

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: P211249

Luminaire Tested: **LSR4B15D010BZ EC4B10209730 4LBNI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211249
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 EC4B10209730 4LBNLI1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SPECULAR CLEAR 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: 821.3 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

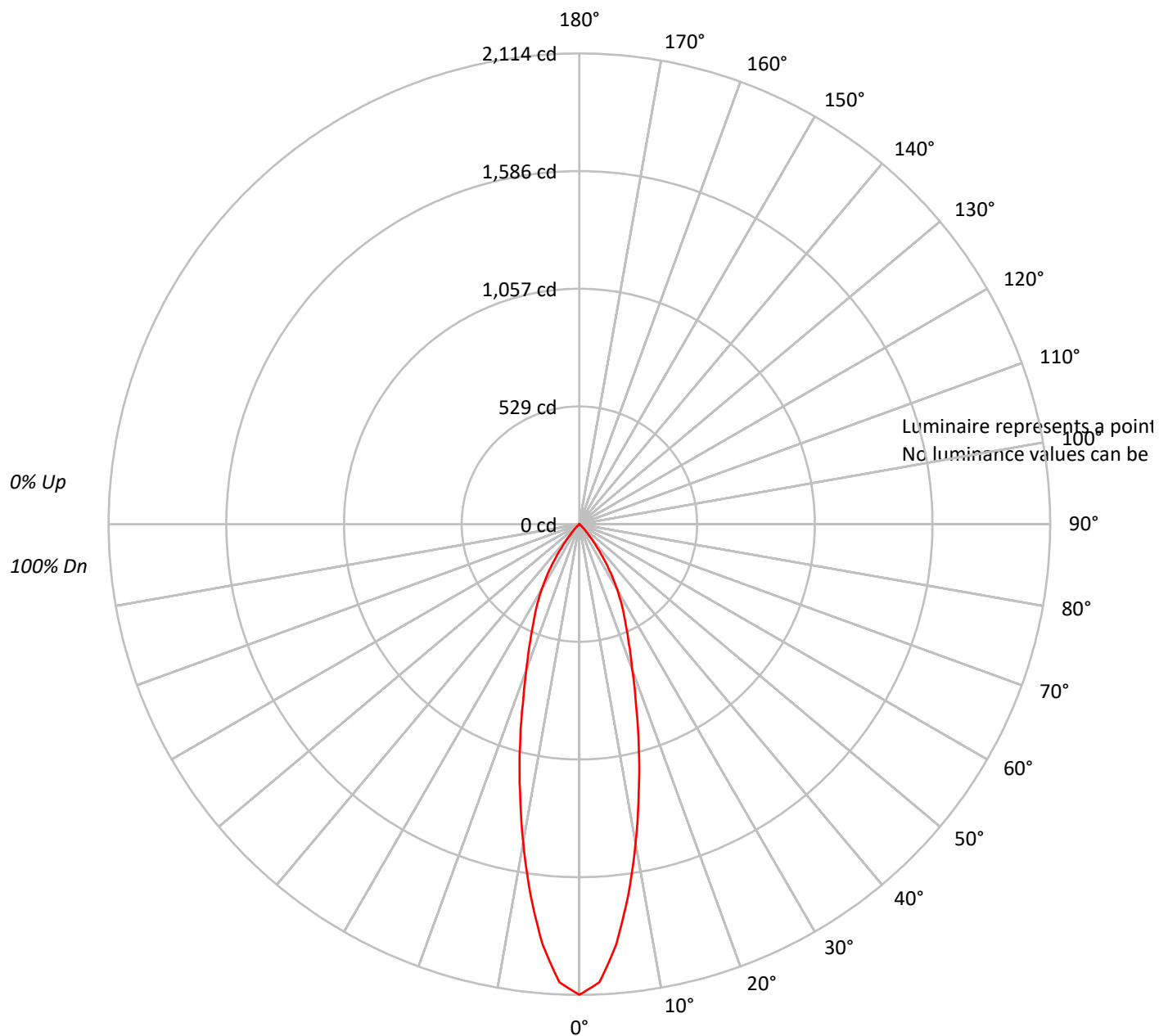
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	112	110	108	112	110	108	106		106	104	103			102	101	100			99
2	109	105	102	99	107	103	100	98		100	98	95			97	95	93			95
3	105	99	95	92	103	98	94	91		95	92	89			93	90	88			91
4	101	94	89	86	99	93	88	85		91	87	84			89	86	83			87
5	96	89	84	80	95	88	84	80		87	82	79			85	81	79			83
6	92	85	80	76	91	84	79	76		83	78	75			81	78	75			80
7	89	81	76	72	88	80	75	72		79	75	71			78	74	71			77
8	85	77	72	68	84	77	72	68		76	71	68			75	71	68			74
9	82	74	69	65	81	73	68	65		72	68	65			72	68	65			71
10	79	71	66	62	78	70	65	62		69	65	62			69	65	62			68

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	20.3
10°-20°	285.2	34.7
20°-30°	226.6	27.6
30°-40°	120.0	14.6
40°-50°	20.7	2.5
50°-60°	1.6	0.2
60°-70°	0.8	0.1
70°-80°	0.0	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°	678.4	82.6
0°-40°	798.3	97.2
0°-60°	820.6	99.9
0°-90°	821.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	821.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2114	
5°	1895	167
15°	1031	285
25°	488	227
35°	190	120
45°	22	21
55°	1	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2113.7
2.5°	2059.3
5°	1894.9
7.5°	1679.8
10°	1452.1
12.5°	1232.0
15°	1030.9
17.5°	843.7
20°	694.4
22.5°	580.6
25°	488.3
27.5°	413.6
30°	339.0
32.5°	263.1
35°	189.7
37.5°	125.2
40°	74.6
42.5°	43.0
45°	21.5
47.5°	7.6
50°	2.5
52.5°	2.5
55°	1.3
57.5°	1.3
60°	1.3
62.5°	1.3
65°	1.3
67.5°	0.0
70°	0.0
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)