

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: P210688

Luminaire Tested: **LSR4B10D010BZ EC4B10209024 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210688
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 EC4B10209024 4LBCSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 809.3 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

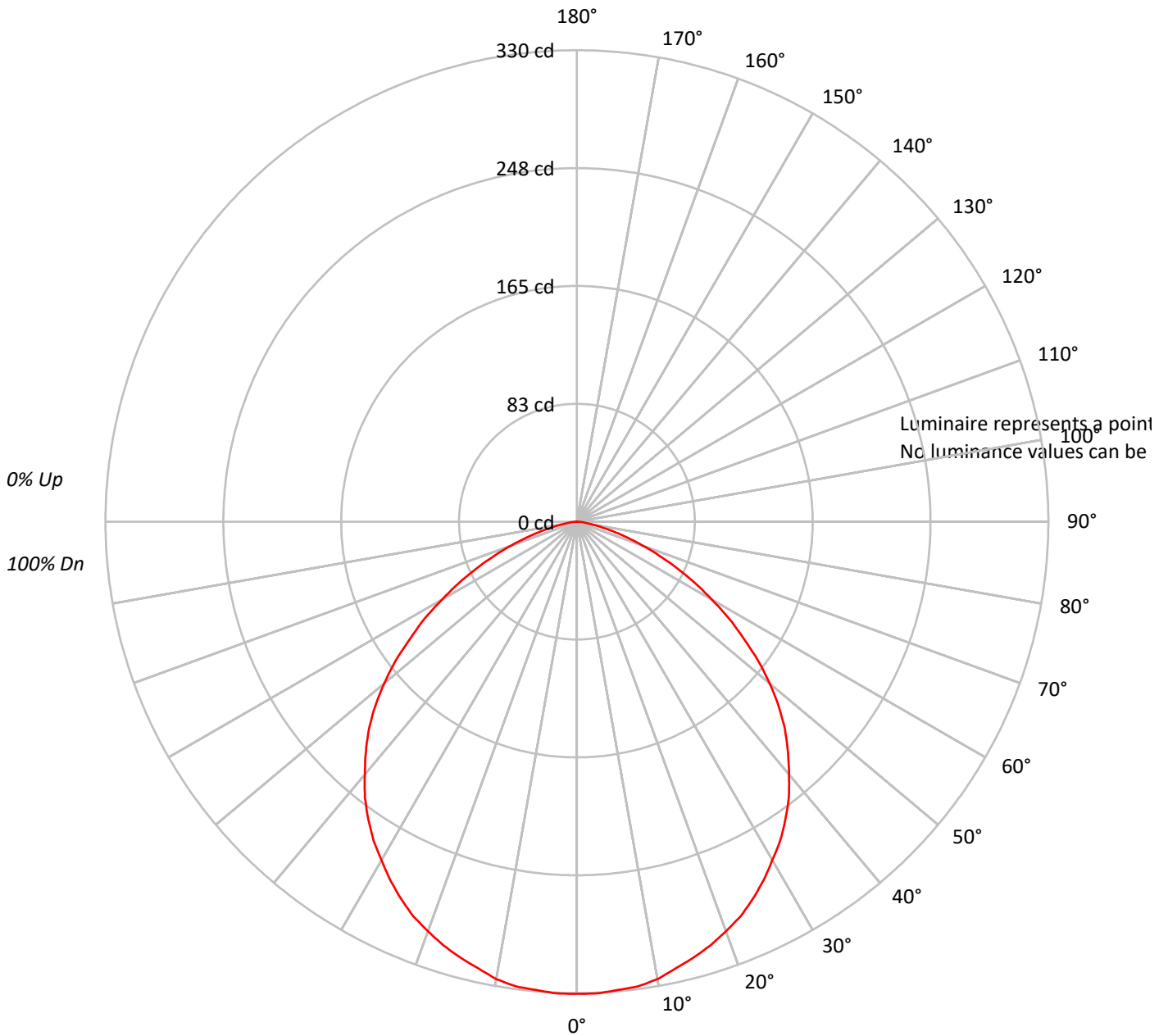
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	74	74	74
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63	63	63	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55	55	55	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48	48	48	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37	37	37	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33	33	33	33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27	27	27	27

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	3.9
10°-20°	89.1	11.0
20°-30°	134.1	16.6
30°-40°	158.9	19.6
40°-50°	158.2	19.5
50°-60°	127.5	15.8
60°-70°	77.2	9.5
70°-80°	28.6	3.5
80°-90°	4.3	0.5
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°	254.6	31.5
0°-40°	413.5	51.1
0°-60°	699.2	86.4
0°-90°	809.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	330	
5°	329	31
15°	316	89
25°	291	134
35°	254	159
45°	206	158
55°	142	128
65°	78	77
75°	26	29
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	330.5
2.5°	330.5
5°	329.1
7.5°	328.1
10°	325.1
12.5°	320.2
15°	315.8
17.5°	310.9
20°	305.0
22.5°	299.1
25°	291.3
27.5°	283.0
30°	273.6
32.5°	264.8
35°	254.5
37.5°	243.7
40°	231.0
42.5°	218.7
45°	206.0
47.5°	191.7
50°	176.1
52.5°	159.9
55°	142.2
57.5°	126.5
60°	108.9
62.5°	93.2
65°	77.5
67.5°	62.8
70°	49.0
72.5°	36.8
75°	26.0
77.5°	16.7
80°	9.8
82.5°	5.9
85°	3.4
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)