

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: P211163

Luminaire Tested: **LSR4B15D010BZ EC4B10209727 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211163
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 4LBNMW1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 761.8 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

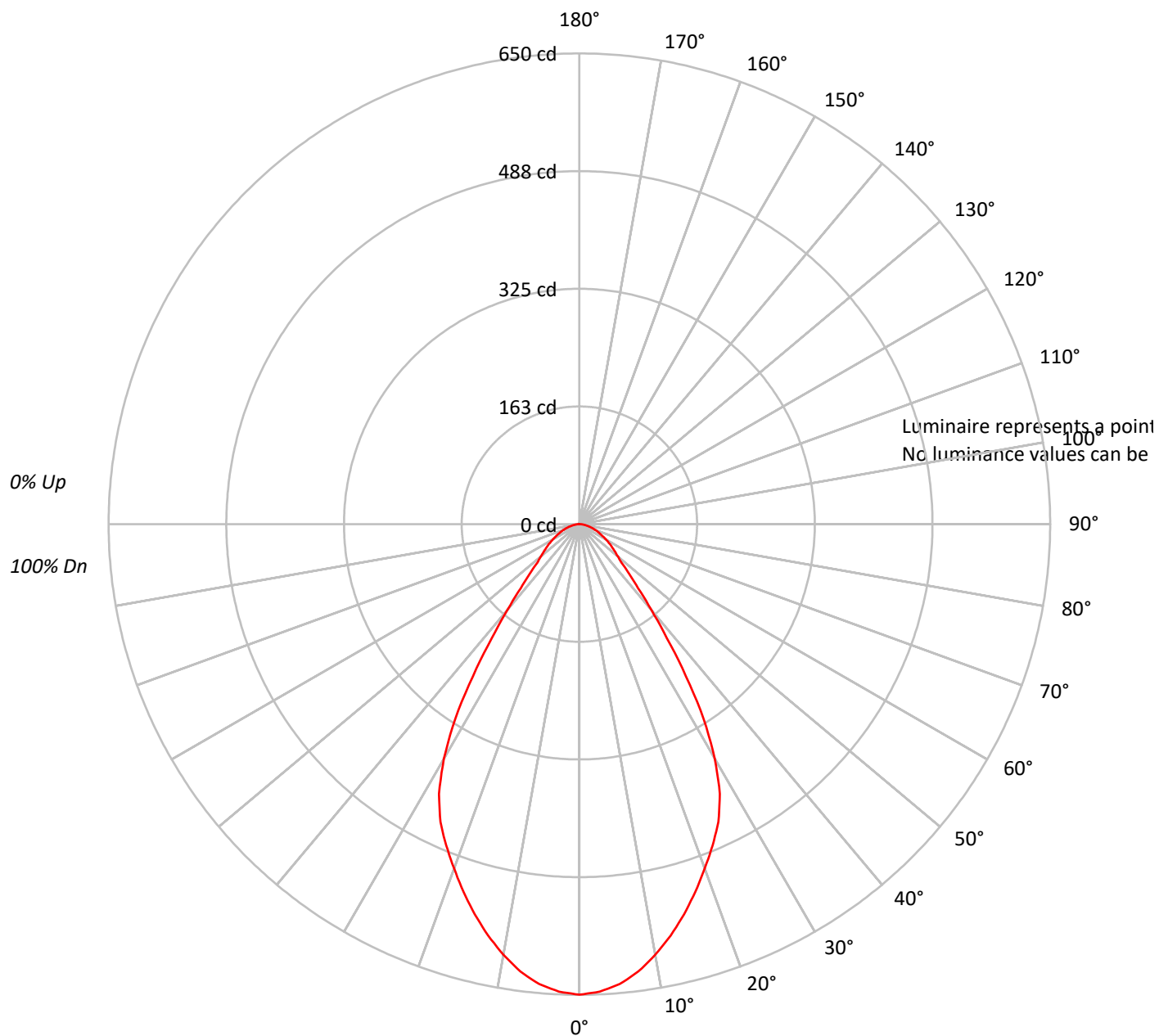
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	103		109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90		103	97	93	89		94	90	87		91	88	85		88	85	83
3	98	90	84	80		96	89	83	79		86	82	78		84	80	76		81	78	75
4	92	83	76	71		90	82	76	71		80	74	70		78	73	69		76	72	68
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	63
6	82	71	64	59		80	70	64	59		69	63	58		67	62	58		66	61	58
7	77	66	59	54		75	65	59	54		64	58	54		63	57	53		62	57	53
8	73	62	55	50		71	61	55	50		60	54	50		59	53	49		58	53	49
9	69	58	51	46		68	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43		64	54	47	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	7.8
10°-20°	156.4	20.5
20°-30°	205.9	27.0
30°-40°	160.2	21.0
40°-50°	77.8	10.2
50°-60°	49.2	6.5
60°-70°	31.7	4.2
70°-80°	16.6	2.2
80°-90°	4.1	0.5
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°	422.0	55.4
0°-40°	582.3	76.4
0°-60°	709.3	93.1
0°-90°	761.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	761.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	650	
5°	638	60
15°	558	156
25°	454	206
35°	256	160
45°	97	78
55°	54	49
65°	32	32
75°	16	17
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	649.8
2.5°	646.2
5°	637.7
7.5°	623.2
10°	603.8
12.5°	582.0
15°	557.8
17.5°	532.4
20°	505.8
22.5°	480.4
25°	453.8
27.5°	419.9
30°	373.9
32.5°	319.5
35°	256.5
37.5°	198.4
40°	153.7
42.5°	119.8
45°	96.8
47.5°	78.7
50°	69.0
52.5°	61.7
55°	54.5
57.5°	48.4
60°	42.4
62.5°	36.3
65°	31.5
67.5°	27.8
70°	23.0
72.5°	19.4
75°	15.7
77.5°	12.1
80°	8.5
82.5°	6.1
85°	3.6
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)