

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: P211438

Luminaire Tested: **LSR4B15D010BZ EC4B10209050 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211438
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 EC4B10209050 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: 1137.6 lumens
Efficiency: N/A
Efficacy: 79.6 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

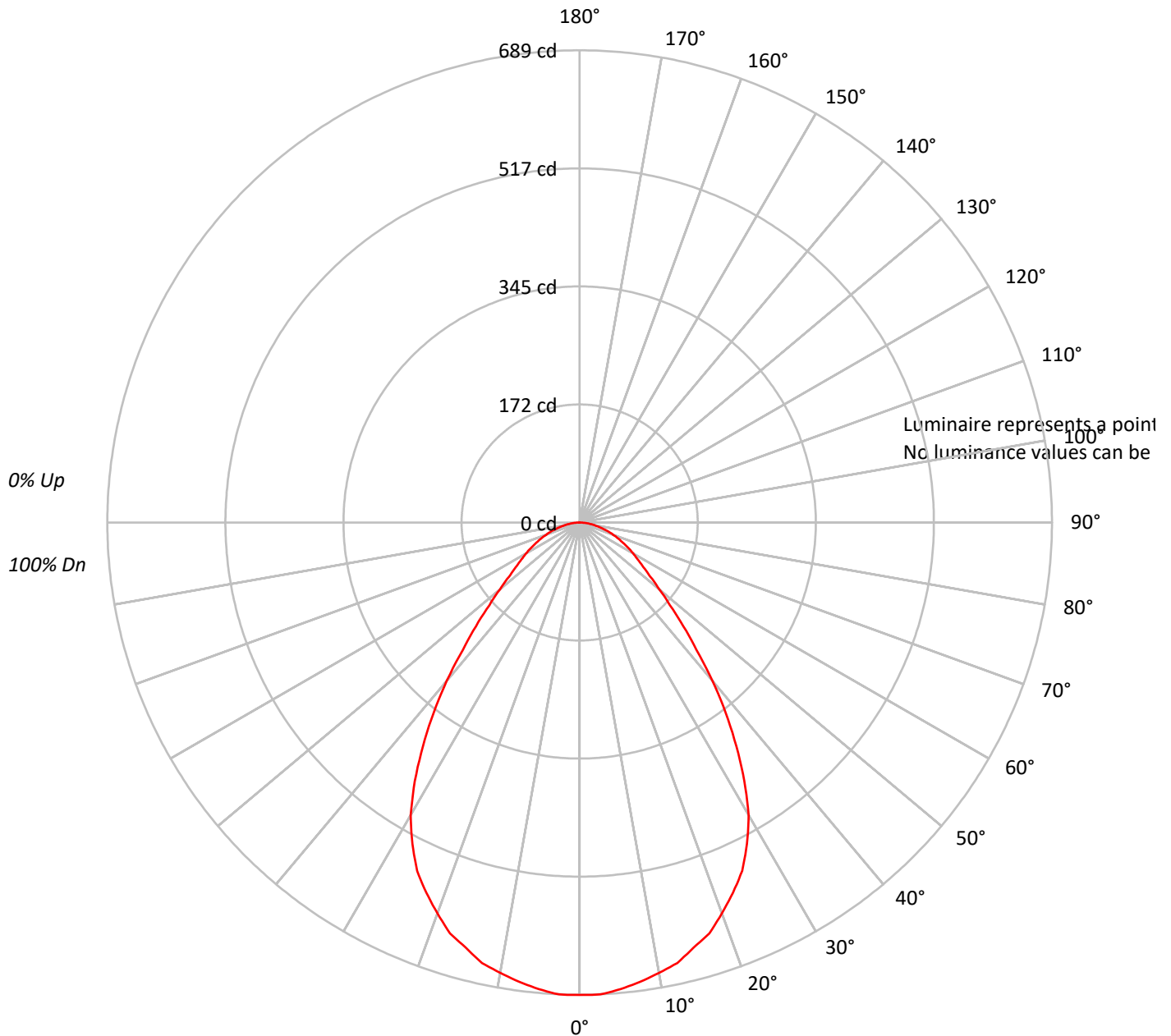
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





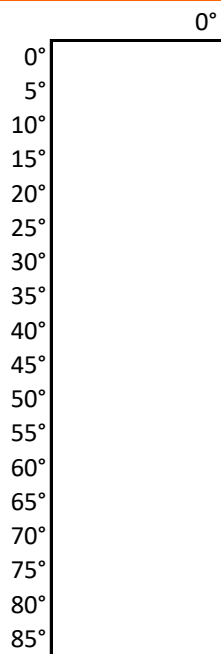
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	91	86		101	94	89	85		91	87	83		88	84	81		85	82	80
3	96	87	80	75		93	85	79	74		83	77	73		80	76	72		78	74	71
4	89	79	72	66		87	78	71	66		75	69	65		73	68	64		71	67	63
5	83	72	64	59		81	71	64	58		69	63	58		67	62	57		65	61	57
6	78	66	58	53		76	65	58	53		64	57	52		62	56	52		60	55	51
7	73	61	53	48		71	60	53	48		59	52	47		57	51	47		56	51	47
8	68	56	49	44		67	56	49	44		54	48	43		53	47	43		52	47	43
9	64	52	45	40		63	52	45	40		51	44	40		50	44	40		49	43	39
10	61	49	42	37		59	48	41	37		47	41	37		46	41	37		46	40	36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	5.7
10°-20°	181.0	15.9
20°-30°	255.8	22.5
30°-40°	247.8	21.8
40°-50°	167.2	14.7
50°-60°	103.8	9.1
60°-70°	69.4	6.1
70°-80°	37.9	3.3
80°-90°	10.1	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°	501.5	44.1
0°-40°	749.3	65.9
0°-60°	1020.2	89.7
0°-90°	1137.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	689	
5°	684	65
15°	642	181
25°	561	256
35°	399	248
45°	214	167
55°	114	104
65°	69	69
75°	35	38
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	689.4
2.5°	689.4
5°	683.5
7.5°	676.1
10°	667.2
12.5°	658.4
15°	642.1
17.5°	628.8
20°	606.7
22.5°	584.6
25°	560.9
27.5°	528.5
30°	493.0
32.5°	447.3
35°	398.6
37.5°	349.8
40°	301.1
42.5°	252.4
45°	214.0
47.5°	178.6
50°	152.0
52.5°	129.9
55°	113.7
57.5°	100.4
60°	90.0
62.5°	79.7
65°	69.4
67.5°	60.5
70°	51.7
72.5°	44.3
75°	35.4
77.5°	28.0
80°	20.7
82.5°	14.8
85°	8.9
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)