

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: P211286

Luminaire Tested: **LSR4B15D010BZ EC4B10208035 4LBSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211286
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 EC4B10208035 4LBSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH MATTE WHITE 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: 1569.6 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

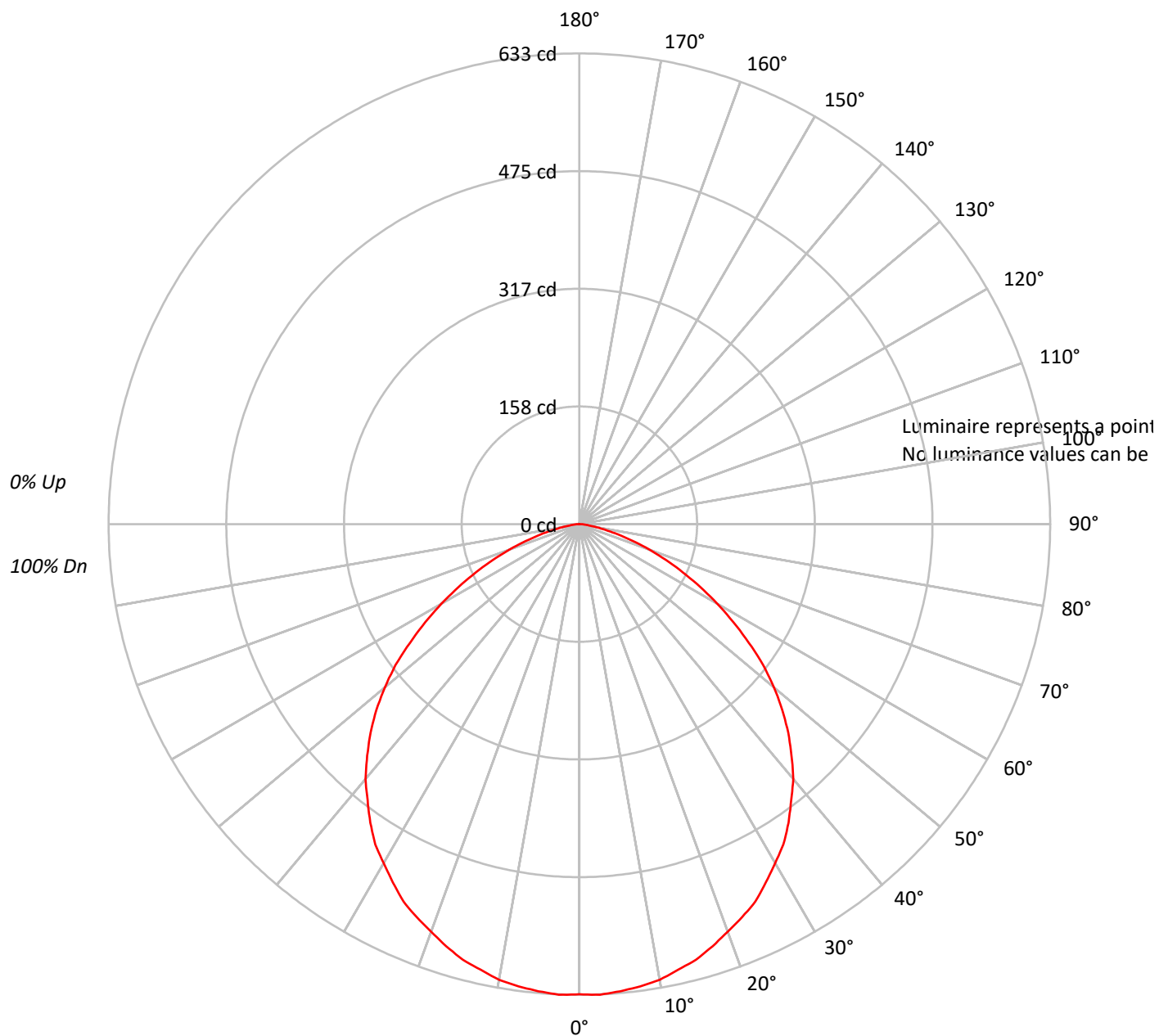
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





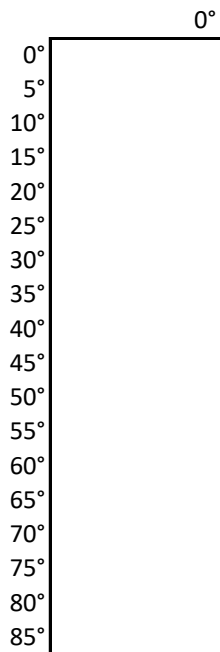
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	99		107	104	100	97		99	97	94		96	93	91		92	90	88
2	101	93	87	82		98	92	86	81		88	83	79		85	81	77		82	79	76
3	93	83	75	69		90	81	74	69		78	72	67		76	70	66		73	69	65
4	85	74	66	59		83	72	65	59		70	63	58		68	62	57		66	61	56
5	78	66	58	51		76	65	57	51		63	56	51		61	55	50		59	54	49
6	73	60	51	45		71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40		66	54	46	40		52	45	40		51	44	39		49	43	39
8	63	50	41	36		61	49	41	36		48	41	35		46	40	35		45	39	35
9	59	46	38	32		57	45	37	32		44	37	32		43	36	32		42	36	32
10	55	42	34	29		54	42	34	29		41	34	29		40	33	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.8
10°-20°	170.8	10.9
20°-30°	257.2	16.4
30°-40°	306.1	19.5
40°-50°	305.5	19.5
50°-60°	248.5	15.8
60°-70°	152.9	9.7
70°-80°	59.2	3.8
80°-90°	9.5	0.6
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°	488.0	31.1
0°-40°	794.1	50.6
0°-60°	1348.1	85.9
0°-90°	1569.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	632	
5°	631	60
15°	606	171
25°	560	257
35°	490	306
45°	397	306
55°	278	248
65°	154	153
75°	54	59
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	632.4
2.5°	633.4
5°	630.6
7.5°	626.9
10°	622.2
12.5°	613.8
15°	606.4
17.5°	595.2
20°	583.1
22.5°	572.0
25°	559.9
27.5°	543.1
30°	526.4
32.5°	510.6
35°	490.1
37.5°	467.8
40°	447.4
42.5°	422.2
45°	397.1
47.5°	370.2
50°	341.3
52.5°	311.6
55°	278.1
57.5°	245.5
60°	213.9
62.5°	183.2
65°	153.5
67.5°	125.6
70°	99.5
72.5°	75.3
75°	53.9
77.5°	35.3
80°	21.4
82.5°	13.0
85°	7.4
87.5°	3.7
90°	0.0



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— 0°-180°







(END OF REPORT)