

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: P211367

Luminaire Tested: **LSR4B15D010BZ EC4B10209040 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211367
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 EC4B10209040 4LBNWH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH WHEAT 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: 852.2 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

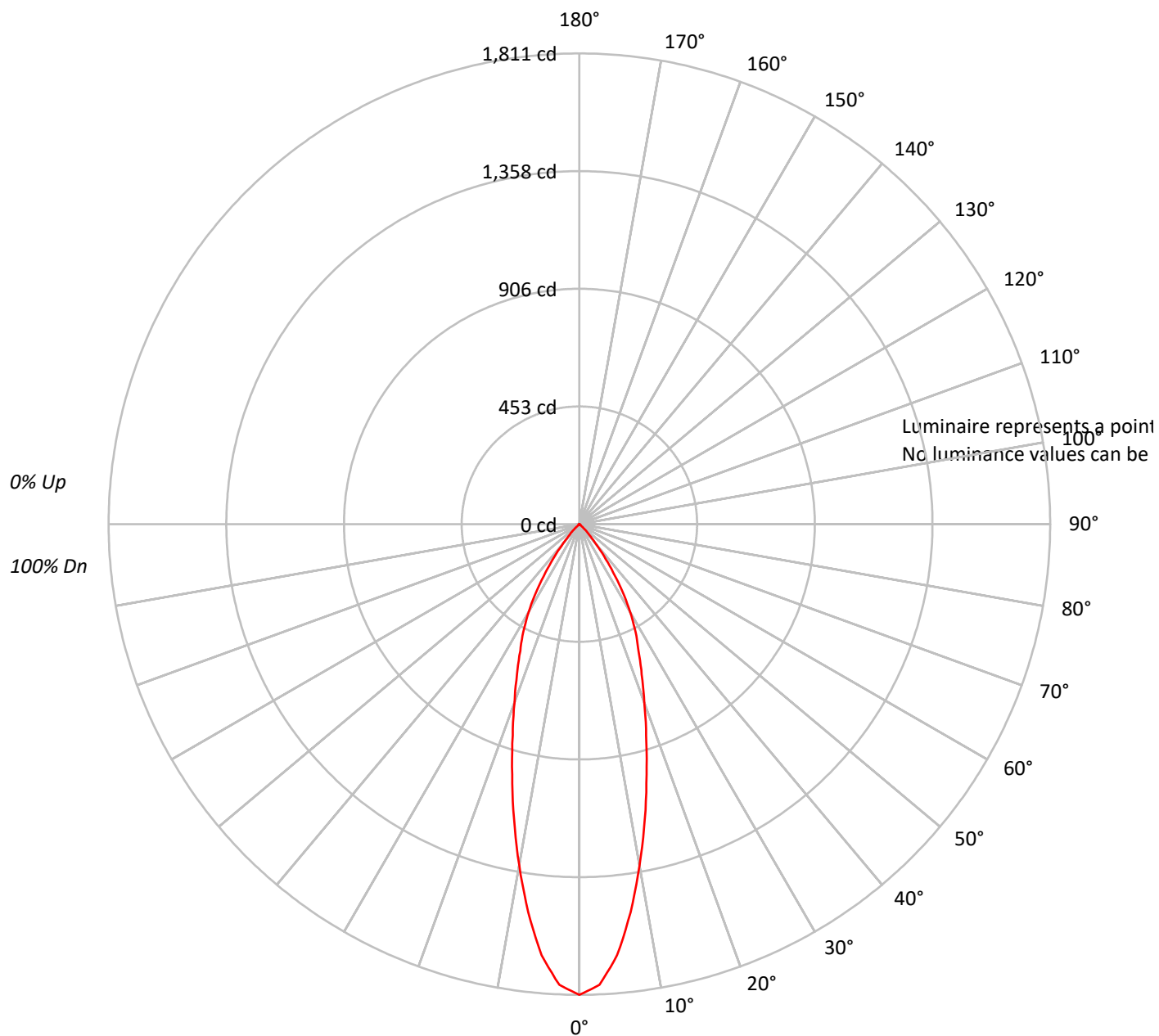
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	114	111	109	107	112	109	107	105		105	104	102		102	100	99		98	97	96
2	109	105	101	98	107	103	100	97		100	97	95		97	95	93		94	92	91
3	104	98	94	90	102	97	93	90		94	91	88		92	89	87		90	87	85
4	100	93	88	84	98	92	87	83		90	86	82		88	84	82		86	83	81
5	95	88	82	78	94	87	82	78		85	81	77		83	80	77		82	79	76
6	91	83	78	74	90	82	77	74		81	76	73		79	76	73		78	75	72
7	87	79	73	70	86	78	73	69		77	72	69		76	72	69		75	71	68
8	84	75	70	66	82	74	69	66		73	69	65		72	68	65		71	68	65
9	80	71	66	62	79	71	66	62		70	65	62		69	65	62		68	65	62
10	77	68	63	59	76	68	63	59		67	62	59		66	62	59		66	62	59

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	17.4
10°-20°	277.8	32.6
20°-30°	249.3	29.3
30°-40°	143.0	16.8
40°-50°	28.5	3.3
50°-60°	3.6	0.4
60°-70°	1.7	0.2
70°-80°	0.2	0.0
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°	675.2	79.2
0°-40°	818.2	96.0
0°-60°	850.4	99.8
0°-90°	852.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1811	
5°	1666	148
15°	998	278
25°	538	249
35°	227	143
45°	31	29
55°	4	4
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1811.1
2.5°	1774.4
5°	1665.5
7.5°	1506.6
10°	1333.0
12.5°	1162.3
15°	997.5
17.5°	853.3
20°	729.8
22.5°	626.8
25°	538.5
27.5°	467.9
30°	389.9
32.5°	310.4
35°	226.6
37.5°	154.5
40°	95.6
42.5°	57.4
45°	30.9
47.5°	13.2
50°	5.9
52.5°	4.4
55°	4.4
57.5°	2.9
60°	2.9
62.5°	1.5
65°	1.5
67.5°	1.5
70°	1.5
72.5°	0.0
75°	0.0
77.5°	0.0
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)