

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: P211004

Luminaire Tested: **LSR4B10D010BZ EC4B10209040 4LBWWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211004
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: LSR4B10D010BZ EC4B10209040 4LBWWH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 808.2 lumens
Efficiency: N/A
Efficacy: 81.6 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

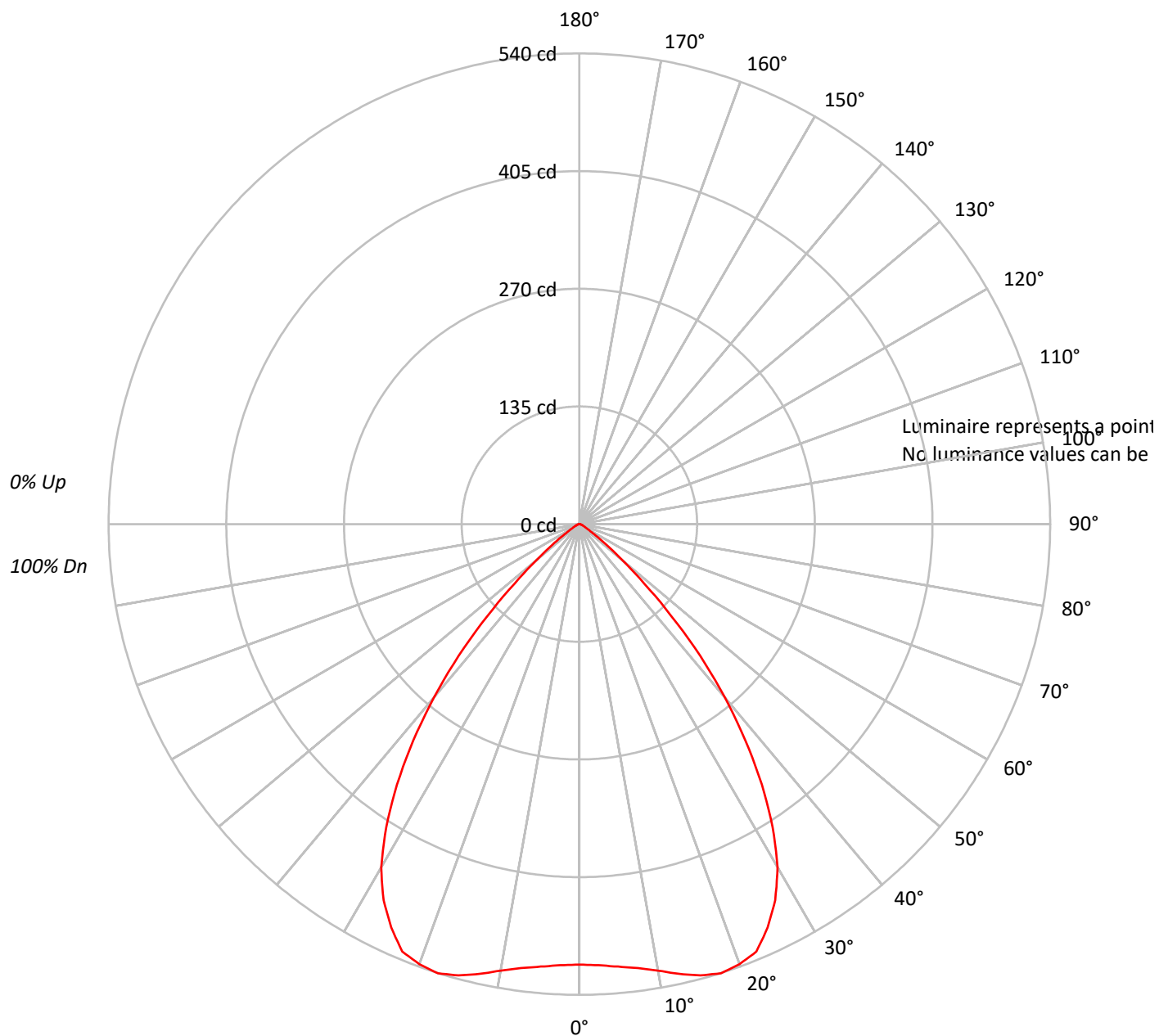
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	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			100
1	113	110	107	104		110	107	105	103		103	101	100			100	98	97			92
2	106	101	96	92		104	99	95	91		96	92	89			93	90	87			84
3	100	93	87	82		98	91	86	82		88	84	80			86	82	79			76
4	94	85	79	74		92	84	78	74		82	77	73			80	75	72			69
5	88	79	72	67		86	78	71	67		76	70	66			74	69	65			63
6	83	73	66	61		81	72	65	61		70	64	60			69	64	60			58
7	78	67	60	56		76	67	60	55		65	59	55			64	59	55			53
8	73	62	56	51		72	62	55	51		61	55	51			60	54	50			49
9	69	58	51	47		68	58	51	47		57	51	47			56	50	47			45
10	65	54	48	43		64	54	48	43		53	47	43			52	47	43			41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	6.1
10°-20°	151.5	18.7
20°-30°	233.0	28.8
30°-40°	224.8	27.8
40°-50°	117.2	14.5
50°-60°	24.7	3.1
60°-70°	5.7	0.7
70°-80°	2.2	0.3
80°-90°	0.1	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°	433.4	53.6
0°-40°	658.2	81.4
0°-60°	800.1	99.0
0°-90°	808.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	505	
5°	510	49
15°	536	151
25°	511	233
35°	365	225
45°	149	117
55°	22	25
65°	5	6
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	505.3
2.5°	506.4
5°	509.6
7.5°	513.8
10°	520.1
12.5°	528.6
15°	536.0
17.5°	540.2
20°	537.1
22.5°	530.7
25°	510.6
27.5°	486.3
30°	454.6
32.5°	412.3
35°	364.7
37.5°	312.9
40°	259.0
42.5°	205.1
45°	149.1
47.5°	100.4
50°	64.5
52.5°	39.1
55°	22.2
57.5°	13.7
60°	9.5
62.5°	7.4
65°	5.3
67.5°	4.2
70°	3.2
72.5°	3.2
75°	2.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)