

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: P211157

Luminaire Tested: **LSR4B15D010BZ EC4B10209727 4LBMMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211157
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 4LBMMW1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 835.5 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

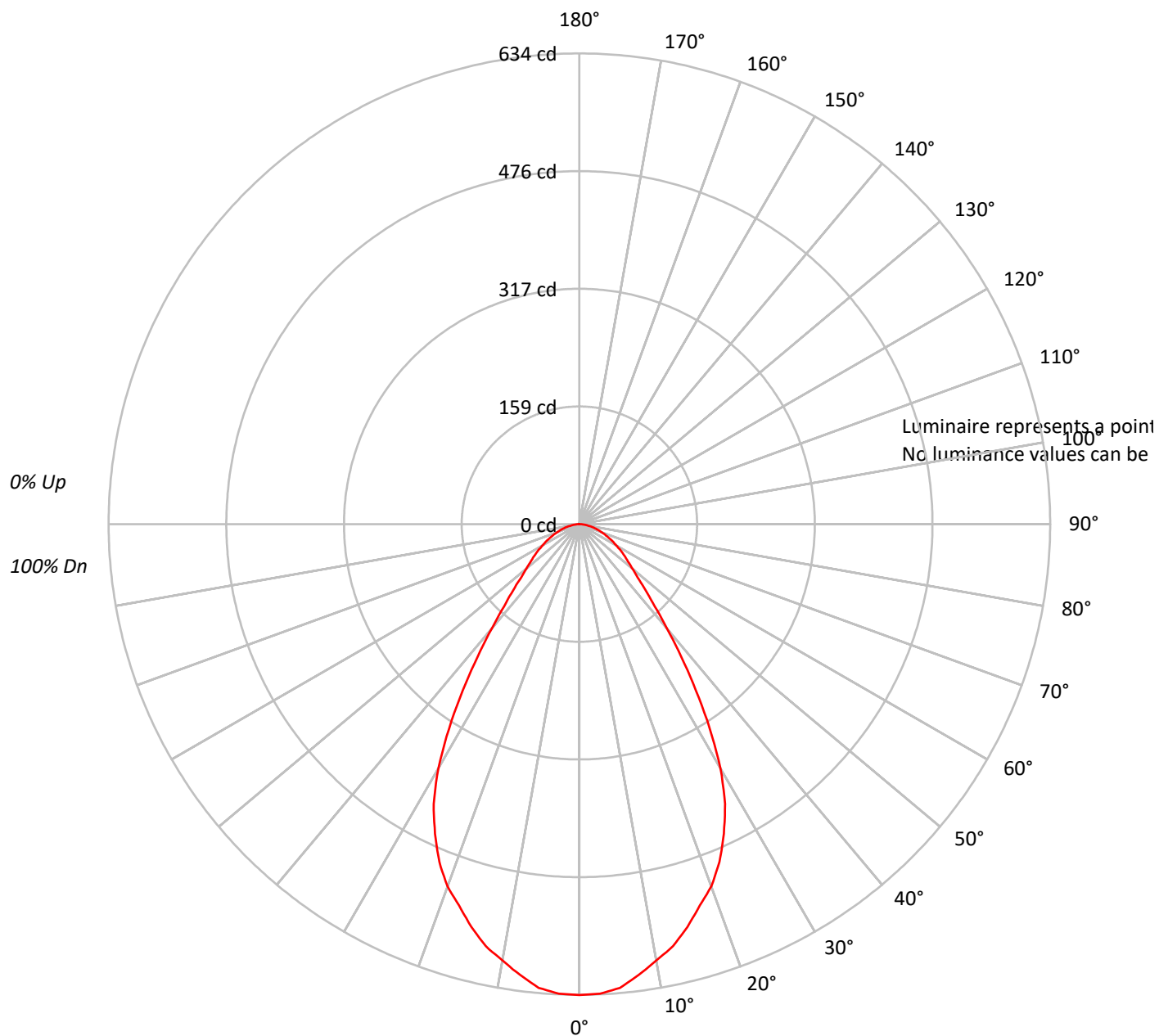
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102		109	106	103	100		102	99	97		98	96	94		94	93	91
2	104	98	92	88		102	96	91	87		93	89	85		89	86	83		87	84	81
3	97	89	83	77		95	87	82	77		85	80	76		82	78	74		80	76	73
4	91	81	74	69		89	80	74	69		78	72	68		76	71	67		74	69	66
5	85	75	67	62		83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	62	56		78	68	61	56		66	60	56		65	59	55		63	59	55
7	75	64	57	52		74	63	56	51		62	56	51		60	55	51		59	54	50
8	71	59	52	47		69	59	52	47		58	51	47		56	51	47		55	50	47
9	67	55	48	44		66	55	48	44		54	48	44		53	47	43		52	47	43
10	63	52	45	41		62	51	45	41		51	45	40		50	44	40		49	44	40

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	7.0
10°-20°	157.6	18.9
20°-30°	209.6	25.1
30°-40°	171.4	20.5
40°-50°	99.8	11.9
50°-60°	66.2	7.9
60°-70°	43.5	5.2
70°-80°	23.0	2.7
80°-90°	5.6	0.7
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°	426.0	51.0
0°-40°	597.4	71.5
0°-60°	763.5	91.4
0°-90°	835.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	835.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	634	
5°	627	59
15°	562	158
25°	460	210
35°	274	171
45°	126	100
55°	74	66
65°	44	44
75°	22	23
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	634.3
2.5°	633.1
5°	627.0
7.5°	612.5
10°	596.8
12.5°	582.3
15°	561.7
17.5°	538.7
20°	519.3
22.5°	492.7
25°	460.0
27.5°	424.9
30°	380.1
32.5°	326.8
35°	273.6
37.5°	225.2
40°	182.8
42.5°	150.1
45°	125.9
47.5°	106.5
50°	93.2
52.5°	82.3
55°	73.8
57.5°	65.4
60°	56.9
62.5°	50.8
65°	43.6
67.5°	37.5
70°	31.5
72.5°	26.6
75°	21.8
77.5°	16.9
80°	12.1
82.5°	8.5
85°	4.8
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)