

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: P211164

Luminaire Tested: **LSR4B15D010BZ EC4B10209727 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211164
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 EC4B10209727 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: 701.1 lumens
Efficiency: N/A
Efficacy: 49.0 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

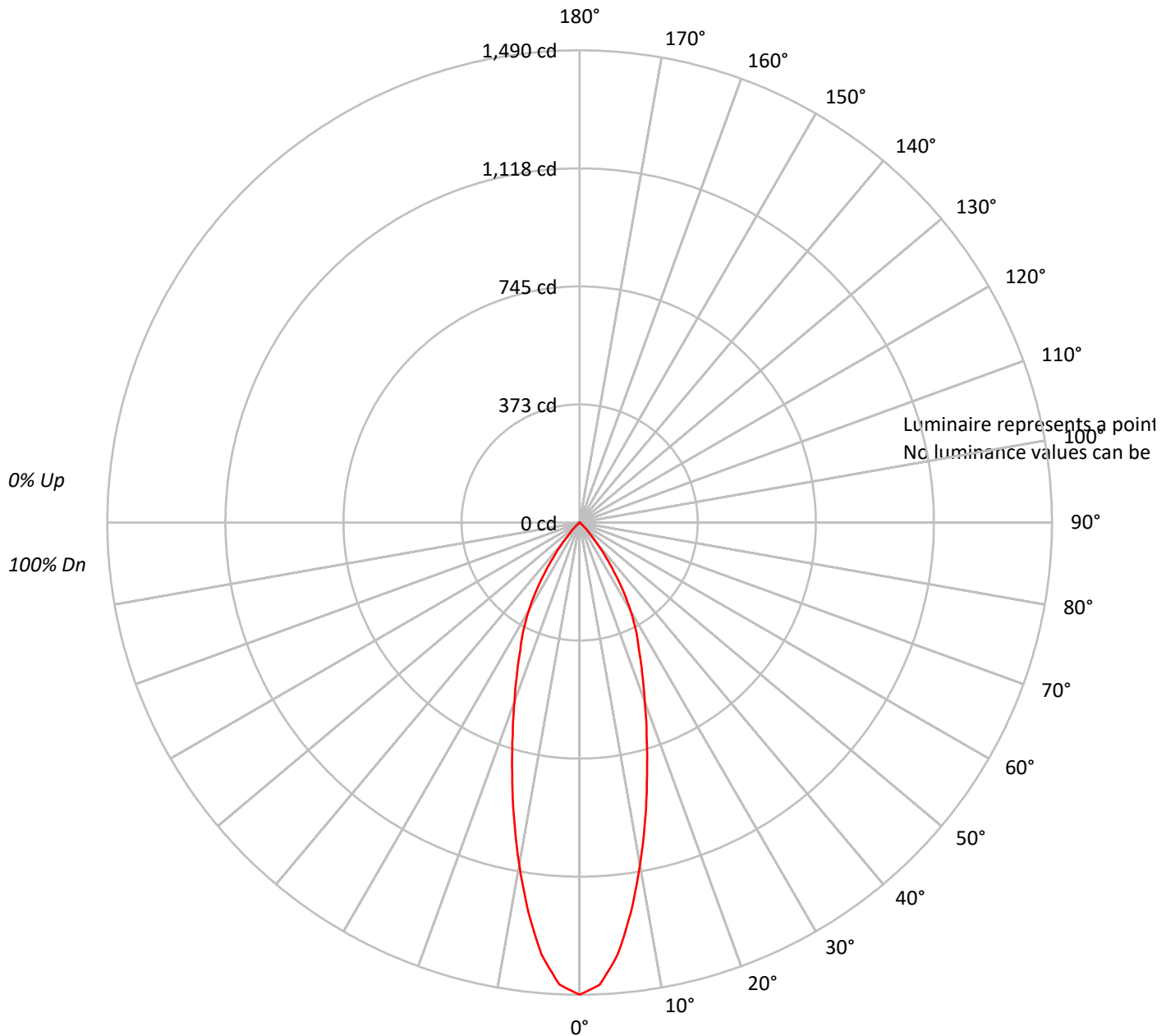
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	111	109	107		112	109	107	105		105	104	102			102	100	99			95
2	109	105	101	98		107	103	100	97		100	97	95			97	95	93			89
3	104	98	94	90		102	97	93	90		94	91	88			92	89	87			84
4	100	93	88	84		98	92	87	83		90	86	82			88	84	82			79
5	95	88	82	78		94	87	82	78		85	81	77			83	80	77			75
6	91	83	78	74		90	82	77	74		81	76	73			79	76	73			71
7	87	79	73	70		86	78	73	69		77	72	69			76	72	69			67
8	84	75	70	66		82	74	69	66		73	69	65			72	68	65			64
9	80	71	66	62		79	71	66	62		70	65	62			69	65	62			61
10	77	68	63	59		76	68	63	59		67	62	59			66	62	59			58

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	17.4
10°-20°	228.6	32.6
20°-30°	205.1	29.3
30°-40°	117.7	16.8
40°-50°	23.5	3.3
50°-60°	2.9	0.4
60°-70°	1.3	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°	555.5	79.2
0°-40°	673.2	96.0
0°-60°	699.6	99.8
0°-90°	701.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1490	
5°	1370	122
15°	821	229
25°	443	205
35°	186	118
45°	25	23
55°	4	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1490.1
2.5°	1459.9
5°	1370.3
7.5°	1239.6
10°	1096.7
12.5°	956.3
15°	820.7
17.5°	702.1
20°	600.4
22.5°	515.7
25°	443.0
27.5°	384.9
30°	320.8
32.5°	255.4
35°	186.4
37.5°	127.1
40°	78.7
42.5°	47.2
45°	25.4
47.5°	10.9
50°	4.8
52.5°	3.6
55°	3.6
57.5°	2.4
60°	2.4
62.5°	1.2
65°	1.2
67.5°	1.2
70°	1.2
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)