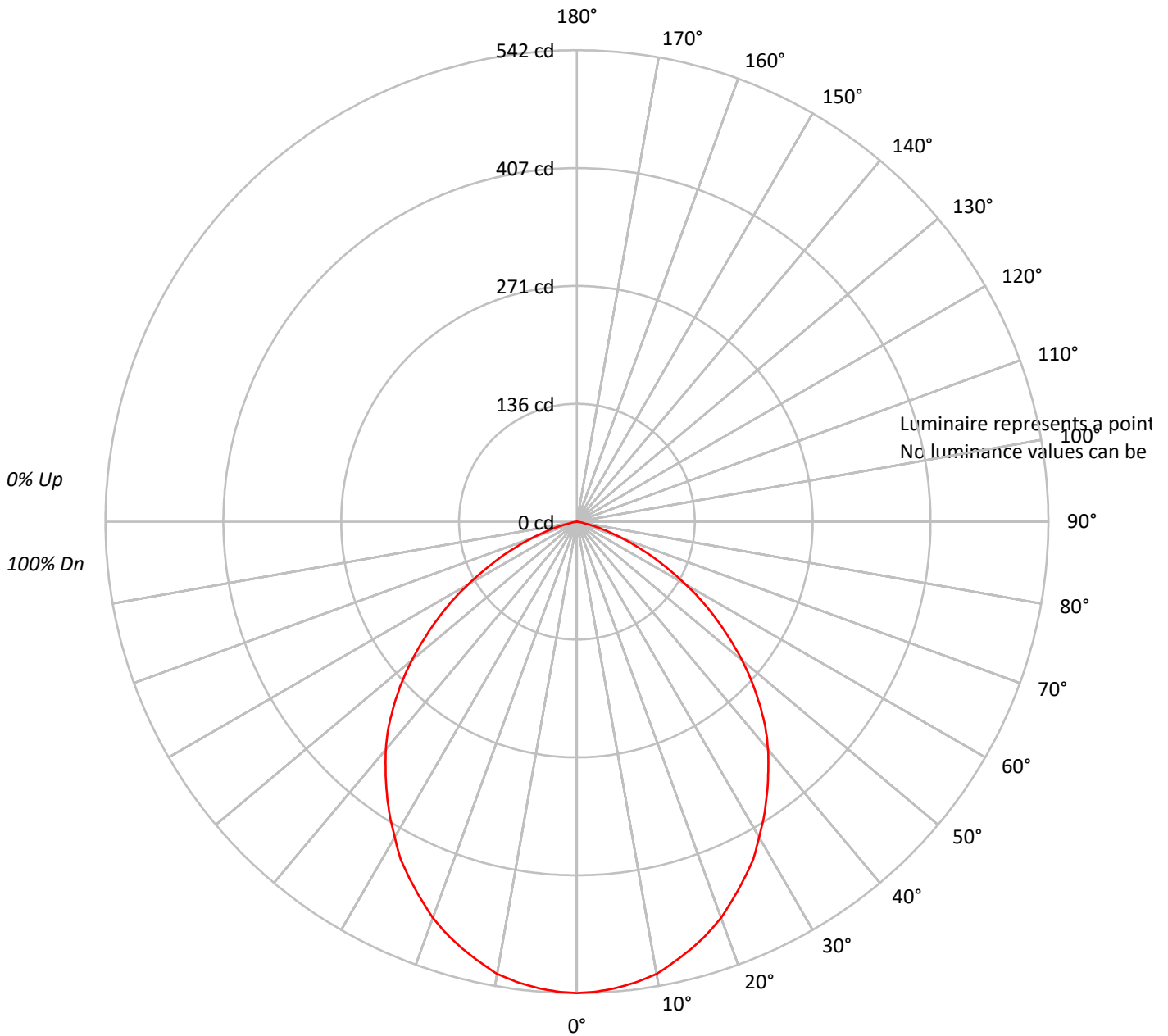
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88			88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76			76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			66
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57			57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50			50
6	74	62	54	48	73	61	53	48	59	52	47	58	52	47	56	51	47	45			45
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32			32
10	57	44	37	32	56	44	36	32	43	36	31	42	36	31	41	35	31	30			30

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	4.4
10°-20°	143.2	12.3
20°-30°	208.9	17.9
30°-40°	238.3	20.4
40°-50°	228.5	19.6
50°-60°	175.1	15.0
60°-70°	96.1	8.2
70°-80°	25.5	2.2
80°-90°	0.4	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°	403.2	34.5
0°-40°	641.5	55.0
0°-60°	1045.1	89.5
0°-90°	1167.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	542	
5°	538	51
15°	508	143
25°	454	209
35°	381	238
45°	297	229
55°	196	175
65°	97	96
75°	22	26
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	542.1
2.5°	540.7
5°	537.8
7.5°	533.6
10°	528.0
12.5°	518.2
15°	508.4
17.5°	497.2
20°	484.6
22.5°	469.2
25°	453.8
27.5°	438.4
30°	418.8
32.5°	400.6
35°	381.0
37.5°	361.4
40°	341.8
42.5°	320.7
45°	296.9
47.5°	273.1
50°	247.9
52.5°	221.3
55°	196.1
57.5°	170.9
60°	144.3
62.5°	119.1
65°	96.6
67.5°	74.2
70°	54.6
72.5°	36.4
75°	22.4
77.5°	9.8
80°	2.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)