

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: P211082

Luminaire Tested: **LSR4B15D010BZ EC4B10209024 4LBSLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211082
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 4LBSLI1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW 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: 1106.9 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

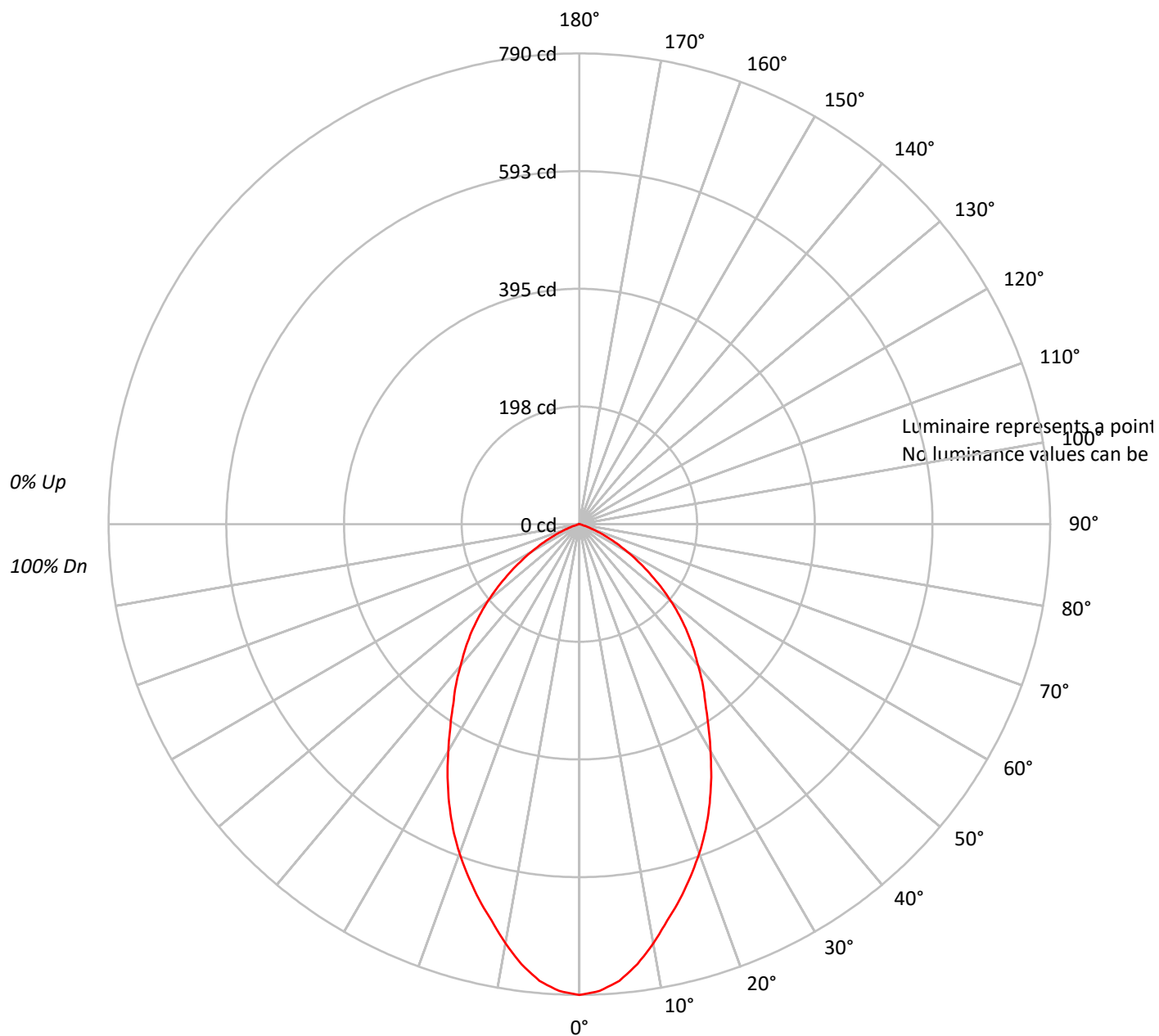
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102		109	106	103	101		102	100	98			98	96	95			90
2	104	98	93	88		102	96	91	87		93	89	85			90	86	84			80
3	97	89	82	77		95	87	81	77		84	79	75			82	78	74			71
4	90	81	73	68		88	79	73	68		77	71	67			75	70	66			63
5	84	73	66	61		82	72	65	60		70	64	60			69	63	59			57
6	79	67	60	54		77	66	59	54		65	58	54			63	58	53			51
7	74	62	54	49		72	61	54	49		60	53	49			58	53	48			46
8	69	57	50	45		68	57	50	45		55	49	45			54	49	44			42
9	65	53	46	41		64	53	46	41		52	45	41			51	45	41			39
10	61	50	43	38		60	49	42	38		48	42	38			47	42	38			36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	6.5
10°-20°	182.8	16.5
20°-30°	236.8	21.4
30°-40°	232.0	21.0
40°-50°	196.7	17.8
50°-60°	128.9	11.6
60°-70°	51.8	4.7
70°-80°	5.9	0.5
80°-90°	0.2	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°	491.3	44.4
0°-40°	723.3	65.3
0°-60°	1048.9	94.8
0°-90°	1106.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1106.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	790	
5°	770	72
15°	652	183
25°	517	237
35°	369	232
45°	256	197
55°	143	129
65°	50	52
75°	2	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	790.3
2.5°	784.2
5°	769.5
7.5°	745.0
10°	714.4
12.5°	681.3
15°	651.9
17.5°	620.0
20°	588.2
22.5°	553.9
25°	517.1
27.5°	479.1
30°	439.9
32.5°	403.1
35°	368.8
37.5°	340.6
40°	310.0
42.5°	283.1
45°	256.1
47.5°	227.9
50°	199.7
52.5°	171.5
55°	143.4
57.5°	117.6
60°	93.1
62.5°	71.1
65°	50.2
67.5°	33.1
70°	19.6
72.5°	8.6
75°	2.5
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)