

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: P210844

Luminaire Tested: **LE_4B10D010 EC4B10209030 4LBN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210844
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_4B10D010 EC4B10209030 4LBN1MW
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 758.9 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

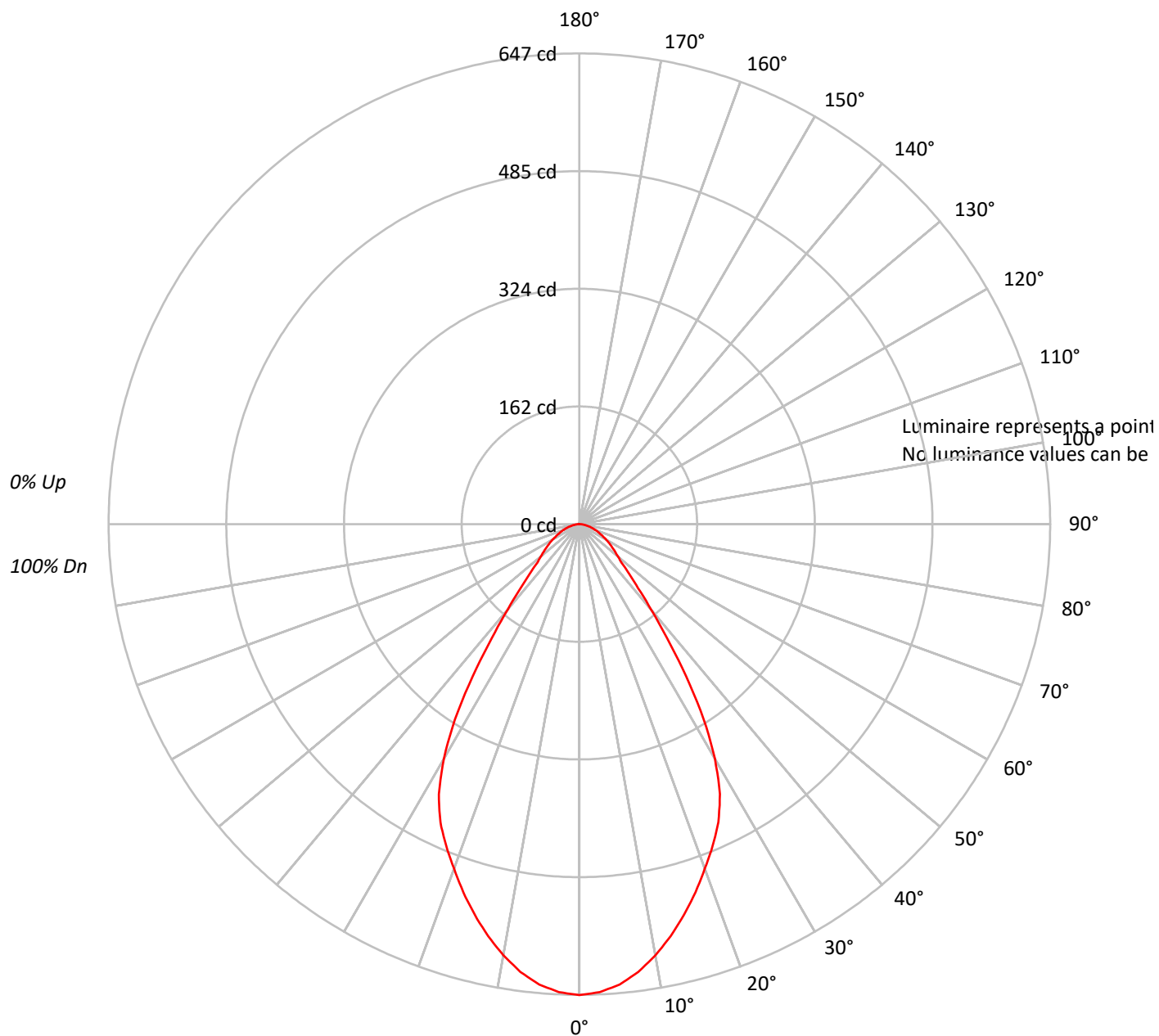
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	90	84	80	96	89	83	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	76	71	80	74	70		78	73	69		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	82	71	64	59	80	70	64	59	69	63	58		67	62	58		66
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62
8	73	62	55	50	71	61	55	50	60	54	50		59	53	49		58
9	69	58	51	46	68	57	51	46	56	50	46		55	50	46		54
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	7.8
10°-20°	155.8	20.5
20°-30°	205.1	27.0
30°-40°	159.6	21.0
40°-50°	77.5	10.2
50°-60°	49.0	6.5
60°-70°	31.6	4.2
70°-80°	16.6	2.2
80°-90°	4.1	0.5
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°	420.5	55.4
0°-40°	580.1	76.4
0°-60°	706.7	93.1
0°-90°	758.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	758.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	647	
5°	635	60
15°	556	156
25°	452	205
35°	256	160
45°	96	78
55°	54	49
65°	31	32
75°	16	17
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	647.4
2.5°	643.8
5°	635.3
7.5°	620.8
10°	601.6
12.5°	579.9
15°	555.8
17.5°	530.5
20°	503.9
22.5°	478.6
25°	452.1
27.5°	418.3
30°	372.5
32.5°	318.3
35°	255.5
37.5°	197.7
40°	153.1
42.5°	119.4
45°	96.4
47.5°	78.4
50°	68.7
52.5°	61.5
55°	54.3
57.5°	48.3
60°	42.2
62.5°	36.2
65°	31.3
67.5°	27.7
70°	22.9
72.5°	19.3
75°	15.7
77.5°	12.1
80°	8.5
82.5°	6.0
85°	3.6
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)