

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: P210730

Luminaire Tested: **LSR4B10D010BZ EC4B10208027 4LBPSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210730
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 4LBPSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC 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: 1095.1 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

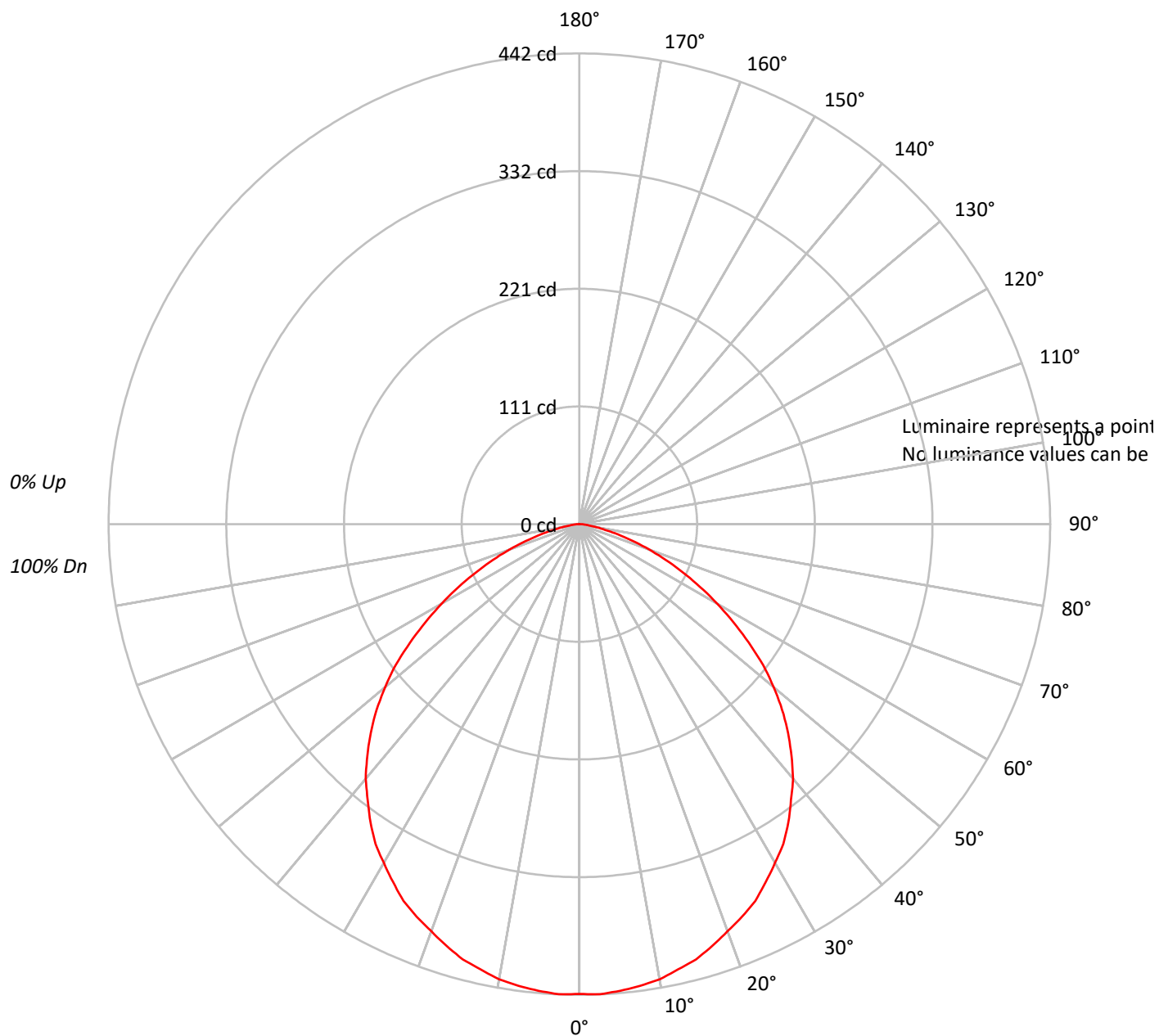
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82
3	93	83	75	69	90	81	74	69	78	72	67		76	70	66		73
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		66
5	78	66	58	51	76	65	57	51	63	56	51		61	55	50		59
6	73	60	51	45	71	59	51	45	57	50	44		55	49	44		54
7	67	54	46	40	66	54	46	40	52	45	40		51	44	39		49
8	63	50	41	36	61	49	41	36	48	41	35		46	40	35		45
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	3.8
10°-20°	119.2	10.9
20°-30°	179.5	16.4
30°-40°	213.6	19.5
40°-50°	213.2	19.5
50°-60°	173.4	15.8
60°-70°	106.6	9.7
70°-80°	41.3	3.8
80°-90°	6.6	0.6
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°	340.5	31.1
0°-40°	554.0	50.6
0°-60°	940.5	85.9
0°-90°	1095.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1095.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	441	
5°	440	42
15°	423	119
25°	391	179
35°	342	214
45°	277	213
55°	194	173
65°	107	107
75°	38	41
85°	5	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	441.2
2.5°	441.9
5°	439.9
7.5°	437.3
10°	434.1
12.5°	428.3
15°	423.1
17.5°	415.3
20°	406.8
22.5°	399.1
25°	390.6
27.5°	378.9
30°	367.3
32.5°	356.2
35°	342.0
37.5°	326.4
40°	312.1
42.5°	294.6
45°	277.1
47.5°	258.2
50°	238.1
52.5°	217.4
55°	194.0
57.5°	171.3
60°	149.2
62.5°	127.8
65°	107.1
67.5°	87.6
70°	69.4
72.5°	52.6
75°	37.6
77.5°	24.7
80°	14.9
82.5°	9.1
85°	5.2
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)