

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: P211039

Luminaire Tested: **LSR4B10D010BZ EC4B10209050 4LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211039
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 EC4B10209050 4LBMH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 703.5 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

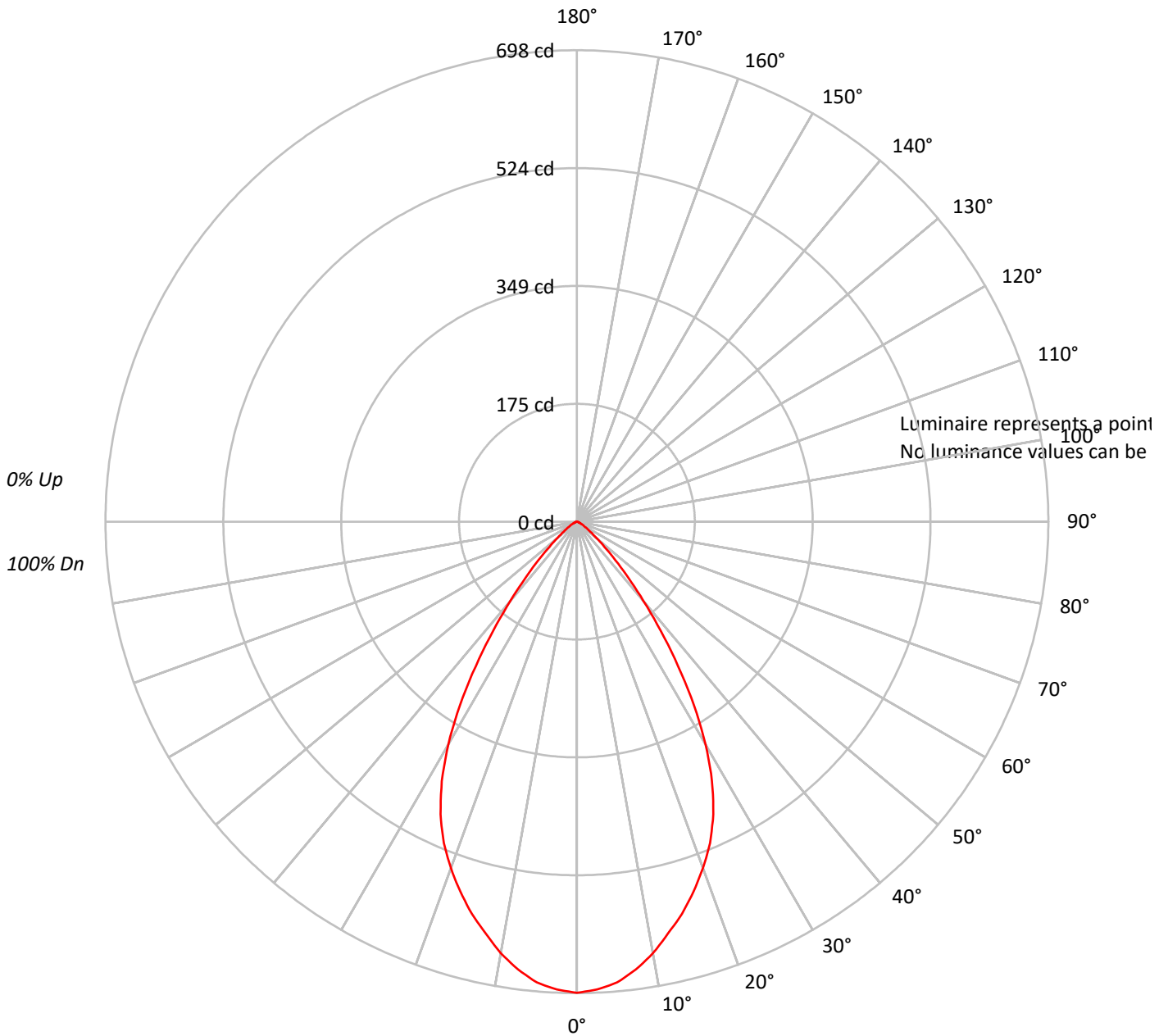
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																																				
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																																				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79																																				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73																																				
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67																																				
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																																				
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																																				
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																																				
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50																																				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47																																				

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	9.1
10°-20°	168.4	23.9
20°-30°	216.4	30.8
30°-40°	162.8	23.1
40°-50°	65.4	9.3
50°-60°	18.6	2.6
60°-70°	5.9	0.8
70°-80°	1.7	0.2
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°	449.0	63.8
0°-40°	611.8	87.0
0°-60°	695.8	98.9
0°-90°	703.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	703.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	698	
5°	685	64
15°	601	168
25°	478	216
35°	261	163
45°	81	65
55°	19	19
65°	5	6
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	697.6
2.5°	693.3
5°	684.8
7.5°	668.9
10°	648.7
12.5°	624.3
15°	601.0
17.5°	574.4
20°	545.7
22.5°	515.0
25°	477.8
27.5°	433.2
30°	381.2
32.5°	322.8
35°	261.2
37.5°	203.9
40°	152.9
42.5°	112.5
45°	80.7
47.5°	55.2
50°	38.2
52.5°	26.5
55°	19.1
57.5°	13.8
60°	10.6
62.5°	7.4
65°	5.3
67.5°	4.2
70°	3.2
72.5°	2.1
75°	1.1
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)