

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: P210731

Luminaire Tested: **LSR4B10D010BZ EC4B10208027 4LBSB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210731
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 EC4B10208027 4LBSB1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW 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: 886.7 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

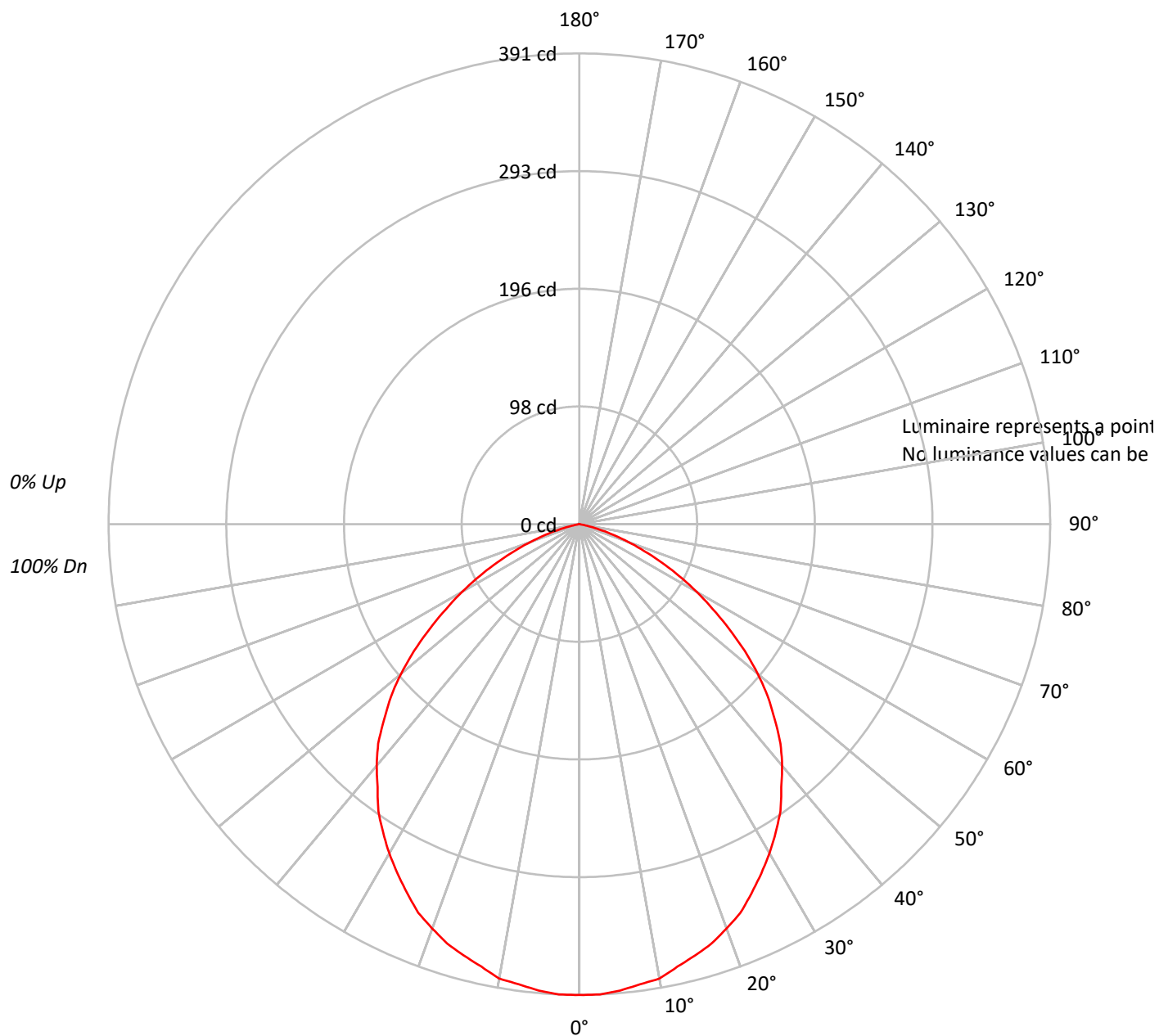
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	98	100	98	95		97	94	93		93
2	102	95	89	84	100	93	88	83	90	85	81		86	83	79		84
3	94	84	77	72	91	83	76	71	80	74	70		77	73	68		75
4	86	76	68	62	84	74	67	61	72	65	60		70	64	60		68
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	53	47	72	61	53	47	59	52	47		57	51	46		56
7	69	56	48	42	67	55	48	42	54	47	42		52	46	41		51
8	64	51	43	38	63	51	43	38	49	42	37		48	42	37		47
9	60	47	39	34	59	47	39	34	46	39	34		45	38	34		44
10	56	44	36	31	55	43	36	31	42	36	31		41	35	31		40

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	4.2
10°-20°	104.7	11.8
20°-30°	155.8	17.6
30°-40°	181.3	20.5
40°-50°	176.7	19.9
50°-60°	135.9	15.3
60°-70°	75.1	8.5
70°-80°	19.9	2.2
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°	297.5	33.6
0°-40°	478.8	54.0
0°-60°	791.5	89.3
0°-90°	886.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	391	
5°	389	37
15°	371	105
25°	338	156
35°	291	181
45°	229	177
55°	152	136
65°	75	75
75°	17	20
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	391.1
2.5°	391.1
5°	388.9
7.5°	385.5
10°	383.3
12.5°	376.5
15°	370.9
17.5°	365.3
20°	357.4
22.5°	349.6
25°	338.3
27.5°	327.1
30°	315.8
32.5°	303.5
35°	291.1
37.5°	275.4
40°	261.9
42.5°	247.3
45°	229.3
47.5°	212.4
50°	193.3
52.5°	173.1
55°	151.7
57.5°	131.5
60°	112.4
62.5°	93.3
65°	75.3
67.5°	58.4
70°	42.7
72.5°	29.2
75°	16.9
77.5°	7.9
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)