

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: P210829

Luminaire Tested: **LE_4B10D010 EC4B10208030 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210829
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 EC4B10208030 4LBW1MW
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 1087.7 lumens
Efficiency: N/A
Efficacy: 109.9 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

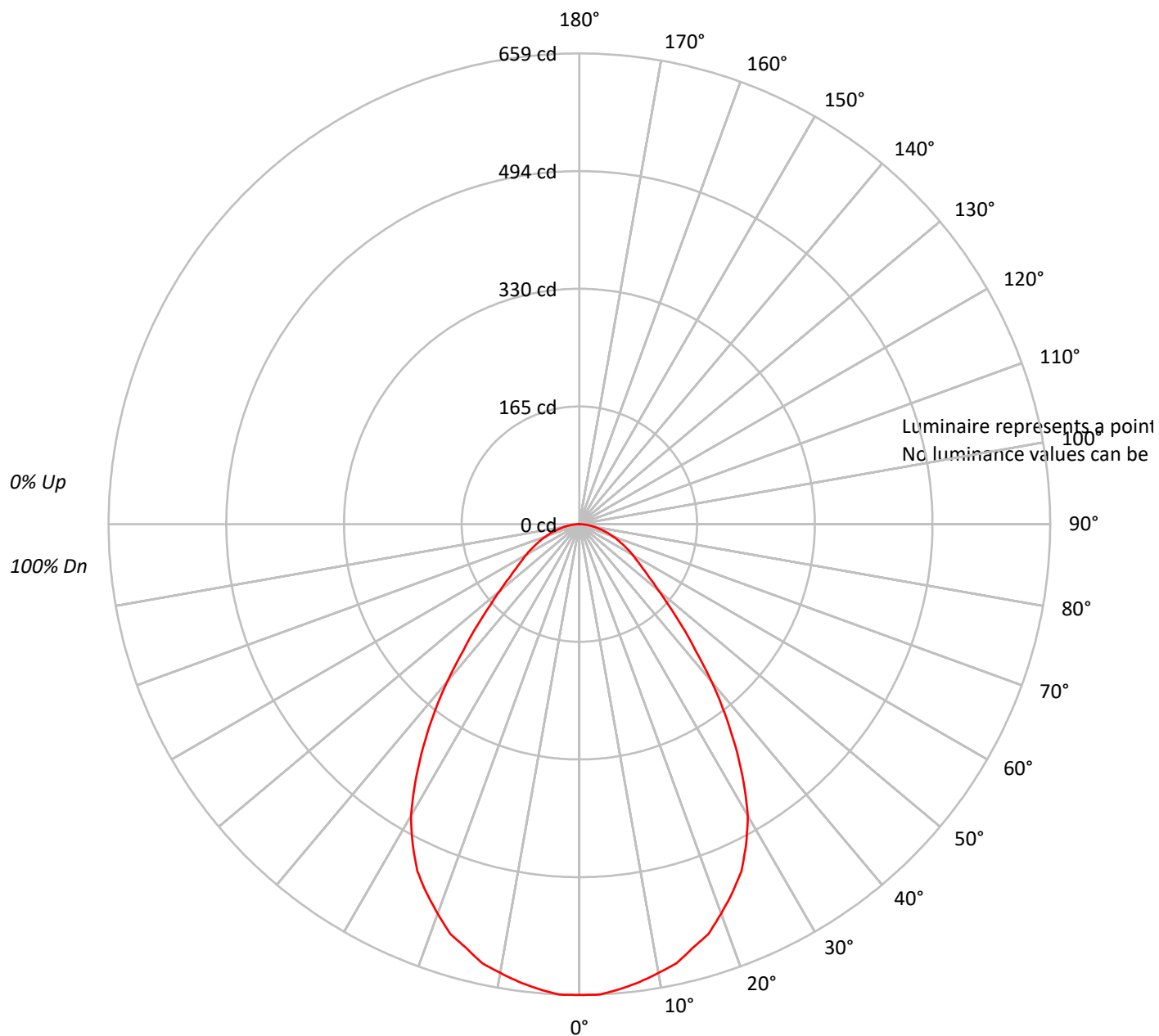
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





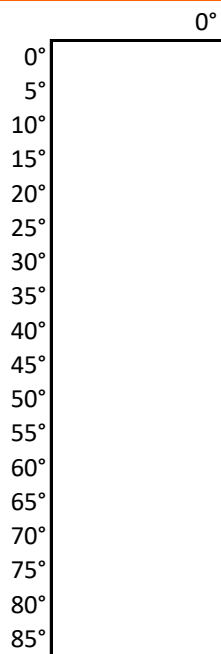
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	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°	61.9	5.7
10°-20°	173.1	15.9
20°-30°	244.6	22.5
30°-40°	236.9	21.8
40°-50°	159.9	14.7
50°-60°	99.2	9.1
60°-70°	66.3	6.1
70°-80°	36.3	3.3
80°-90°	9.6	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°	479.6	44.1
0°-40°	716.5	65.9
0°-60°	975.5	89.7
0°-90°	1087.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1087.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	659	
5°	654	62
15°	614	173
25°	536	245
35°	381	237
45°	205	160
55°	109	99
65°	66	66
75°	34	36
85°	8	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	659.2
2.5°	659.2
5°	653.5
7.5°	646.5
10°	638.0
12.5°	629.5
15°	614.0
17.5°	601.3
20°	580.1
22.5°	559.0
25°	536.4
27.5°	505.3
30°	471.4
32.5°	427.7
35°	381.1
37.5°	334.5
40°	287.9
42.5°	241.4
45°	204.6
47.5°	170.8
50°	145.3
52.5°	124.2
55°	108.7
57.5°	95.9
60°	86.1
62.5°	76.2
65°	66.4
67.5°	57.9
70°	49.4
72.5°	42.3
75°	33.9
77.5°	26.8
80°	19.7
82.5°	14.2
85°	8.5
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)