

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: P211381

Luminaire Tested: **LSR4B15D010BZ EC4B10209040 4LBWWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211381
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 EC4B10209040 4LBWWH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH WHEAT 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: 1126.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

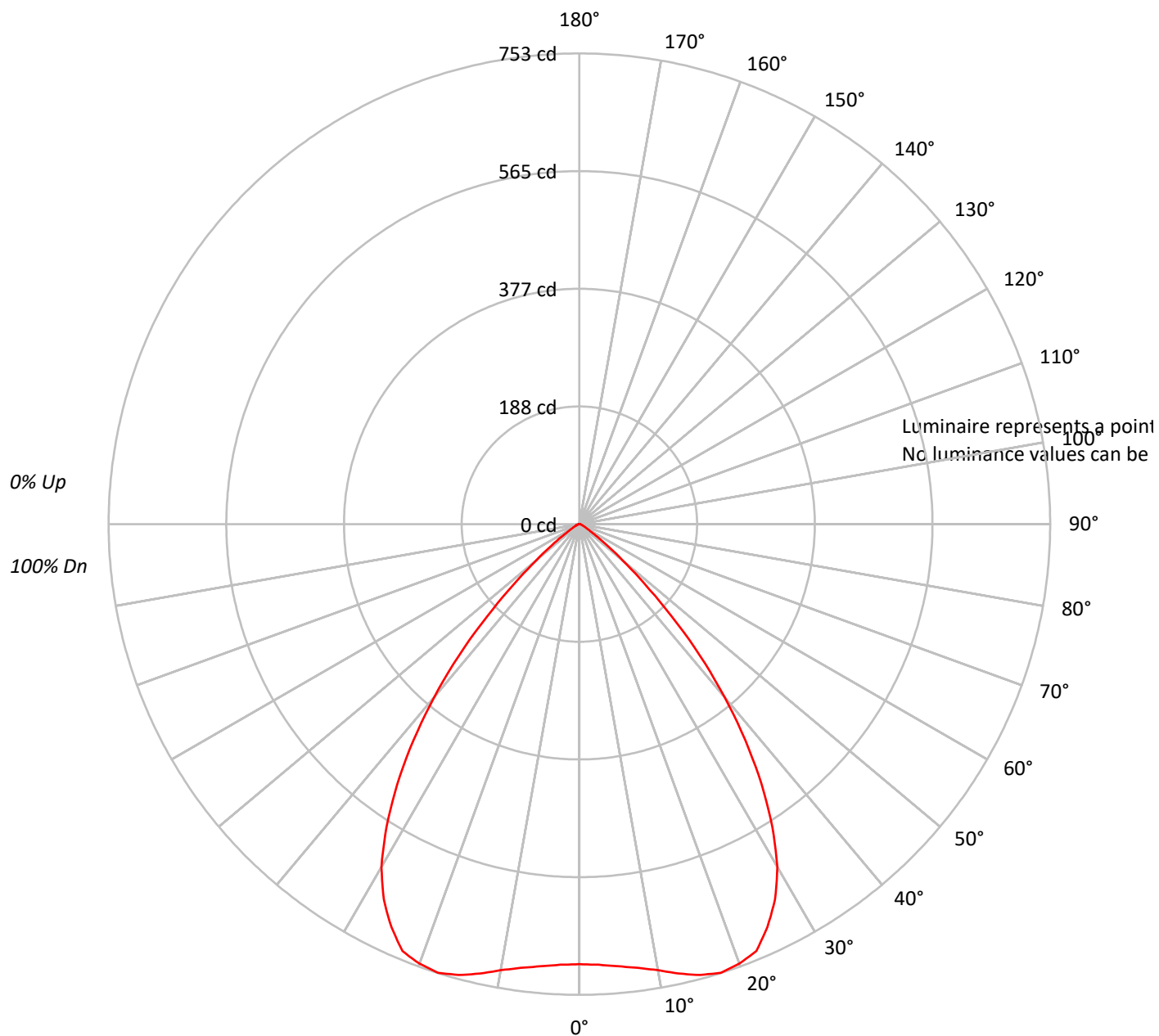
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104		110	107	105	103		103	101	100		100	98	97		96	95	94
2	106	101	96	92		104	99	95	91		96	92	89		93	90	87		90	88	85
3	100	93	87	82		98	91	86	82		88	84	80		86	82	79		84	80	78
4	94	85	79	74		92	84	78	74		82	77	73		80	75	72		78	74	71
5	88	79	72	67		86	78	71	67		76	70	66		74	69	65		72	68	65
6	83	73	66	61		81	72	65	61		70	64	60		69	64	60		67	63	59
7	78	67	60	56		76	67	60	55		65	59	55		64	59	55		63	58	54
8	73	62	56	51		72	62	55	51		61	55	51		60	54	50		59	54	50
9	69	58	51	47		68	58	51	47		57	51	47		56	50	47		55	50	46
10	65	54	48	43		64	54	48	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°	68.2	6.1
10°-20°	211.0	18.7
20°-30°	324.6	28.8
30°-40°	313.2	27.8
40°-50°	163.3	14.5
50°-60°	34.4	3.1
60°-70°	8.0	0.7
70°-80°	3.1	0.3
80°-90°	0.2	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°	603.8	53.6
0°-40°	917.0	81.4
0°-60°	1114.7	99.0
0°-90°	1126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	704	
5°	710	68
15°	747	211
25°	711	325
35°	508	313
45°	208	163
55°	31	34
65°	7	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	704.0
2.5°	705.5
5°	709.9
7.5°	715.8
10°	724.6
12.5°	736.4
15°	746.7
17.5°	752.6
20°	748.2
22.5°	739.4
25°	711.4
27.5°	677.5
30°	633.3
32.5°	574.4
35°	508.1
37.5°	436.0
40°	360.8
42.5°	285.7
45°	207.7
47.5°	139.9
50°	89.8
52.5°	54.5
55°	30.9
57.5°	19.1
60°	13.3
62.5°	10.3
65°	7.4
67.5°	5.9
70°	4.4
72.5°	4.4
75°	2.9
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)