

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: P210995

Luminaire Tested: **LSR4B10D010BZ EC4B10209040 4LBSLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210995
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 4LBSLI1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR 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: 954.1 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

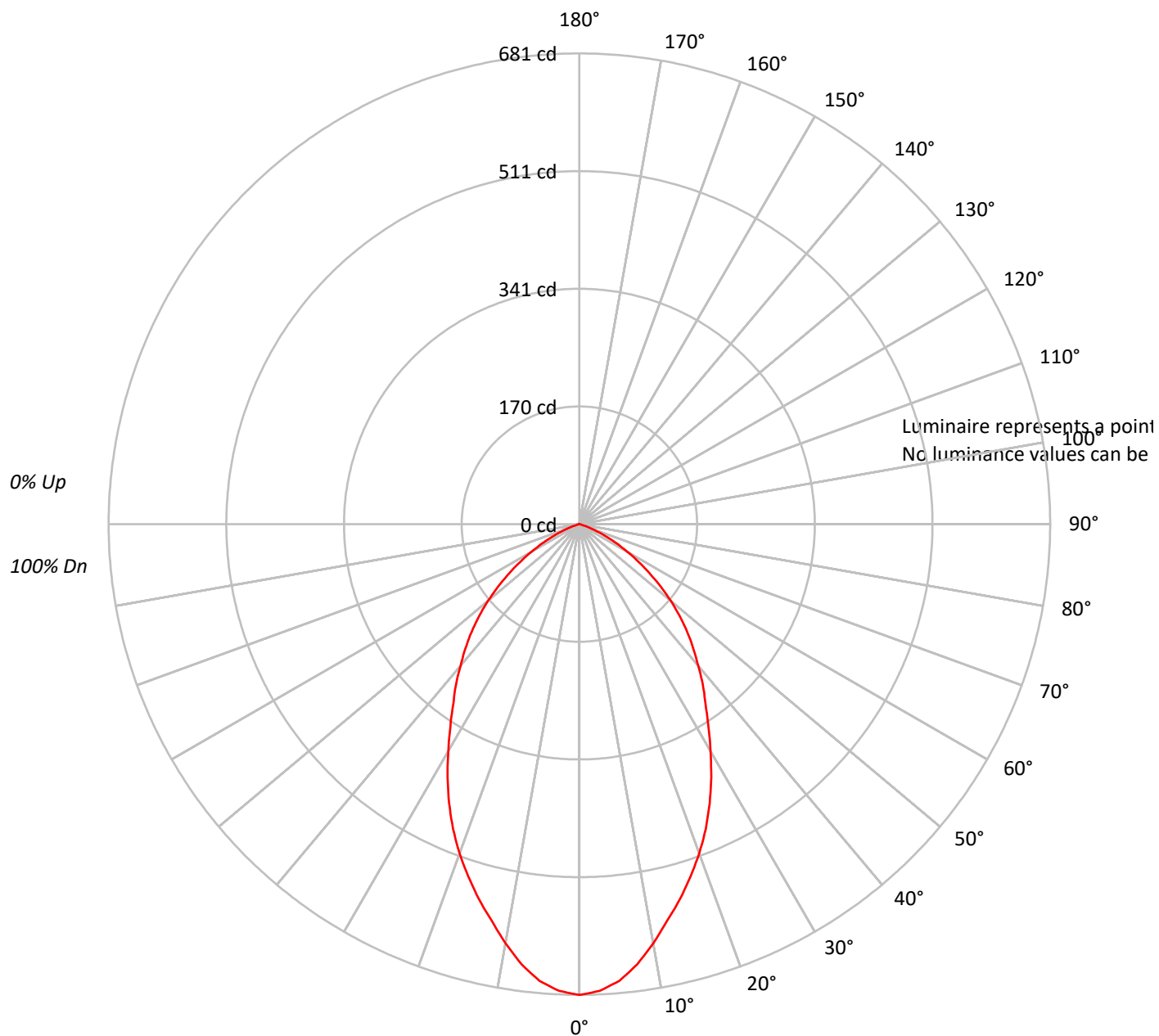
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92
2	104	98	93	88	102	96	91	87		93	89	85		90	86	84		87	84	82
3	97	89	82	77	95	87	81	77		84	79	75		82	78	74		79	76	73
4	90	81	73	68	88	79	73	68		77	71	67		75	70	66		73	69	65
5	84	73	66	61	82	72	65	60		70	64	60		69	63	59		67	62	59
6	79	67	60	54	77	66	59	54		65	58	54		63	58	53		62	57	53
7	74	62	54	49	72	61	54	49		60	53	49		58	53	48		57	52	48
8	69	57	50	45	68	57	50	45		55	49	45		54	49	44		53	48	44
9	65	53	46	41	64	53	46	41		52	45	41		51	45	41		50	44	41
10	61	50	43	38	60	49	42	38		48	42	38		47	42	38		46	41	37

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	6.5
10°-20°	157.5	16.5
20°-30°	204.1	21.4
30°-40°	200.0	21.0
40°-50°	169.5	17.8
50°-60°	111.2	11.7
60°-70°	44.7	4.7
70°-80°	5.1	0.5
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°	423.4	44.4
0°-40°	623.5	65.3
0°-60°	904.1	94.8
0°-90°	954.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	954.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	681	
5°	663	62
15°	562	158
25°	446	204
35°	318	200
45°	221	170
55°	124	111
65°	43	45
75°	2	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	681.2
2.5°	675.9
5°	663.3
7.5°	642.1
10°	615.7
12.5°	587.2
15°	561.9
17.5°	534.4
20°	506.9
22.5°	477.4
25°	445.7
27.5°	413.0
30°	379.2
32.5°	347.5
35°	317.9
37.5°	293.6
40°	267.2
42.5°	244.0
45°	220.7
47.5°	196.4
50°	172.2
52.5°	147.9
55°	123.6
57.5°	101.4
60°	80.3
62.5°	61.3
65°	43.3
67.5°	28.5
70°	16.9
72.5°	7.4
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)