

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: P211409

Luminaire Tested: **LSR4B15D010BZ EC4B10208050 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211409
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 4LBWMW1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH 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: 1352.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

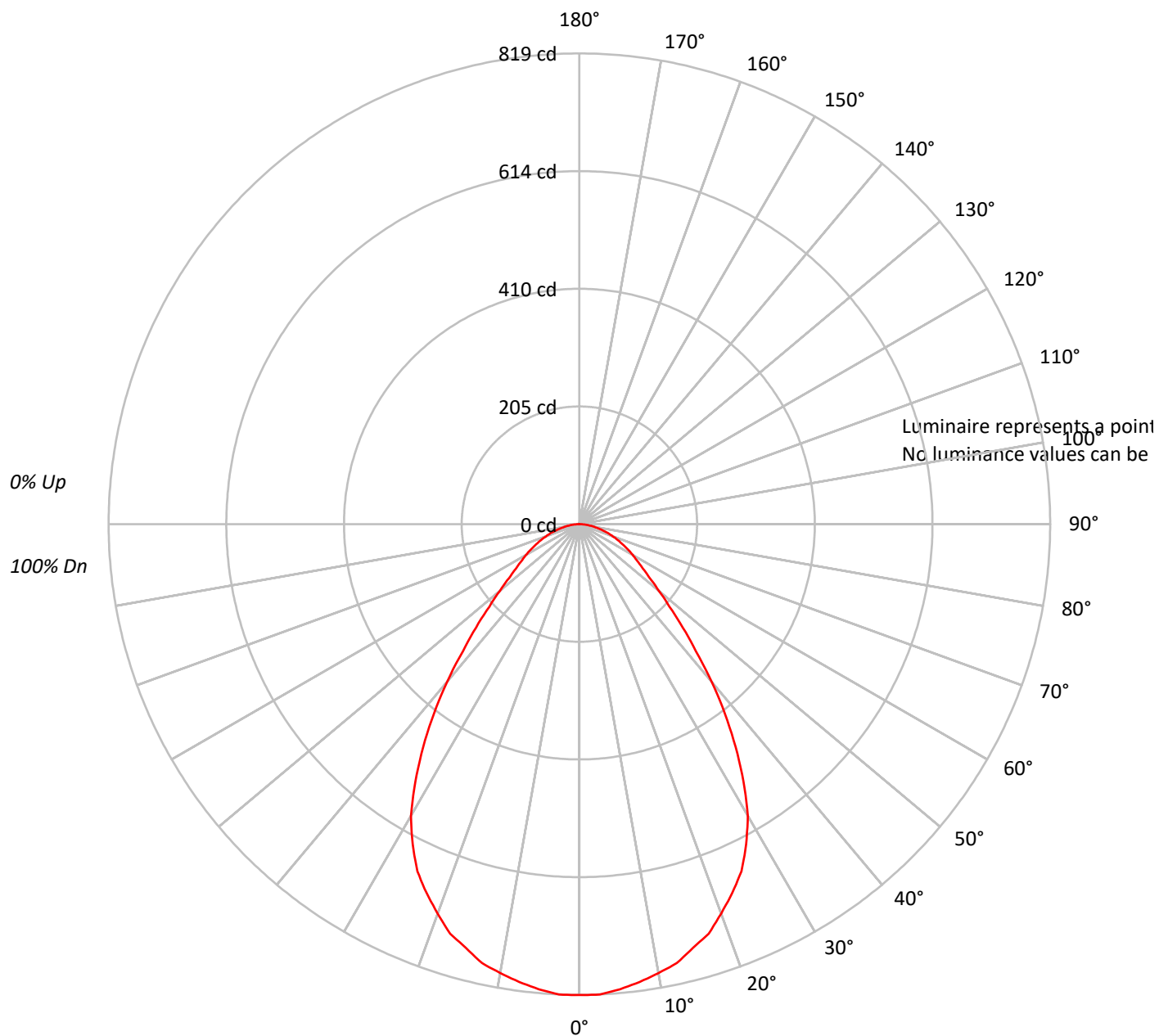
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





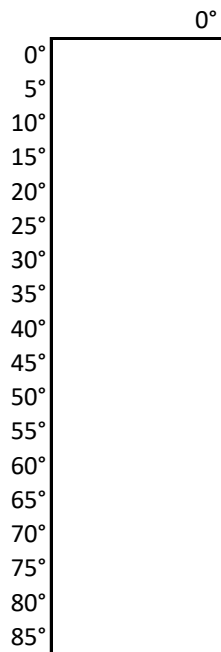
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
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	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	94	89	85	91	87	83		88	84	81		85
3	96	87	80	75	93	85	79	74	83	77	73		80	76	72		78
4	89	79	72	66	87	78	71	66	75	69	65		73	68	64		71
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		60
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	59	48	41	37	47	41	37		46	41	37		46

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	5.7
10°-20°	215.1	15.9
20°-30°	304.0	22.5
30°-40°	294.5	21.8
40°-50°	198.7	14.7
50°-60°	123.3	9.1
60°-70°	82.4	6.1
70°-80°	45.1	3.3
80°-90°	11.9	0.9
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°	596.1	44.1
0°-40°	890.6	65.9
0°-60°	1212.6	89.7
0°-90°	1352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1352.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	819	
5°	812	77
15°	763	215
25°	667	304
35°	474	294
45°	254	199
55°	135	123
65°	82	82
75°	42	45
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	819.3
2.5°	819.3
5°	812.3
7.5°	803.5
10°	793.0
12.5°	782.5
15°	763.2
17.5°	747.4
20°	721.0
22.5°	694.7
25°	666.7
27.5°	628.1
30°	586.0
32.5°	531.6
35°	473.7
37.5°	415.8
40°	357.9
42.5°	300.0
45°	254.4
47.5°	212.3
50°	180.7
52.5°	154.4
55°	135.1
57.5°	119.3
60°	107.0
62.5°	94.7
65°	82.5
67.5°	71.9
70°	61.4
72.5°	52.6
75°	42.1
77.5°	33.3
80°	24.6
82.5°	17.5
85°	10.5
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)