

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: P211433

Luminaire Tested: **LSR4B15D010BZ EC4B10209050 4LBSWMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211433
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 EC4B10209050 4LBSWMH1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WARM HAZE 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: 1297.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

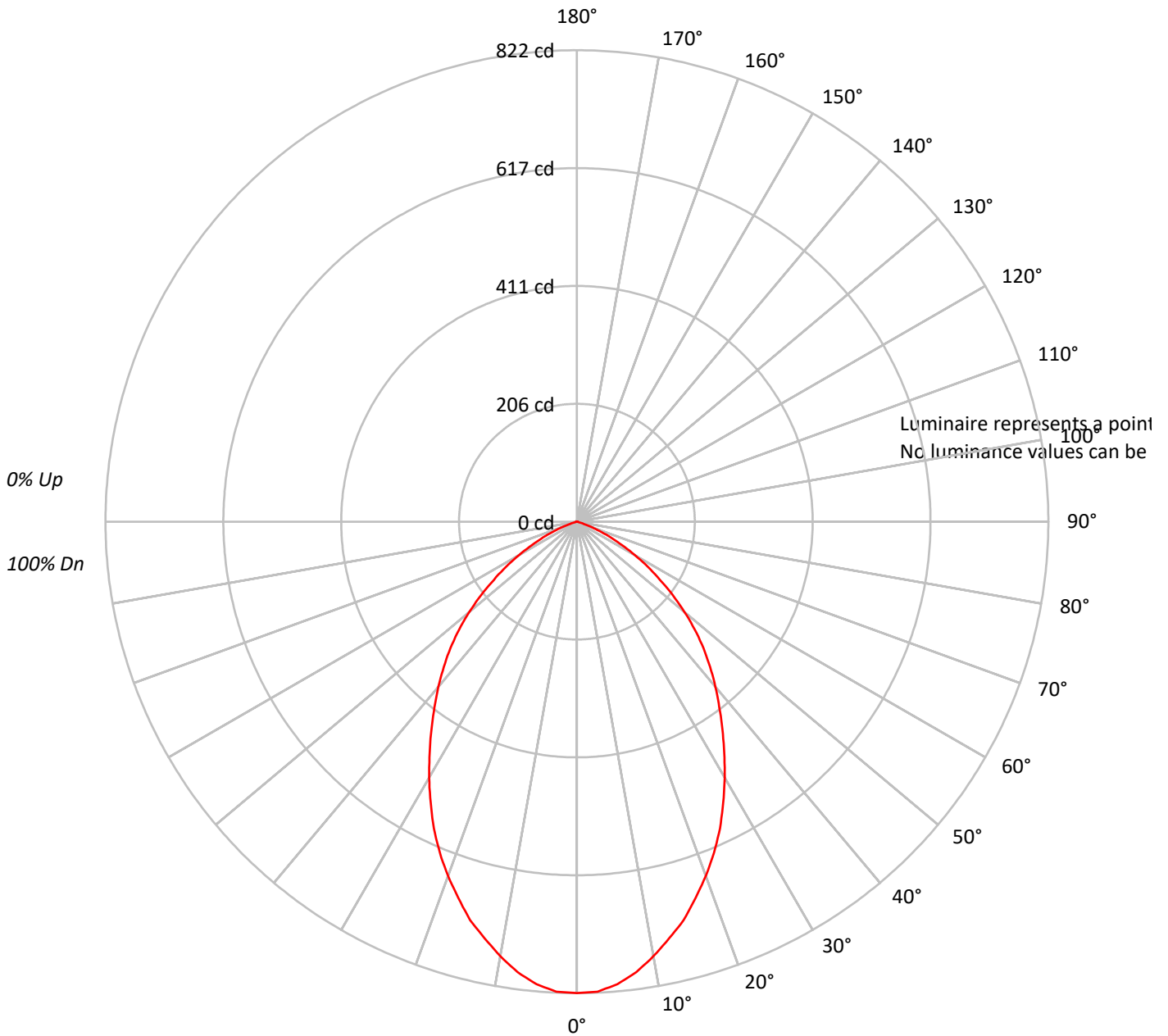
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	102	102	102	100																												
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90																												
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																												
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																												
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56																												
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50																												
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45																												
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41																												
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38																												
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35																												

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	5.9
10°-20°	201.3	15.5
20°-30°	270.4	20.8
30°-40°	276.8	21.3
40°-50°	239.6	18.5
50°-60°	159.3	12.3
60°-70°	65.5	5.0
70°-80°	7.8	0.6
80°-90°	0.4	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°	547.7	42.2
0°-40°	824.5	63.6
0°-60°	1223.4	94.3
0°-90°	1297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	822	
5°	809	76
15°	719	201
25°	590	270
35°	442	277
45°	312	240
55°	177	159
65°	65	65
75°	3	8
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	822.0
2.5°	820.3
5°	809.3
7.5°	792.3
10°	769.3
12.5°	743.8
15°	719.2
17.5°	687.7
20°	657.1
22.5°	624.8
25°	589.9
27.5°	552.5
30°	515.1
32.5°	477.7
35°	442.0
37.5°	408.0
40°	375.7
42.5°	343.4
45°	312.0
47.5°	278.8
50°	244.8
52.5°	210.8
55°	176.8
57.5°	147.1
60°	116.5
62.5°	88.4
65°	64.6
67.5°	42.5
70°	24.7
72.5°	11.9
75°	3.4
77.5°	1.7
80°	0.9
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)