

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: P210811

Luminaire Tested: **LSR4B10D010BZ EC4B10208030 4LBNB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210811
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 EC4B10208030 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: 416.5 lumens
Efficiency: N/A
Efficacy: 42.1 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

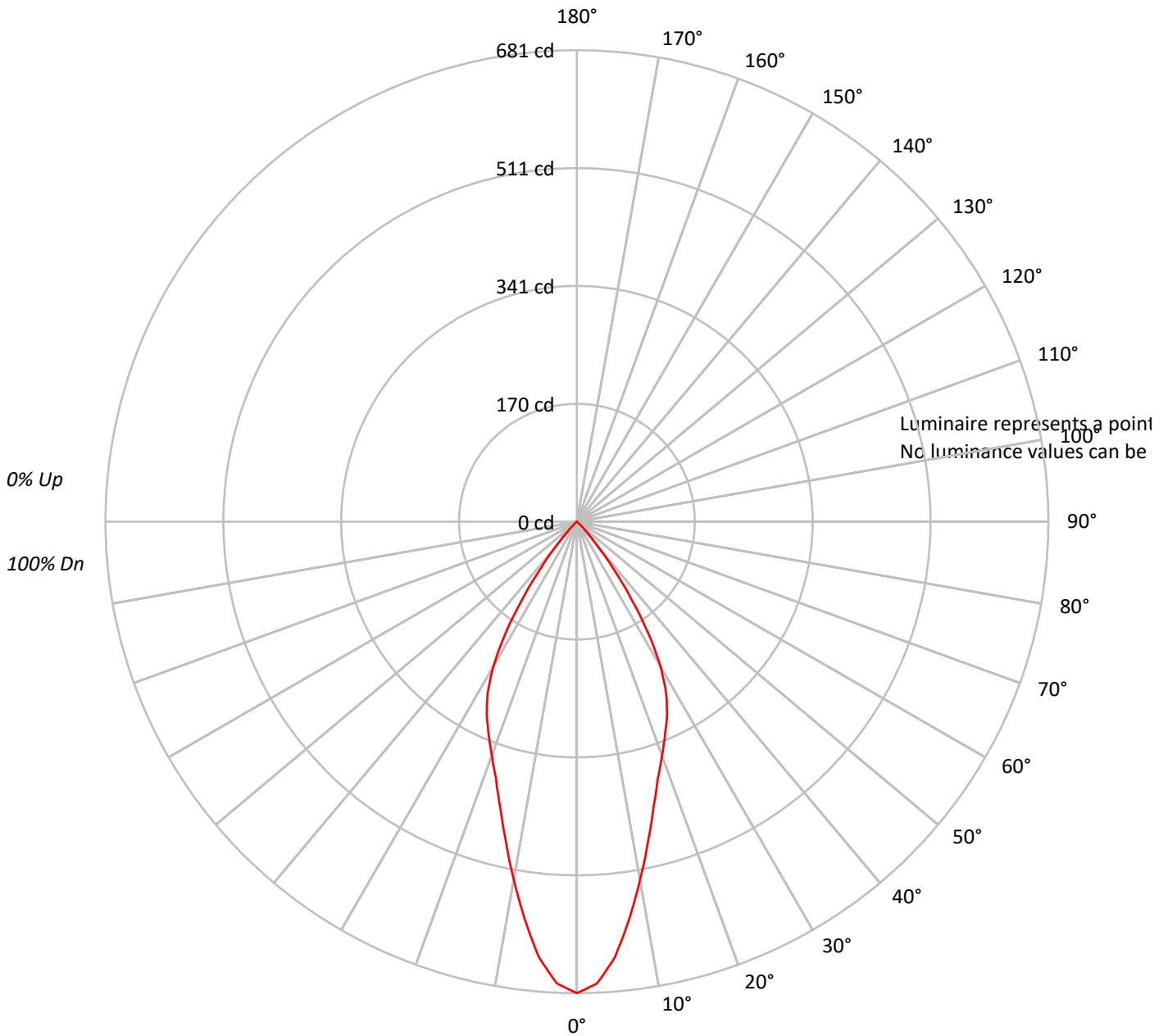
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94		
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88		
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83		
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78		
5	94	86	81	77	92	85	80	76	84	79	76	82	78	75	80	77	74	73		
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69		
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65		
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61		
9	78	69	63	60	77	68	63	59	67	63	59	67	62	59	66	62	59	58		
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	13.6
10°-20°	120.4	28.9
20°-30°	139.6	33.5
30°-40°	87.4	21.0
40°-50°	12.3	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°	316.7	76.0
0°-40°	404.2	97.0
0°-60°	416.5	100.0
0°-90°	416.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	416.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	681	
5°	631	57
15°	428	120
25°	308	140
35°	140	87
45°	11	12
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	681.1
2.5°	667.6
5°	631.1
7.5°	578.7
10°	525.1
12.5°	473.9
15°	427.6
17.5°	388.7
20°	359.4
22.5°	332.6
25°	308.2
27.5°	279.0
30°	241.2
32.5°	193.7
35°	140.1
37.5°	91.4
40°	52.4
42.5°	26.8
45°	11.0
47.5°	2.4
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)