

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: P211071

Luminaire Tested: **LSR4B15D010BZ EC4B10209024 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211071
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 EC4B10209024 4LBMWH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 829.8 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

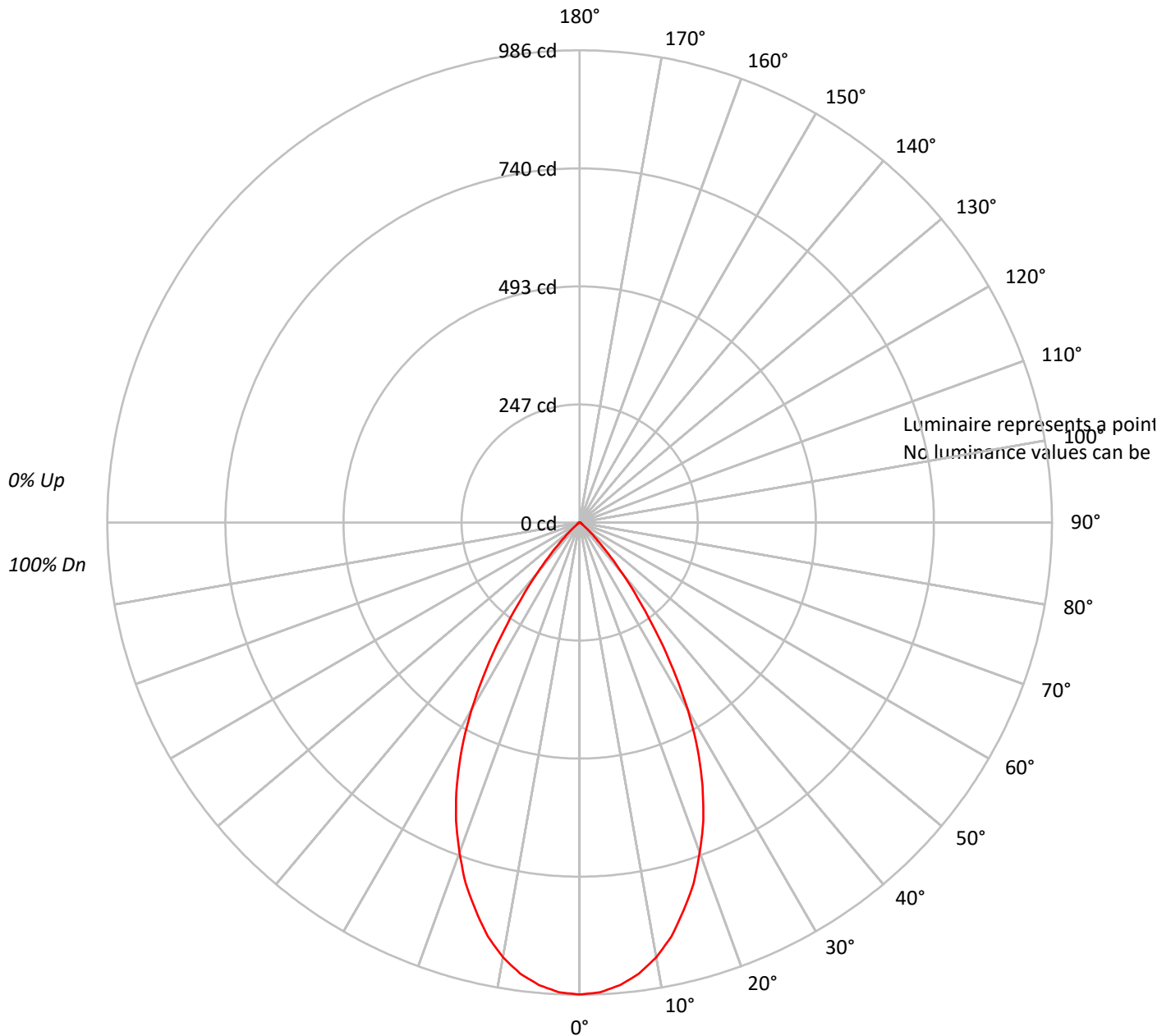
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106		111	109	106	105		105	103	101			101	100	98			94
2	108	103	99	96		106	102	98	95		98	95	93			95	93	91			87
3	103	96	91	88		101	95	90	87		92	89	85			90	87	84			81
4	98	90	85	81		96	89	84	80		87	83	79			85	81	78			76
5	93	84	79	74		91	84	78	74		82	77	73			80	76	73			71
6	88	79	73	69		87	79	73	69		77	72	68			76	71	68			66
7	84	75	69	65		82	74	68	64		73	68	64			72	67	64			62
8	80	70	64	60		79	70	64	60		69	64	60			68	63	60			58
9	76	66	61	57		75	66	60	57		65	60	56			64	60	56			55
10	73	63	57	53		72	62	57	53		62	57	53			61	56	53			52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	11.0
10°-20°	234.1	28.2
20°-30°	274.6	33.1
30°-40°	173.8	20.9
40°-50°	46.6	5.6
50°-60°	6.5	0.8
60°-70°	2.4	0.3
70°-80°	0.8	0.1
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°	599.8	72.3
0°-40°	773.6	93.2
0°-60°	826.6	99.6
0°-90°	829.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	829.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	986	
5°	970	91
15°	838	234
25°	607	275
35°	276	174
45°	53	47
55°	6	7
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	985.6
2.5°	981.9
5°	969.6
7.5°	950.0
10°	921.8
12.5°	885.1
15°	838.5
17.5°	790.7
20°	733.1
22.5°	674.2
25°	606.8
27.5°	533.2
30°	451.1
32.5°	361.6
35°	275.8
37.5°	199.8
40°	137.3
42.5°	88.3
45°	52.7
47.5°	29.4
50°	15.9
52.5°	8.6
55°	6.1
57.5°	4.9
60°	3.7
62.5°	3.7
65°	2.5
67.5°	1.2
70°	1.2
72.5°	1.2
75°	1.2
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)