

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: P211067

Luminaire Tested: **LSR4B15D010BZ EC4B10209024 4LBMGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211067
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 EC4B10209024 4LBMGPH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH GRAPHITE HAZE 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: 583.5 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

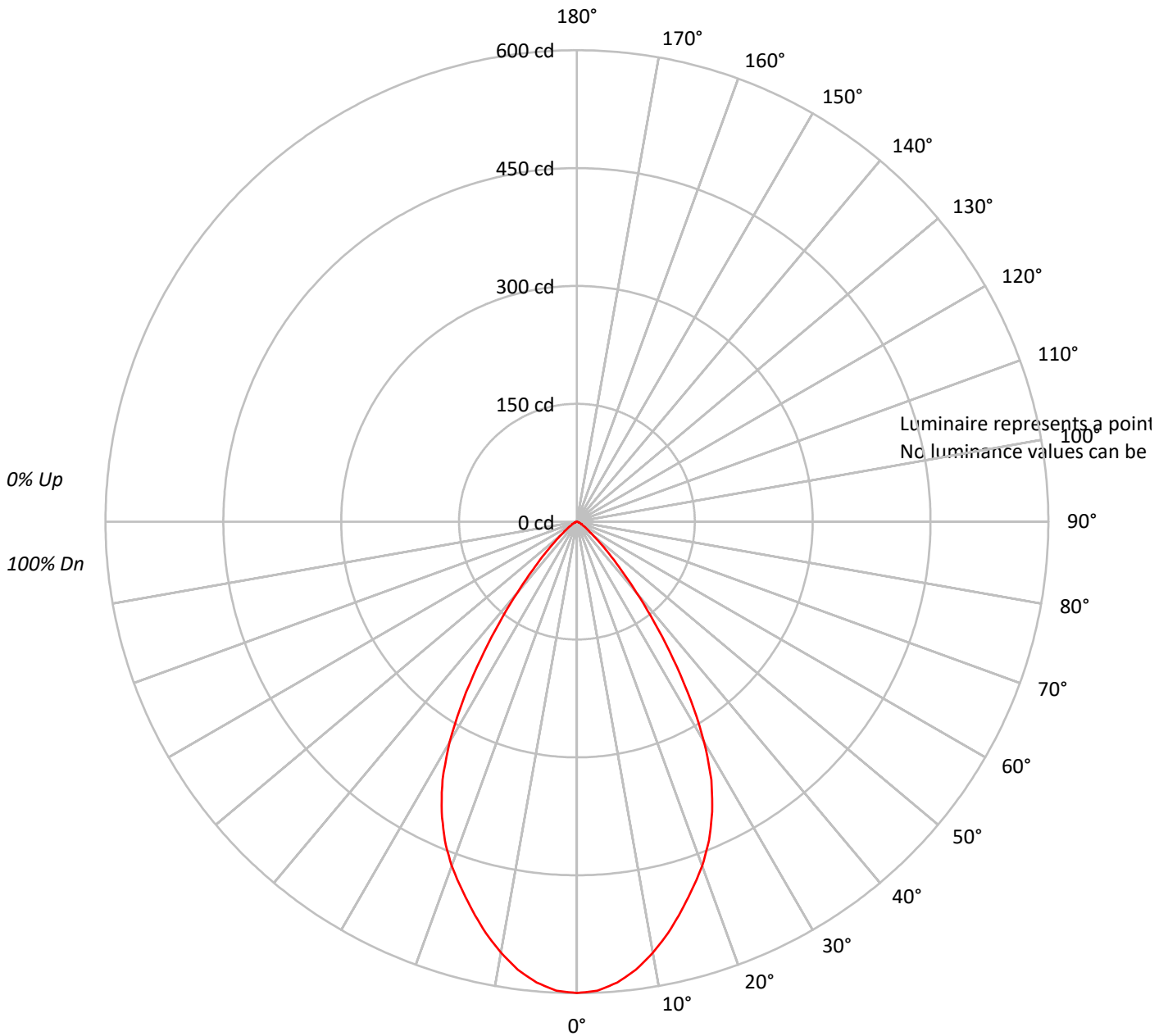
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0																					
RCR																																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			100																	
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			93																	
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88	86																			86																	
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79																			79																	
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73																			73																	
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68																			68																	
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63																			63																	
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			59																	
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55																			55																	
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51																			51																	
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	52	49	48																			48																	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	9.5
10°-20°	143.9	24.7
20°-30°	184.6	31.6
30°-40°	133.4	22.9
40°-50°	47.9	8.2
50°-60°	12.9	2.2
60°-70°	4.2	0.7
70°-80°	1.3	0.2
80°-90°	0.0	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°	383.8	65.8
0°-40°	517.2	88.6
0°-60°	578.0	99.1
0°-90°	583.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	583.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	600	
5°	589	55
15°	513	144
25°	407	185
35°	213	133
45°	58	48
55°	14	13
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	599.9
2.5°	597.4
5°	588.8
7.5°	575.3
10°	556.9
12.5°	536.1
15°	512.8
17.5°	489.4
20°	466.1
22.5°	439.2
25°	407.3
27.5°	370.5
30°	323.8
32.5°	269.9
35°	213.4
37.5°	161.9
40°	117.8
42.5°	83.4
45°	57.7
47.5°	39.3
50°	25.8
52.5°	18.4
55°	13.5
57.5°	9.8
60°	7.4
62.5°	6.1
65°	3.7
67.5°	2.5
70°	2.5
72.5°	1.2
75°	1.2
77.5°	1.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)