

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: P210994

Luminaire Tested: **LSR4B10D010BZ EC4B10209040 4LBSH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210994
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 4LBSH1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SEMI-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: 914.8 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

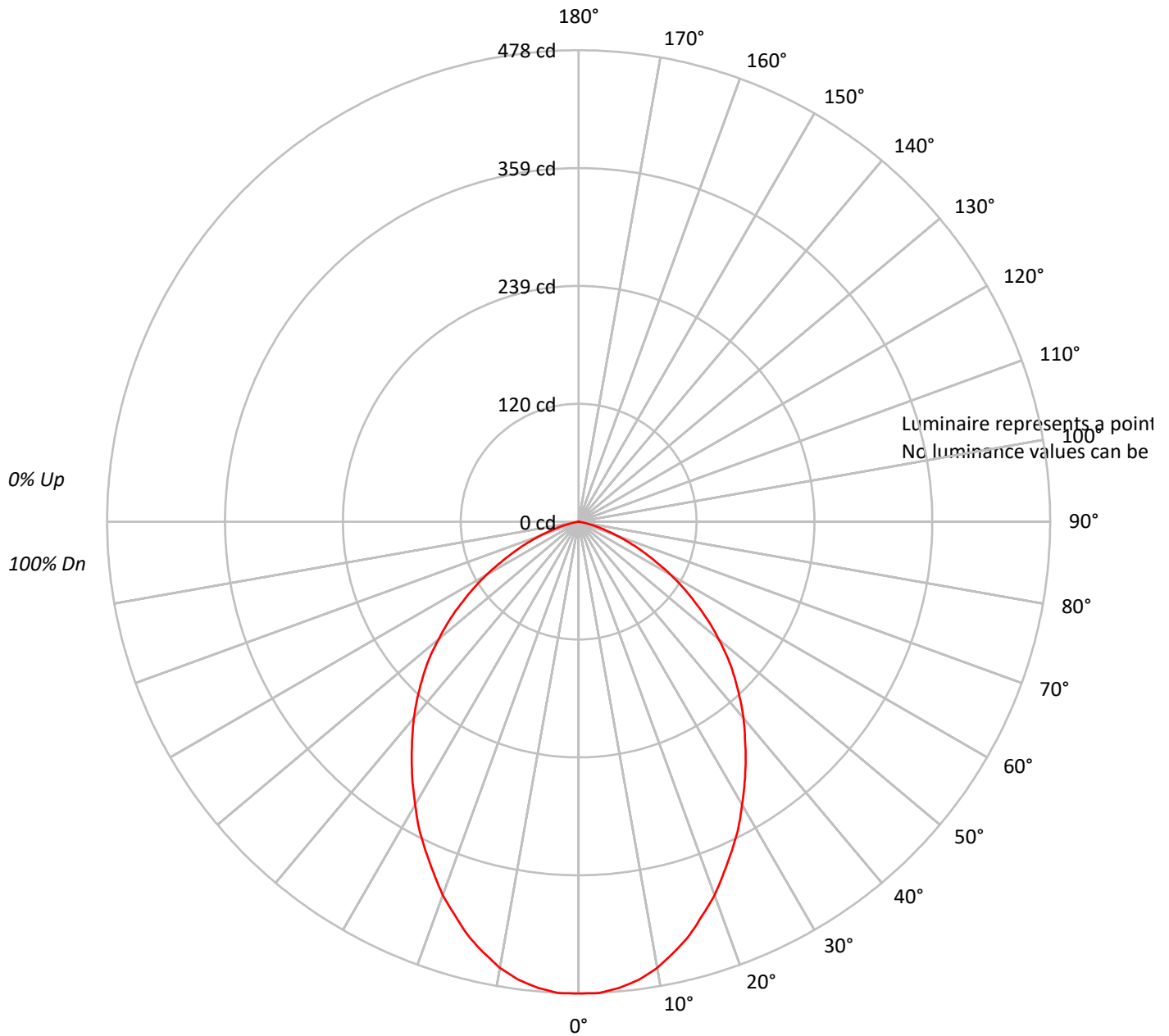
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		93	92	90
2	102	96	90	85		100	94	88	84		90	86	82		87	83	80		84	81	79
3	95	85	78	73		92	84	77	72		81	75	71		78	74	70		76	72	69
4	87	77	69	63		85	75	68	63		73	67	62		71	65	61		69	64	60
5	81	69	61	55		79	68	61	55		66	60	55		64	59	54		63	58	53
6	75	63	55	49		73	62	54	49		60	54	49		59	53	48		57	52	48
7	70	58	50	44		68	57	49	44		55	49	44		54	48	43		53	47	43
8	65	53	45	40		64	52	45	40		51	44	39		50	44	39		49	43	39
9	61	49	41	36		60	48	41	36		47	40	36		46	40	36		45	40	35
10	58	45	38	33		56	45	38	33		44	37	33		43	37	33		42	37	33

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	4.9
10°-20°	121.8	13.3
20°-30°	169.2	18.5
30°-40°	184.6	20.2
40°-50°	172.2	18.8
50°-60°	130.7	14.3
60°-70°	71.6	7.8
70°-80°	19.7	2.2
80°-90°	0.3	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°	335.8	36.7
0°-40°	520.4	56.9
0°-60°	823.3	90.0
0°-90°	914.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	914.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	478	
5°	474	45
15°	434	122
25°	368	169
35°	295	185
45°	224	172
55°	146	131
65°	72	72
75°	17	20
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	478.4
2.5°	478.4
5°	474.4
7.5°	468.4
10°	459.3
12.5°	447.2
15°	434.1
17.5°	418.0
20°	402.9
22.5°	384.8
25°	367.6
27.5°	350.5
30°	331.4
32.5°	313.3
35°	295.1
37.5°	277.0
40°	259.9
42.5°	241.7
45°	223.6
47.5°	205.5
50°	185.3
52.5°	166.2
55°	146.1
57.5°	126.9
60°	107.8
62.5°	88.6
65°	71.5
67.5°	55.4
70°	41.3
72.5°	28.2
75°	17.1
77.5°	8.1
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)