

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: P211263

Luminaire Tested: **LSR4B15D010BZ EC4B10209730 4LBWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211263
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 EC4B10209730 4LBWLI1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SPECULAR CLEAR 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: 1104.9 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

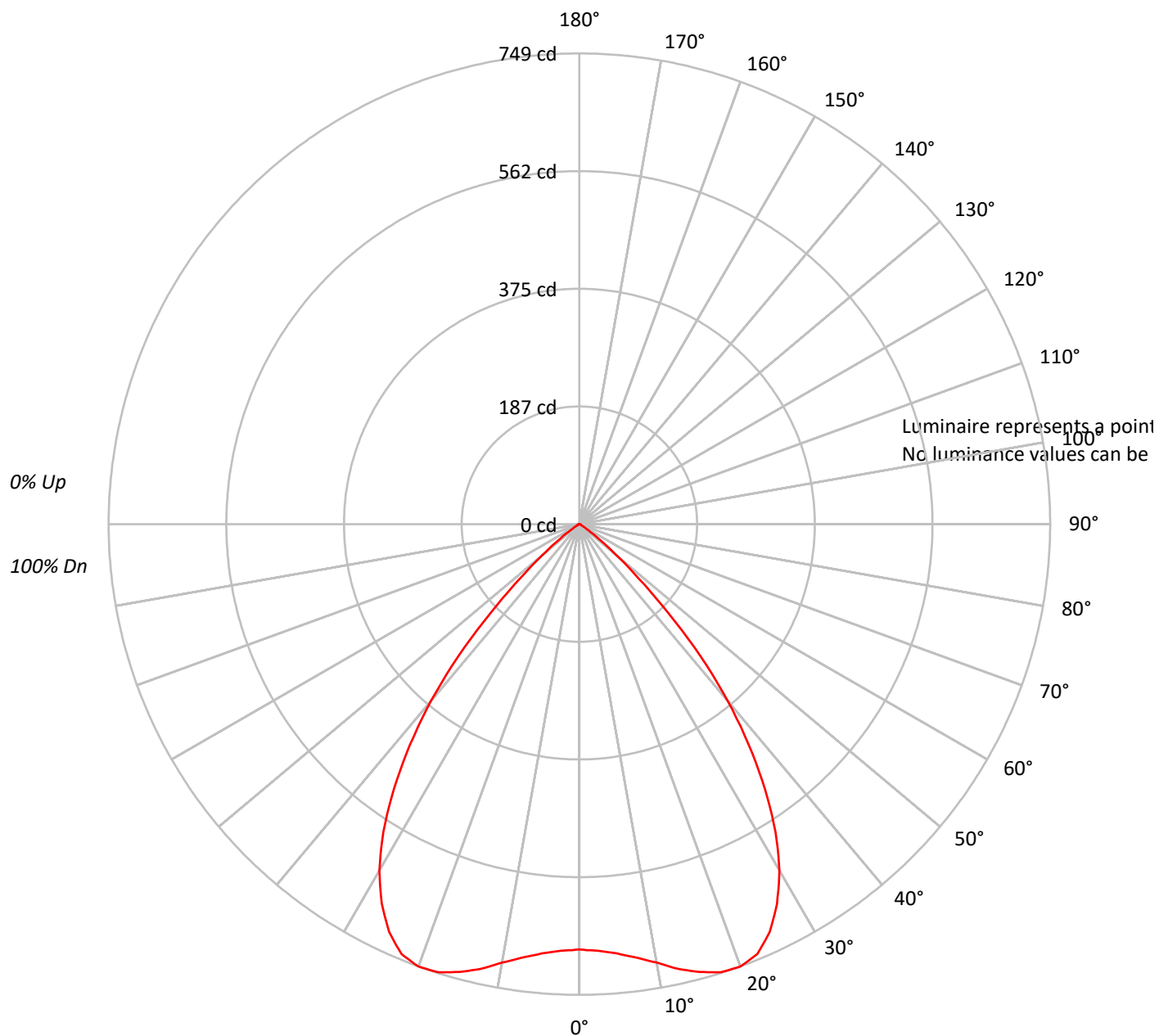
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92						
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84						
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77						
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70						
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64						
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58						
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54						
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49						
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45						
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42						

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	6.0
10°-20°	208.9	18.9
20°-30°	325.9	29.5
30°-40°	317.1	28.7
40°-50°	158.4	14.3
50°-60°	24.5	2.2
60°-70°	3.0	0.3
70°-80°	0.9	0.1
80°-90°	0.0	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°	601.0	54.4
0°-40°	918.2	83.1
0°-60°	1101.1	99.7
0°-90°	1104.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1104.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	677	
5°	686	66
15°	738	209
25°	716	326
35°	515	317
45°	199	158
55°	20	25
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	677.0
2.5°	679.5
5°	685.8
7.5°	695.9
10°	708.6
12.5°	725.0
15°	737.7
17.5°	747.8
20°	749.1
22.5°	740.2
25°	716.2
27.5°	680.8
30°	636.5
32.5°	580.8
35°	515.0
37.5°	442.9
40°	366.9
42.5°	286.0
45°	198.7
47.5°	127.8
50°	77.2
52.5°	41.8
55°	20.2
57.5°	8.9
60°	5.1
62.5°	3.8
65°	2.5
67.5°	2.5
70°	1.3
72.5°	1.3
75°	1.3
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)