

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: P211331

Luminaire Tested: **LSR4B15D010BZ EC4B10208040 4LBMMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211331
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 EC4B10208040 4LBMMW1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH MATTE WHITE 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: 1212.2 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

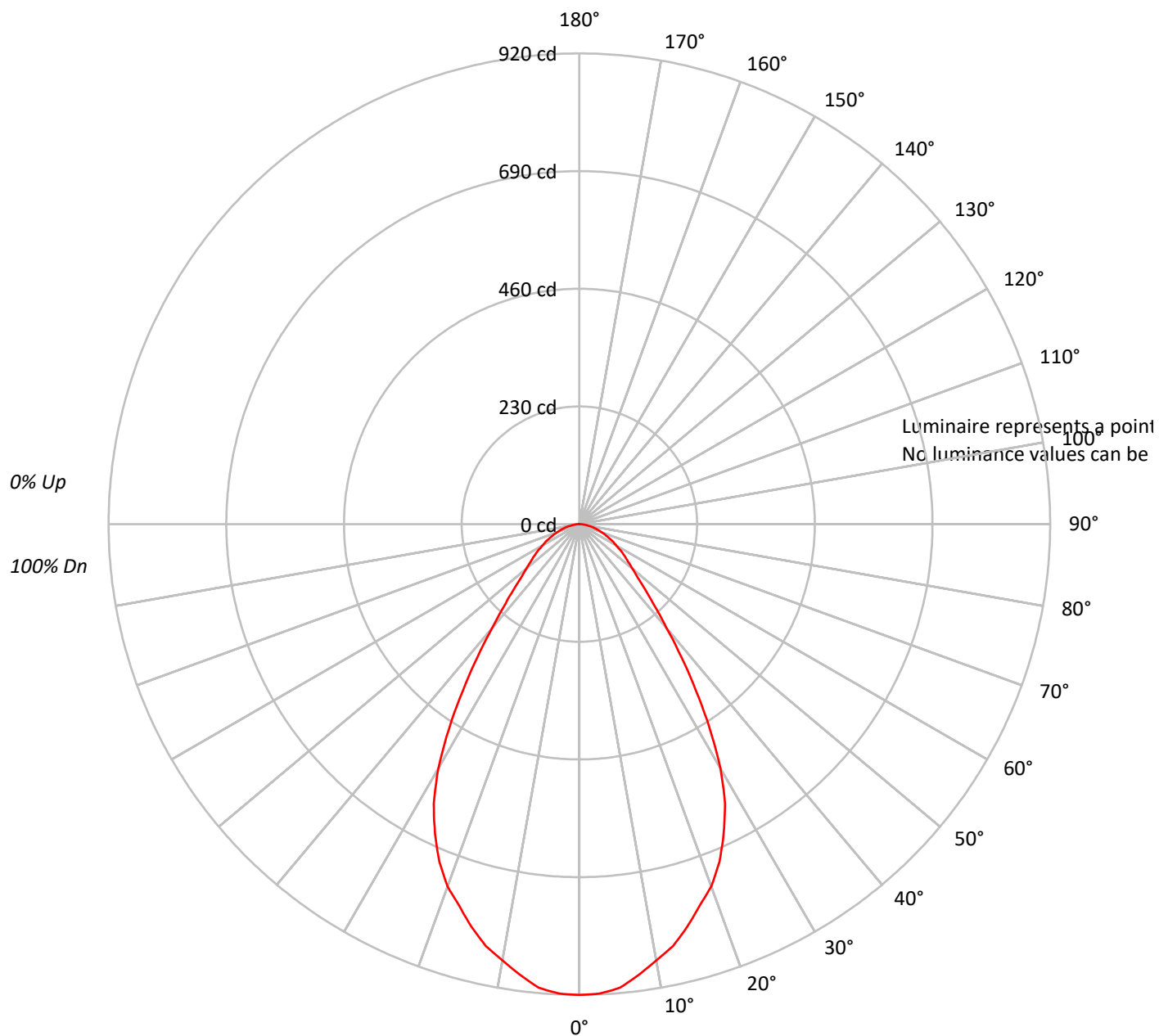
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	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			100
1	112	108	105	102		109	106	103	100		102	99	97			98	96	94			89
2	104	98	92	88		102	96	91	87		93	89	85			89	86	83			80
3	97	89	83	77		95	87	82	77		85	80	76			82	78	74			71
4	91	81	74	69		89	80	74	69		78	72	68			76	71	67			64
5	85	75	67	62		83	74	67	62		72	66	61			70	65	61			58
6	80	69	62	56		78	68	61	56		66	60	56			65	59	55			53
7	75	64	57	52		74	63	56	51		62	56	51			60	55	51			49
8	71	59	52	47		69	59	52	47		58	51	47			56	51	47			45
9	67	55	48	44		66	55	48	44		54	48	44			53	47	43			42
10	63	52	45	41		62	51	45	41		51	45	40			50	44	40			39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	7.0
10°-20°	228.7	18.9
20°-30°	304.0	25.1
30°-40°	248.7	20.5
40°-50°	144.8	11.9
50°-60°	96.0	7.9
60°-70°	63.2	5.2
70°-80°	33.3	2.8
80°-90°	8.1	0.7
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°	618.0	51.0
0°-40°	866.7	71.5
0°-60°	1107.5	91.4
0°-90°	1212.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	920	
5°	910	85
15°	815	229
25°	667	304
35°	397	249
45°	183	145
55°	107	96
65°	63	63
75°	32	33
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	920.2
2.5°	918.5
5°	909.7
7.5°	888.6
10°	865.8
12.5°	844.7
15°	814.8
17.5°	781.5
20°	753.4
22.5°	714.7
25°	667.3
27.5°	616.4
30°	551.4
32.5°	474.2
35°	396.9
37.5°	326.6
40°	265.2
42.5°	217.8
45°	182.6
47.5°	154.5
50°	135.2
52.5°	119.4
55°	107.1
57.5°	94.8
60°	82.5
62.5°	73.8
65°	63.2
67.5°	54.4
70°	45.7
72.5°	38.6
75°	31.6
77.5°	24.6
80°	17.6
82.5°	12.3
85°	7.0
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)