

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: P211239

Luminaire Tested: **LSR4B15D010BZ EC4B10209730 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211239
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: LSR4B15D010BZ EC4B10209730 4LBCSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1164.3 lumens
Efficiency: N/A
Efficacy: 81.4 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

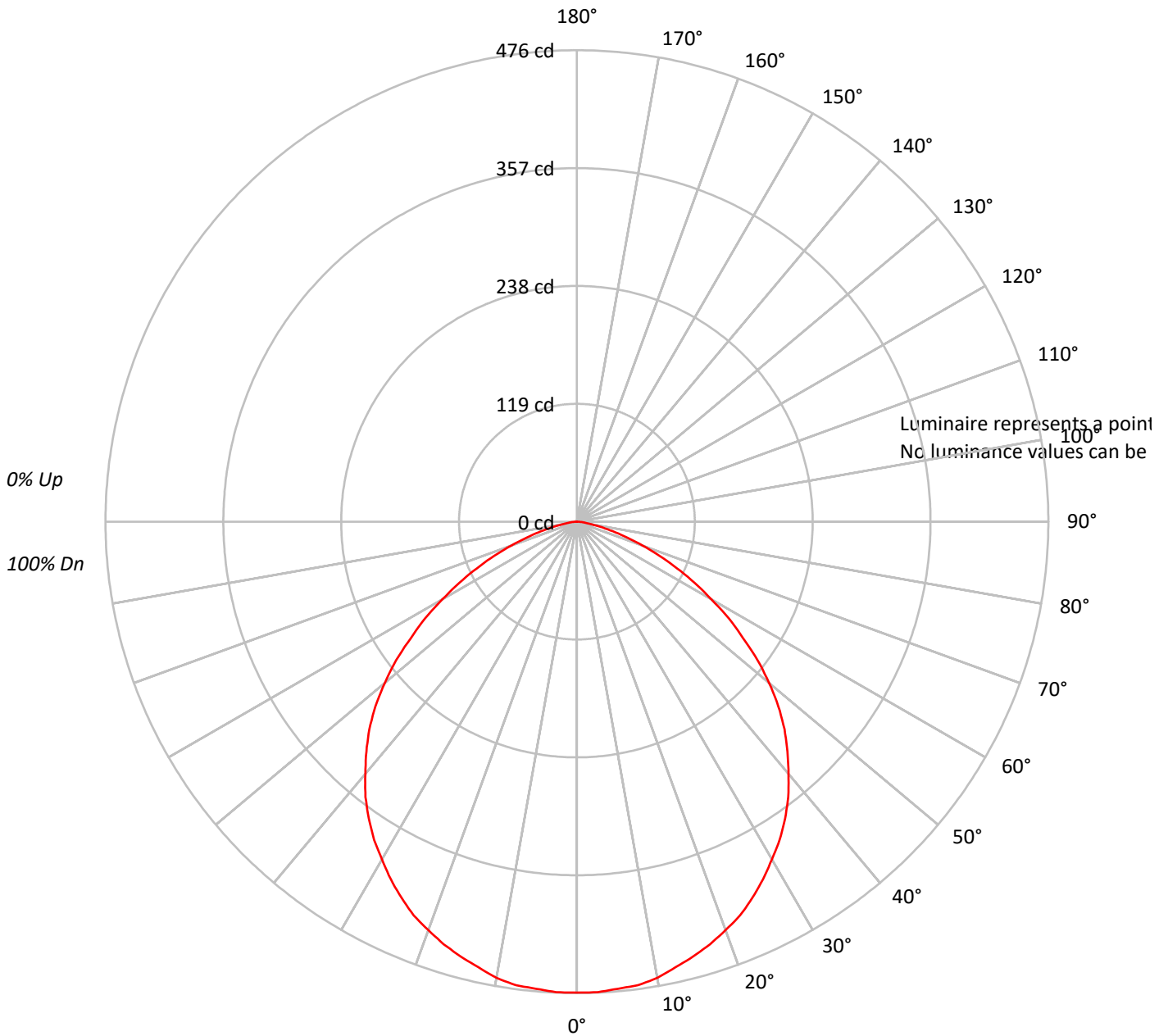
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	3.9
10°-20°	128.3	11.0
20°-30°	193.0	16.6
30°-40°	228.7	19.6
40°-50°	227.6	19.5
50°-60°	183.4	15.8
60°-70°	111.0	9.5
70°-80°	41.2	3.5
80°-90°	6.1	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°	366.3	31.5
0°-40°	594.9	51.1
0°-60°	1006.0	86.4
0°-90°	1164.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	476	
5°	473	45
15°	454	128
25°	419	193
35°	366	229
45°	296	228
55°	205	183
65°	112	111
75°	37	41
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	475.5
2.5°	475.5
5°	473.4
7.5°	472.0
10°	467.8
12.5°	460.7
15°	454.4
17.5°	447.3
20°	438.8
22.5°	430.4
25°	419.1
27.5°	407.1
30°	393.7
32.5°	381.0
35°	366.2
37.5°	350.6
40°	332.3
42.5°	314.7
45°	296.3
47.5°	275.9
50°	253.3
52.5°	230.0
55°	204.6
57.5°	182.0
60°	156.6
62.5°	134.0
65°	111.5
67.5°	90.3
70°	70.6
72.5°	52.9
75°	37.4
77.5°	24.0
80°	14.1
82.5°	8.5
85°	4.9
87.5°	2.1
90°	0.0



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— 0°-180°







(END OF REPORT)