

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: P211406

Luminaire Tested: **LSR4B15D010BZ EC4B10208050 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211406
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 EC4B10208050 4LBWGPH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH 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: 1013.1 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

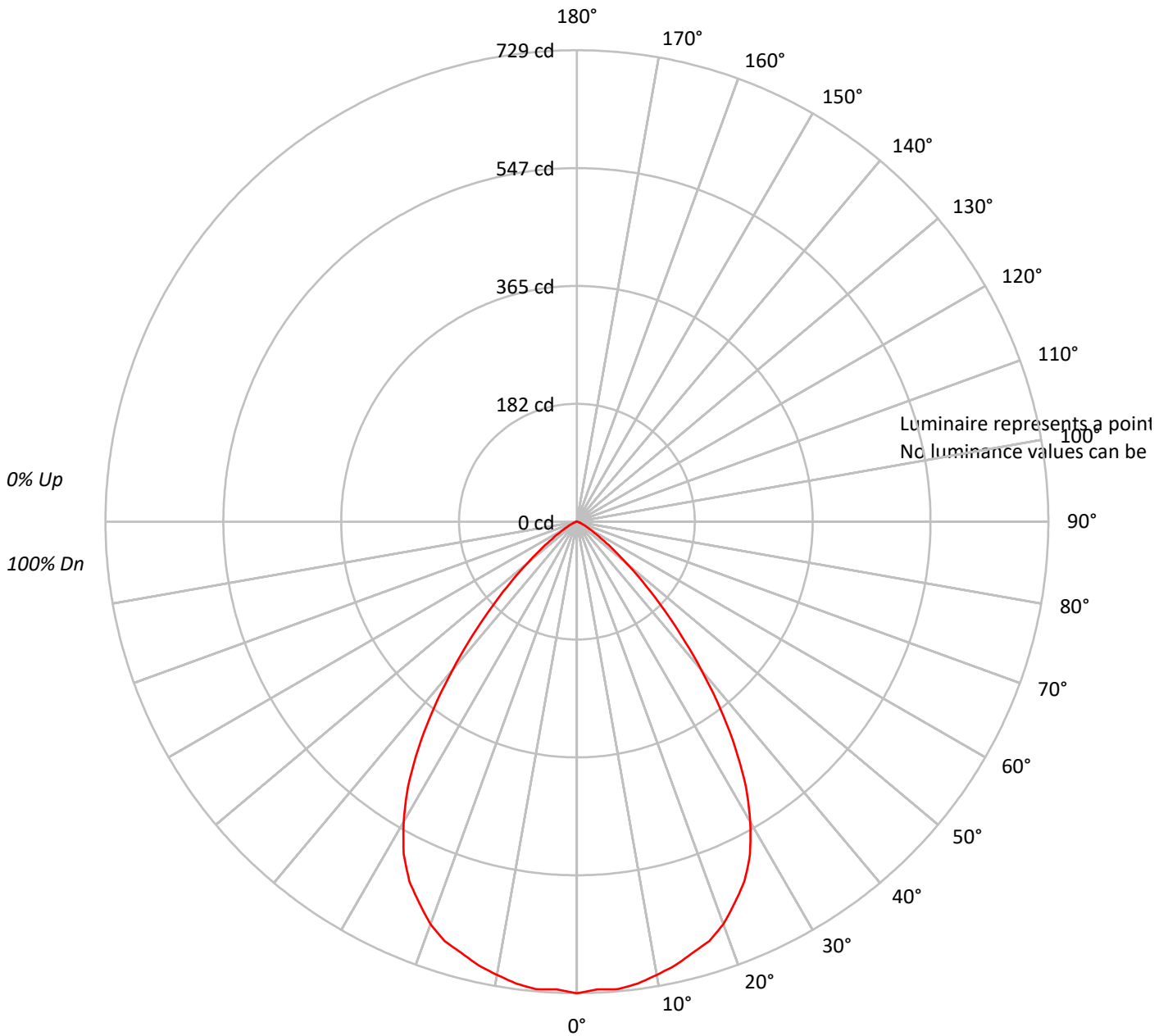
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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																																			
	1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																																			
	2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																																			
	3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76																																			
	4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69																																			
	5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63																																			
	6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57																																			
	7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53																																			
	8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48																																			
	9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45																																			
	10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41																																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	6.8
10°-20°	194.9	19.2
20°-30°	279.5	27.6
30°-40°	263.2	26.0
40°-50°	145.4	14.3
50°-60°	46.6	4.6
60°-70°	11.6	1.1
70°-80°	2.8	0.3
80°-90°	0.2	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°	543.2	53.6
0°-40°	806.4	79.6
0°-60°	998.4	98.6
0°-90°	1013.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1013.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	729	
5°	726	69
15°	690	195
25°	613	280
35°	427	263
45°	184	145
55°	47	47
65°	10	12
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	729.2
2.5°	723.9
5°	725.7
7.5°	720.4
10°	711.6
12.5°	702.8
15°	690.5
17.5°	680.0
20°	662.4
22.5°	637.8
25°	613.2
27.5°	579.8
30°	535.9
32.5°	486.7
35°	427.0
37.5°	363.7
40°	298.7
42.5°	239.0
45°	184.5
47.5°	138.8
50°	100.2
52.5°	70.3
55°	47.4
57.5°	31.6
60°	22.8
62.5°	15.8
65°	10.5
67.5°	7.0
70°	5.3
72.5°	3.5
75°	1.8
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)