

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: P210748

Luminaire Tested: **LE_4B10D010 EC4B10209027 4LBM1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35175)
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 4LBM1GPH
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH GRAPHITE HAZE 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: 551.8 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

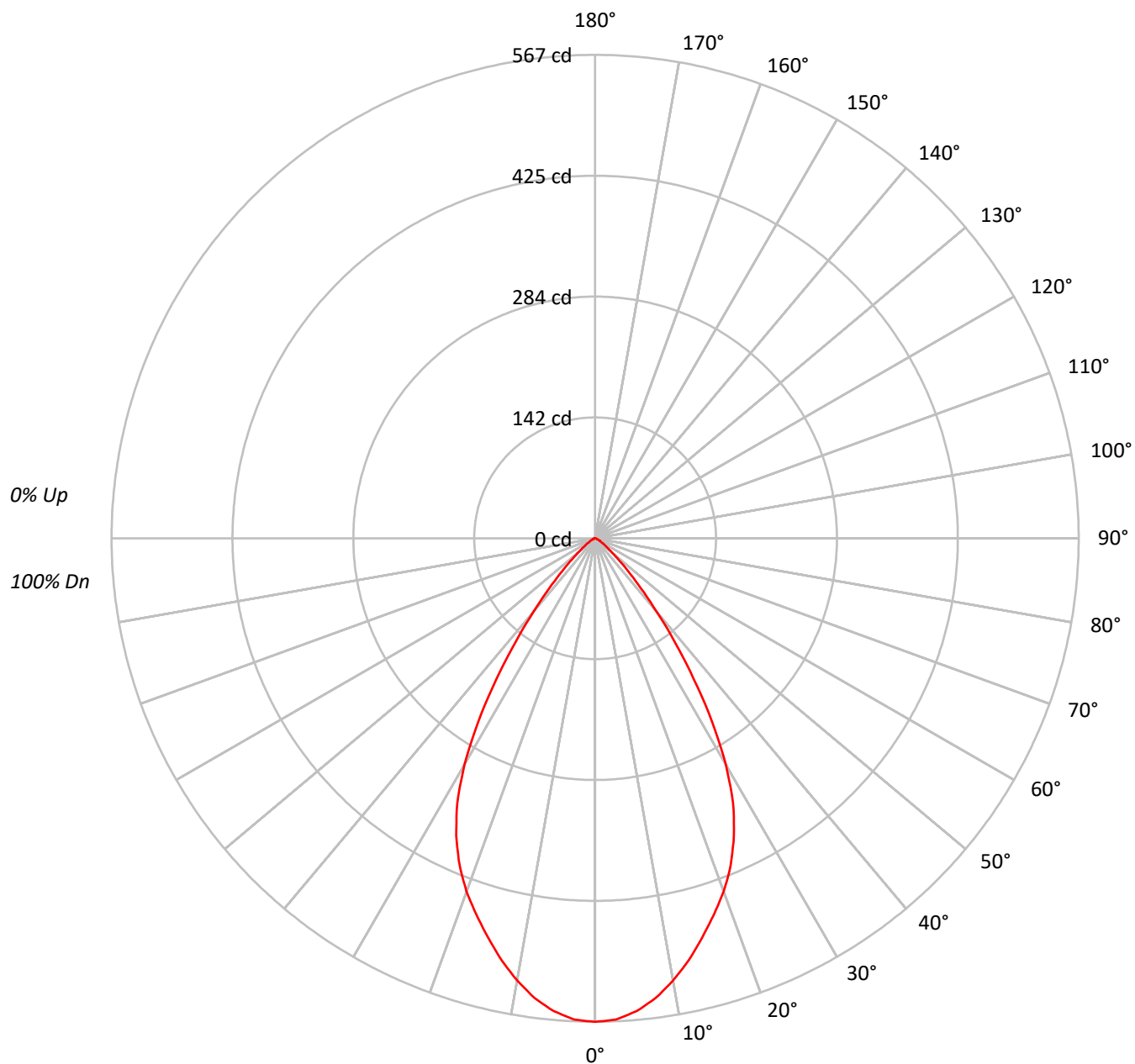
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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	108	105		111	108	106	104		104	102	101		100	99	98		97	96	95
2	107	102	98	94		105	100	97	93		97	94	91		94	92	89		91	89	88
3	102	95	90	85		100	93	89	85		91	87	83		88	85	82		86	83	81
4	96	88	82	78		94	87	82	78		85	80	77		83	79	76		81	78	75
5	91	82	76	72		89	81	76	71		79	74	71		78	73	70		76	72	69
6	86	77	71	66		85	76	70	66		74	69	65		73	68	65		72	68	64
7	82	72	66	61		80	71	65	61		70	65	61		69	64	60		68	63	60
8	77	67	61	57		76	67	61	57		66	60	57		65	60	56		64	59	56
9	73	63	57	53		72	63	57	53		62	57	53		61	56	53		60	56	52
10	70	60	54	50		69	59	54	50		59	53	50		58	53	49		57	52	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61973
5°	61069
10°	58424
15°	54849
20°	51253
25°	46426
30°	38631
35°	26917
40°	15889
45°	8421
50°	4148
55°	2438
60°	1530
65°	905
70°	735
75°	507
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	9.5
10°-20°	136.1	24.7
20°-30°	174.6	31.6
30°-40°	126.2	22.9
40°-50°	45.2	8.2
50°-60°	12.2	2.2
60°-70°	4.0	0.7
70°-80°	1.3	0.2
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°	362.9	65.8
0°-40°	489.1	88.6
0°-60°	546.5	99.0
0°-90°	551.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	567	
5°	557	52
15°	485	136
25°	385	175
35°	202	126
45°	54	45
55°	13	12
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	567.2
2.5°	564.9
5°	556.8
7.5°	544.0
10°	526.6
12.5°	506.9
15°	484.9
17.5°	462.8
20°	440.8
22.5°	415.3
25°	385.1
27.5°	350.3
30°	306.2
32.5°	255.2
35°	201.8
37.5°	153.1
40°	111.4
42.5°	78.9
45°	54.5
47.5°	37.1
50°	24.4
52.5°	17.4
55°	12.8
57.5°	9.3
60°	7.0
62.5°	5.8
65°	3.5
67.5°	2.3
70°	2.3
72.5°	1.2
75°	1.2
77.5°	1.2
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)