

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: P211351

Luminaire Tested: **LSR4B15D010BZ EC4B10208040 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211351
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 EC4B10208040 4LBWMW1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 1352.8 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

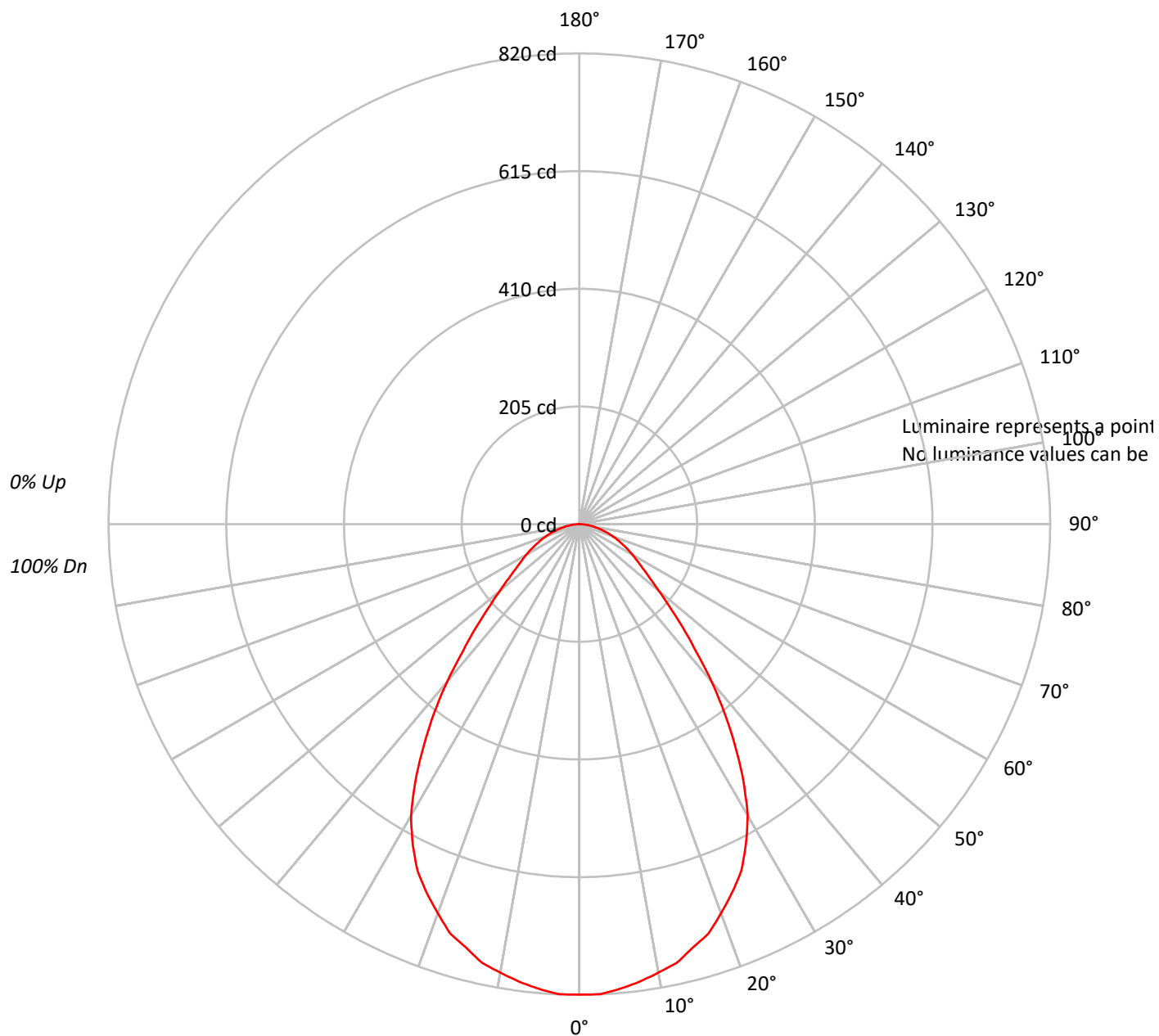
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101		108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	91	86		101	94	89	85		91	87	83		88	84	81		85	82	80
3	96	87	80	75		93	85	79	74		83	77	73		80	76	72		78	74	71
4	89	79	72	66		87	78	71	66		75	69	65		73	68	64		71	67	63
5	83	72	64	59		81	71	64	58		69	63	58		67	62	57		65	61	57
6	78	66	58	53		76	65	58	53		64	57	52		62	56	52		60	55	51
7	73	61	53	48		71	60	53	48		59	52	47		57	51	47		56	51	47
8	68	56	49	44		67	56	49	44		54	48	43		53	47	43		52	47	43
9	64	52	45	40		63	52	45	40		51	44	40		50	44	40		49	43	39
10	61	49	42	37		59	48	41	37		47	41	37		46	41	37		46	40	36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	5.7
10°-20°	215.2	15.9
20°-30°	304.2	22.5
30°-40°	294.6	21.8
40°-50°	198.8	14.7
50°-60°	123.4	9.1
60°-70°	82.5	6.1
70°-80°	45.1	3.3
80°-90°	11.9	0.9
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°	596.4	44.1
0°-40°	891.0	65.9
0°-60°	1213.3	89.7
0°-90°	1352.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1352.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	820	
5°	813	77
15°	764	215
25°	667	304
35°	474	295
45°	254	199
55°	135	123
65°	82	82
75°	42	45
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	819.7
2.5°	819.7
5°	812.7
7.5°	803.9
10°	793.4
12.5°	782.9
15°	763.6
17.5°	747.8
20°	721.4
22.5°	695.1
25°	667.0
27.5°	628.4
30°	586.3
32.5°	531.9
35°	473.9
37.5°	416.0
40°	358.1
42.5°	300.2
45°	254.5
47.5°	212.4
50°	180.8
52.5°	154.5
55°	135.2
57.5°	119.4
60°	107.1
62.5°	94.8
65°	82.5
67.5°	72.0
70°	61.4
72.5°	52.7
75°	42.1
77.5°	33.4
80°	24.6
82.5°	17.6
85°	10.5
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)