

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: P210850

Luminaire Tested: **LE_4B10D010 EC4B10209030 4LBS1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210850
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 4LBS1LI
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR 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: 1089.5 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

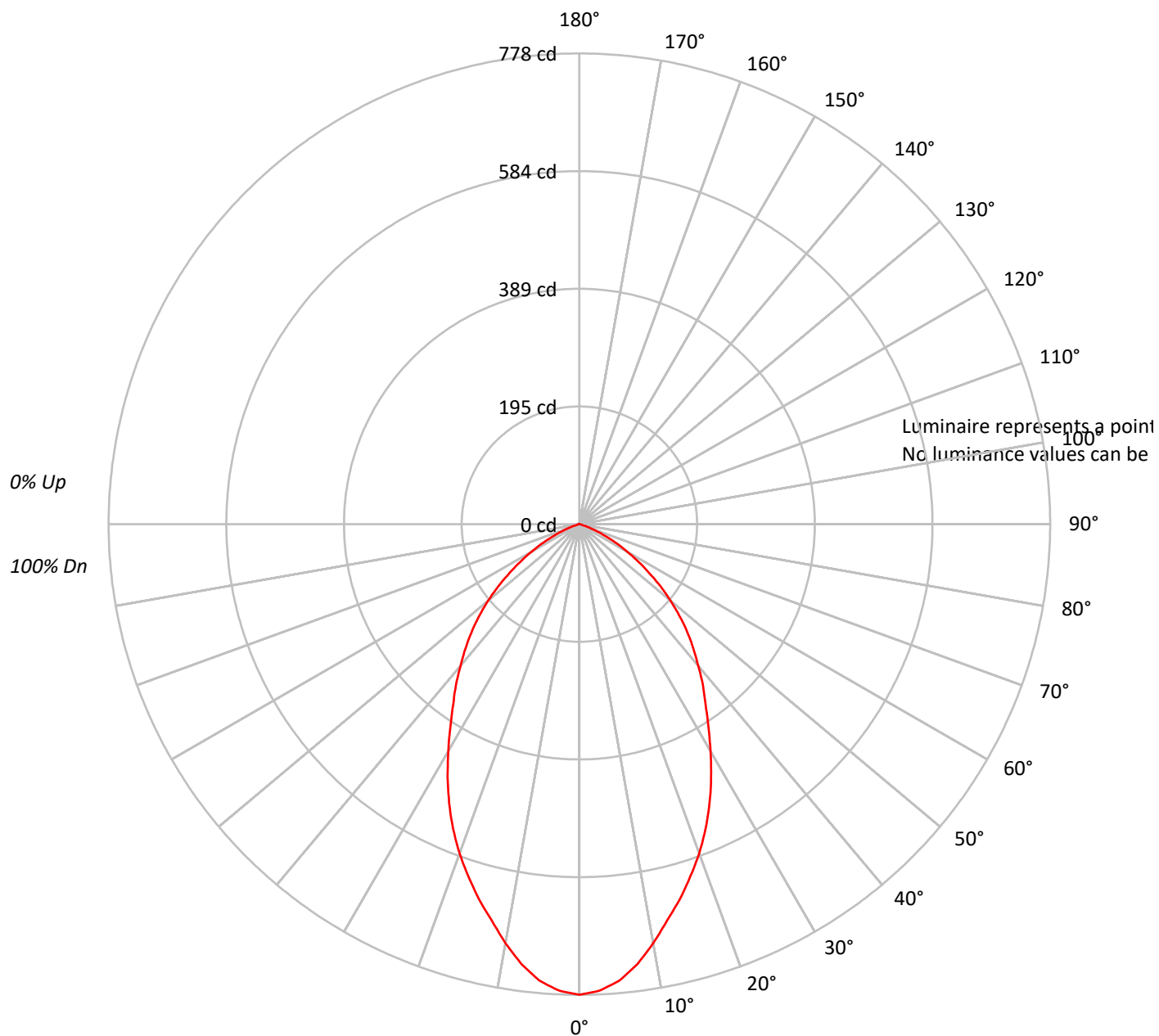
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	104	98	93	88	102	96	91	87	93	89	85		90	86	84		87
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		79
4	90	81	73	68	88	79	73	68	77	71	67		75	70	66		73
5	84	73	66	61	82	72	65	60	70	64	60		69	63	59		67
6	79	67	60	54	77	66	59	54	65	58	54		63	58	53		62
7	74	62	54	49	72	61	54	49	60	53	49		58	53	48		57
8	69	57	50	45	68	57	50	45	55	49	45		54	49	44		53
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50
10	61	50	43	38	60	49	42	38	48	42	38		47	42	38		46

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	6.5
10°-20°	179.9	16.5
20°-30°	233.1	21.4
30°-40°	228.4	21.0
40°-50°	193.6	17.8
50°-60°	126.9	11.6
60°-70°	51.0	4.7
70°-80°	5.8	0.5
80°-90°	0.2	0.0
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°	483.6	44.4
0°-40°	712.0	65.3
0°-60°	1032.5	94.8
0°-90°	1089.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	778	
5°	758	71
15°	642	180
25°	509	233
35°	363	228
45°	252	194
55°	141	127
65°	49	51
75°	2	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	777.9
2.5°	771.9
5°	757.5
7.5°	733.4
10°	703.2
12.5°	670.6
15°	641.6
17.5°	610.3
20°	579.0
22.5°	545.2
25°	509.0
27.5°	471.5
30°	433.0
32.5°	396.8
35°	363.1
37.5°	335.2
40°	305.2
42.5°	278.6
45°	252.1
47.5°	224.3
50°	196.6
52.5°	168.9
55°	141.1
57.5°	115.8
60°	91.6
62.5°	69.9
65°	49.4
67.5°	32.6
70°	19.3
72.5°	8.5
75°	2.4
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)