

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: P210985

Luminaire Tested: **LSR4B10D010BZ EC4B10209040 4LBNB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210985
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 4LBNB1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SPECULAR BLACK 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: 361.3 lumens
Efficiency: N/A
Efficacy: 36.5 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.79
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

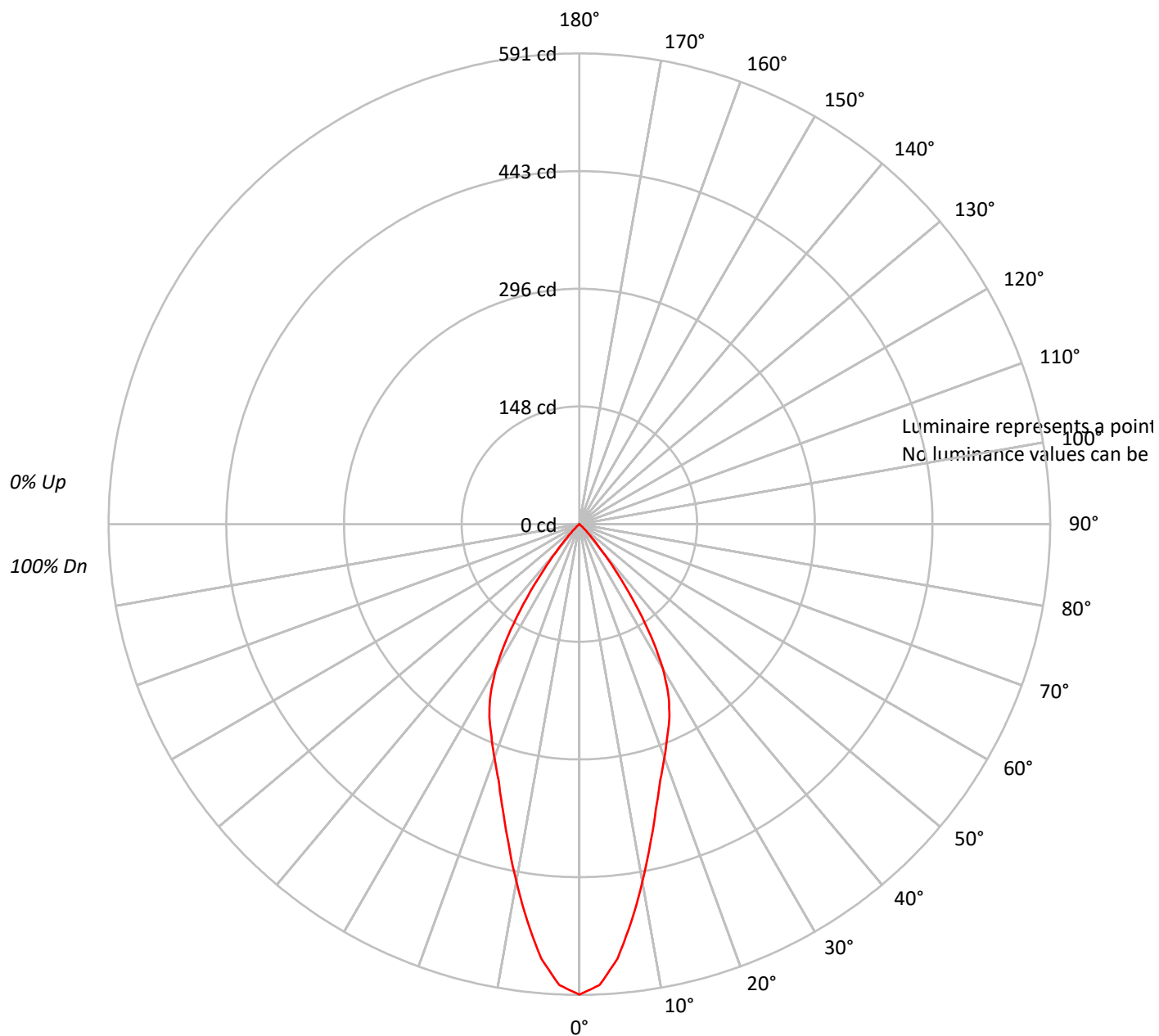
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	114	111	109	107		111	109	107	105		105	103	102			101	100	99			98
2	109	104	100	97		106	102	99	96		99	96	94			96	94	92			93
3	104	98	93	89		102	96	92	88		94	90	87			91	88	86			89
4	99	92	86	82		97	90	86	82		88	84	81			86	83	80			85
5	94	86	81	77		92	85	80	76		84	79	76			82	78	75			80
6	90	81	76	72		88	81	75	71		79	74	71			78	74	70			76
7	86	77	71	67		84	76	71	67		75	70	67			74	69	66			73
8	82	73	67	63		80	72	67	63		71	66	63			70	66	62			69
9	78	69	63	60		77	68	63	59		67	63	59			67	62	59			66
10	75	65	60	56		74	65	60	56		64	59	56			63	59	56			63

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	13.6
10°-20°	104.4	28.9
20°-30°	121.1	33.5
30°-40°	75.9	21.0
40°-50°	10.7	3.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	274.8	76.0
0°-40°	350.6	97.0
0°-60°	361.3	100.0
0°-90°	361.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	361.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	591	
5°	548	49
15°	371	104
25°	267	121
35°	122	76
45°	10	11
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	590.8
2.5°	579.2
5°	547.5
7.5°	502.0
10°	455.5
12.5°	411.1
15°	371.0
17.5°	337.2
20°	311.8
22.5°	288.5
25°	267.4
27.5°	242.0
30°	209.3
32.5°	168.1
35°	121.5
37.5°	79.3
40°	45.4
42.5°	23.3
45°	9.5
47.5°	2.1
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)