

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: P211351

Luminaire Tested: **LE_4B15D010 EC4B10208040 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211351
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: LE_4B15D010 EC4B10208040 4LBW1MW
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: 1569.2 lumens
Efficiency: N/A
Efficacy: 109.7 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

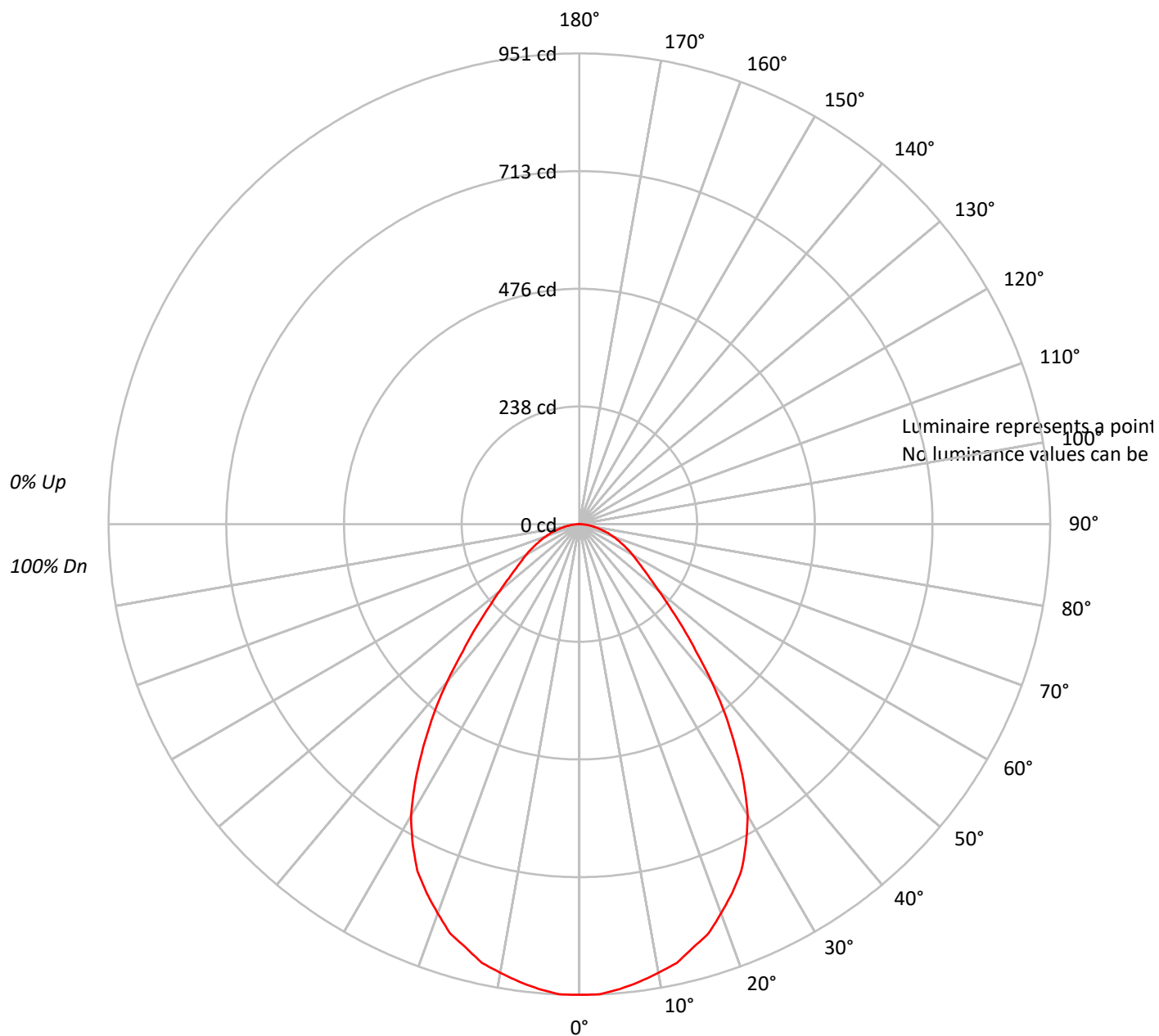
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	89.3	5.7
10°-20°	249.7	15.9
20°-30°	352.8	22.5
30°-40°	341.8	21.8
40°-50°	230.6	14.7
50°-60°	143.2	9.1
60°-70°	95.7	6.1
70°-80°	52.3	3.3
80°-90°	13.9	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°	691.8	44.1
0°-40°	1033.6	65.9
0°-60°	1407.3	89.7
0°-90°	1569.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	951	
5°	943	89
15°	886	250
25°	774	353
35°	550	342
45°	295	231
55°	157	143
65°	96	96
75°	49	52
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	950.9
2.5°	950.9
5°	942.7
7.5°	932.5
10°	920.3
12.5°	908.2
15°	885.8
17.5°	867.4
20°	836.8
22.5°	806.3
25°	773.7
27.5°	728.9
30°	680.1
32.5°	617.0
35°	549.7
37.5°	482.6
40°	415.4
42.5°	348.2
45°	295.2
47.5°	246.4
50°	209.7
52.5°	179.2
55°	156.8
57.5°	138.5
60°	124.2
62.5°	110.0
65°	95.7
67.5°	83.5
70°	71.2
72.5°	61.1
75°	48.8
77.5°	38.7
80°	28.5
82.5°	20.4
85°	12.2
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)