

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: **LE_4B15D010 EC4B10208050 4LBW1MW**

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: LE_4B15D010 EC4B10208050 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: 1568.4 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

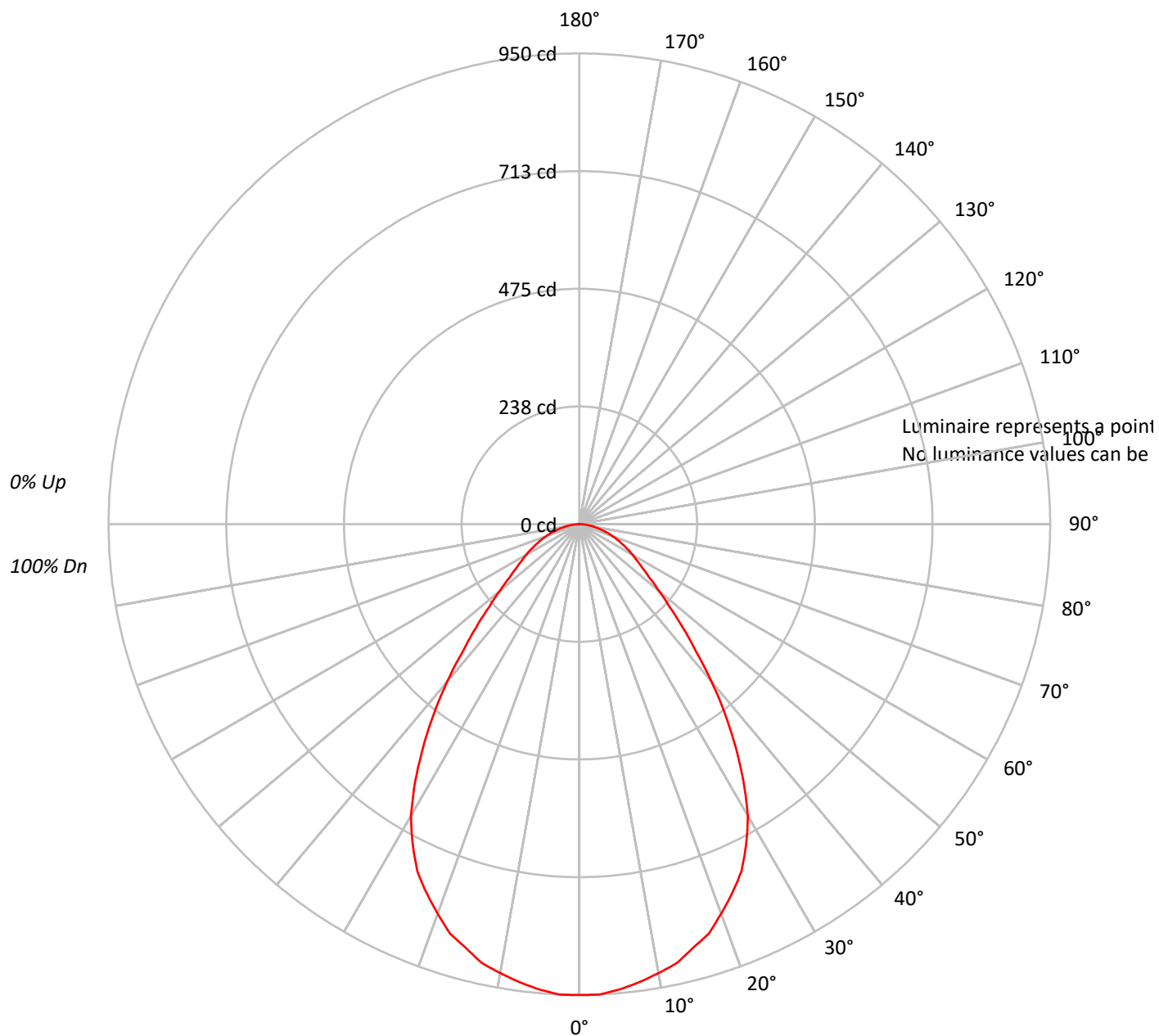
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78	
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69	
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61	
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55	
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50	
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45	
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38	
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	5.7
10°-20°	249.5	15.9
20°-30°	352.7	22.5
30°-40°	341.6	21.8
40°-50°	230.5	14.7
50°-60°	143.1	9.1
60°-70°	95.6	6.1
70°-80°	52.3	3.3
80°-90°	13.8	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°	691.5	44.1
0°-40°	1033.1	65.9
0°-60°	1406.7	89.7
0°-90°	1568.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	950	
5°	942	89
15°	885	250
25°	773	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°	950.4
2.5°	950.4
5°	942.3
7.5°	932.1
10°	919.9
12.5°	907.7
15°	885.3
17.5°	867.0
20°	836.4
22.5°	805.9
25°	773.4
27.5°	728.6
30°	679.8
32.5°	616.7
35°	549.5
37.5°	482.3
40°	415.2
42.5°	348.0
45°	295.1
47.5°	246.3
50°	209.6
52.5°	179.1
55°	156.7
57.5°	138.4
60°	124.1
62.5°	109.9
65°	95.7
67.5°	83.4
70°	71.2
72.5°	61.0
75°	48.8
77.5°	38.6
80°	28.5
82.5°	20.3
85°	12.2
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)