

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: P211105

Luminaire Tested: **LSR4B15D010BZ EC4B10208027 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211105
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 EC4B10208027 4LBNMW1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 1020.6 lumens
Efficiency: N/A
Efficacy: 71.4 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

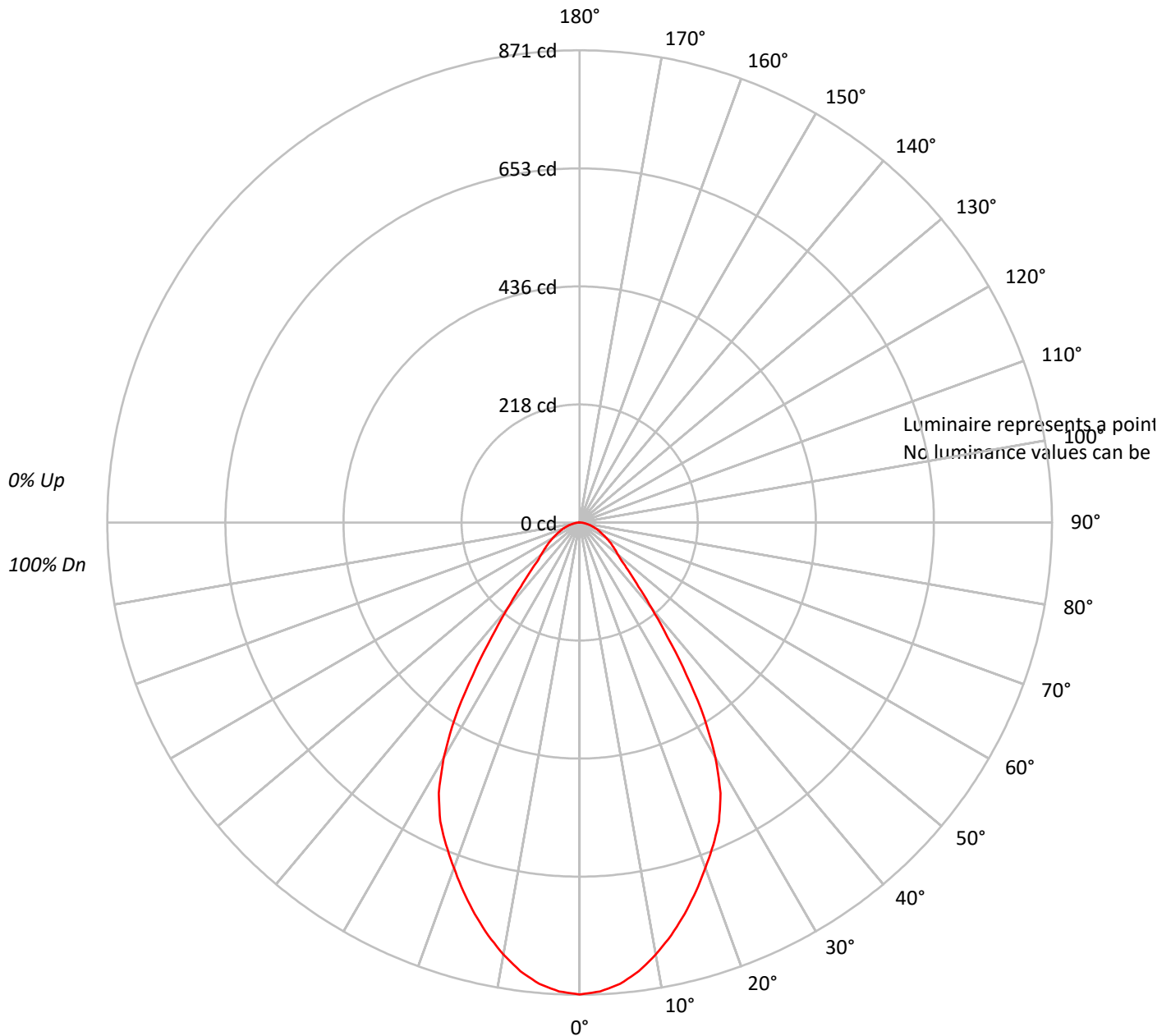
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	105	103		109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90		103	97	93	89		94	90	87		91	88	85		88	85	83
3	98	90	84	80		96	89	83	79		86	82	78		84	80	76		81	78	75
4	92	83	76	71		90	82	76	71		80	74	70		78	73	69		76	72	68
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	63
6	82	71	64	59		80	70	64	59		69	63	58		67	62	58		66	61	58
7	77	66	59	54		75	65	59	54		64	58	54		63	57	53		62	57	53
8	73	62	55	50		71	61	55	50		60	54	50		59	53	49		58	53	49
9	69	58	51	46		68	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43		64	54	47	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	7.8
10°-20°	209.6	20.5
20°-30°	275.8	27.0
30°-40°	214.7	21.0
40°-50°	104.3	10.2
50°-60°	65.9	6.5
60°-70°	42.5	4.2
70°-80°	22.2	2.2
80°-90°	5.5	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°	565.5	55.4
0°-40°	780.2	76.4
0°-60°	950.4	93.1
0°-90°	1020.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1020.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	871	
5°	854	80
15°	748	210
25°	608	276
35°	344	215
45°	130	104
55°	73	66
65°	42	42
75°	21	22
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	870.7
2.5°	865.8
5°	854.5
7.5°	835.0
10°	809.1
12.5°	779.9
15°	747.5
17.5°	713.4
20°	677.8
22.5°	643.7
25°	608.0
27.5°	562.6
30°	501.0
32.5°	428.1
35°	343.7
37.5°	265.9
40°	205.9
42.5°	160.5
45°	129.7
47.5°	105.4
50°	92.4
52.5°	82.7
55°	73.0
57.5°	64.9
60°	56.7
62.5°	48.6
65°	42.2
67.5°	37.3
70°	30.8
72.5°	25.9
75°	21.1
77.5°	16.2
80°	11.3
82.5°	8.1
85°	4.9
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)