

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: P210770

Luminaire Tested: **LE_4B10D010 EC4B10209027 4LBW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35289)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LE_4B10D010 EC4B10209027 4LBW1LI
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 1012.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

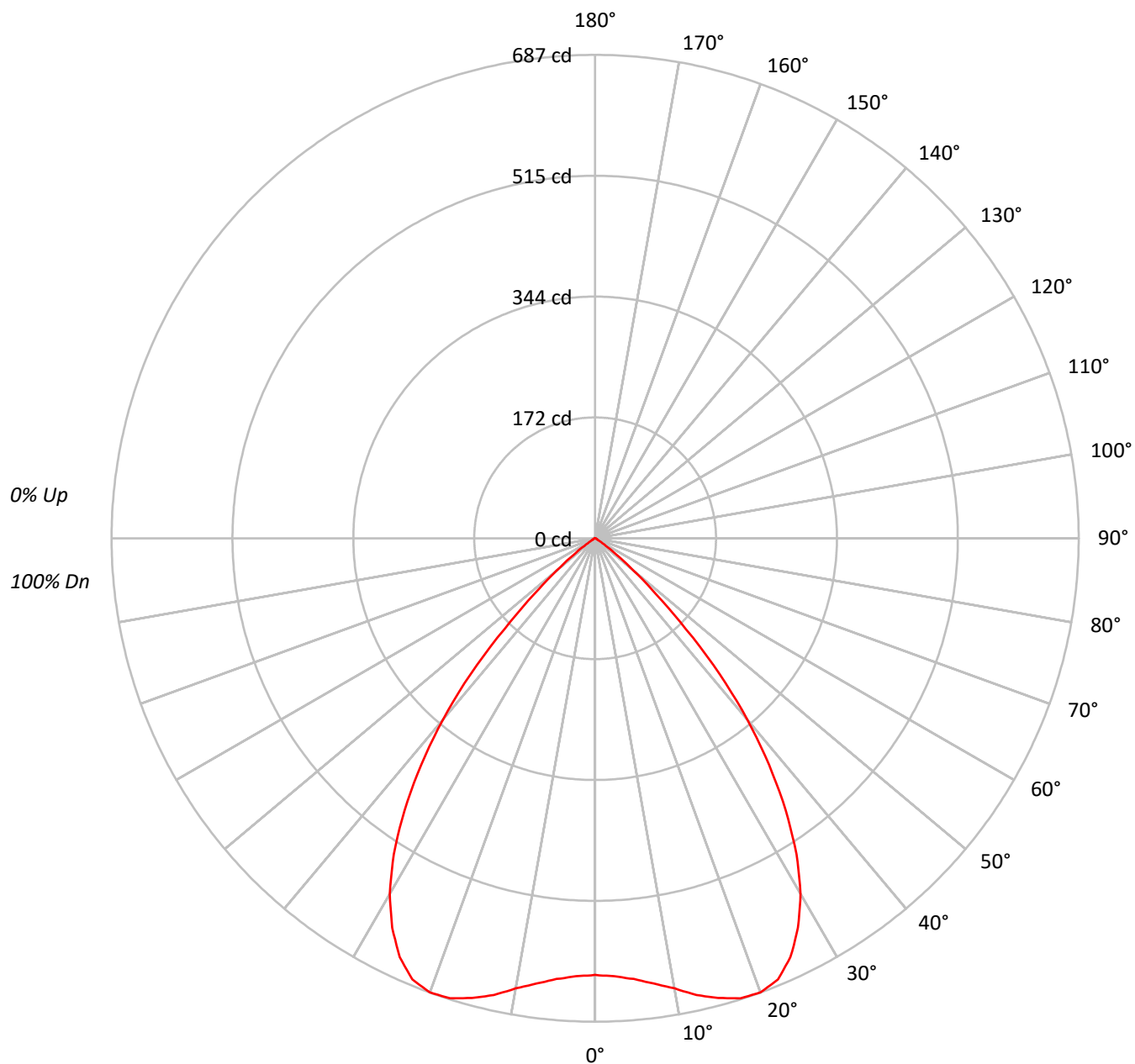
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105	110	108	105	103		104	102	100		100	98	97		96	95	94
2	106	101	97	93	104	99	95	92		96	93	90		93	90	88		90	88	86
3	100	93	87	83	98	92	86	82		89	85	81		86	83	80		84	81	78
4	94	86	79	75	92	84	79	74		82	77	73		80	76	72		78	75	72
5	88	79	72	68	87	78	72	67		76	71	67		74	70	66		73	69	65
6	83	73	66	62	82	72	66	61		71	65	61		69	64	60		68	63	60
7	78	68	61	56	77	67	61	56		66	60	56		64	59	55		63	59	55
8	74	63	56	52	72	62	56	51		61	55	51		60	55	51		59	54	51
9	69	59	52	48	68	58	52	47		57	51	47		56	51	47		55	50	47
10	66	55	48	44	65	54	48	44		53	48	44		53	47	44		52	47	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67807
5°	68955
10°	72071
15°	76500
20°	79845
25°	79157
30°	73616
35°	62970
40°	47981
45°	28138
50°	12035
55°	3543
60°	1005
65°	595
70°	383
75°	507
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	6.0
10°-20°	191.5	18.9
20°-30°	298.8	29.5
30°-40°	290.7	28.7
40°-50°	145.2	14.3
50°-60°	22.5	2.2
60°-70°	2.7	0.3
70°-80°	0.8	0.1
80°-90°	0.0	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°	551.0	54.4
0°-40°	841.7	83.1
0°-60°	1009.4	99.7
0°-90°	1012.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1012.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	621	
5°	629	61
15°	676	192
25°	657	299
35°	472	291
45°	182	145
55°	19	22
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	620.6
2.5°	622.9
5°	628.7
7.5°	638.0
10°	649.6
12.5°	664.7
15°	676.3
17.5°	685.6
20°	686.7
22.5°	678.6
25°	656.6
27.5°	624.1
30°	583.5
32.5°	532.4
35°	472.1
37.5°	406.0
40°	336.4
42.5°	262.2
45°	182.1
47.5°	117.2
50°	70.8
52.5°	38.3
55°	18.6
57.5°	8.1
60°	4.6
62.5°	3.5
65°	2.3
67.5°	2.3
70°	1.2
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)