

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: P210763

Luminaire Tested: **LE_4B10D010 EC4B10209027 4LBS1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35292)
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 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: 1047.9 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

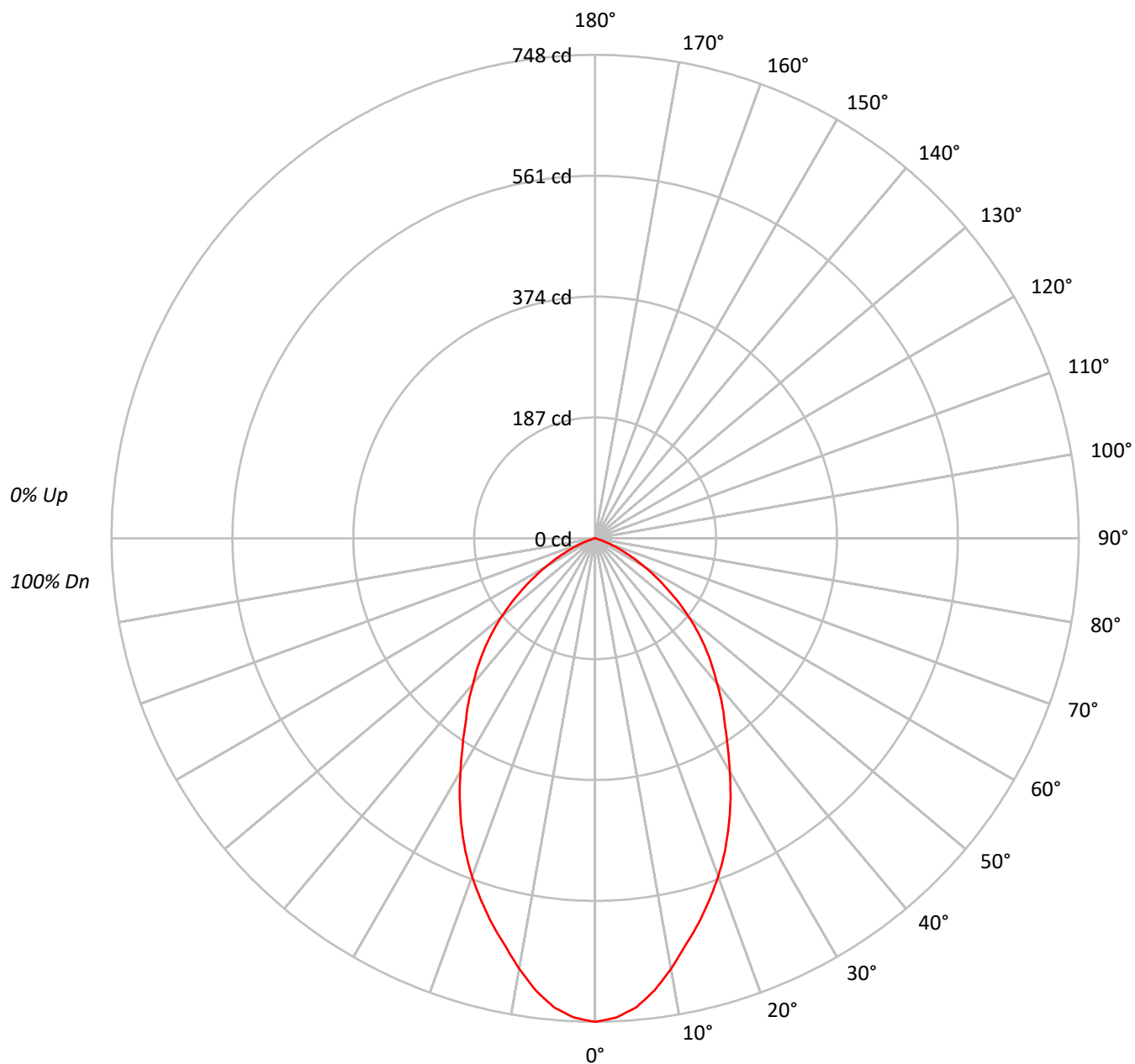
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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):

	0°
0°	81749
5°	79901
10°	75033
15°	69803
20°	64741
25°	59012
30°	52534
35°	46577
40°	41862
45°	37455
50°	32143
55°	25850
60°	19274
65°	12306
70°	5942
75°	971
80°	755
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	6.5
10°-20°	173.0	16.5
20°-30°	224.2	21.4
30°-40°	219.7	21.0
40°-50°	186.2	17.8
50°-60°	122.1	11.6
60°-70°	49.1	4.7
70°-80°	5.6	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°	465.1	44.4
0°-40°	684.8	65.3
0°-60°	993.1	94.8
0°-90°	1047.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1047.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	748	
5°	728	68
15°	617	173
25°	490	224
35°	349	220
45°	242	186
55°	136	122
65°	48	49
75°	2	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	748.2
2.5°	742.4
5°	728.5
7.5°	705.3
10°	676.3
12.5°	645.0
15°	617.1
17.5°	587.0
20°	556.8
22.5°	524.3
25°	489.5
27.5°	453.6
30°	416.4
32.5°	381.6
35°	349.2
37.5°	322.5
40°	293.5
42.5°	268.0
45°	242.4
47.5°	215.8
50°	189.1
52.5°	162.4
55°	135.7
57.5°	111.4
60°	88.2
62.5°	67.3
65°	47.6
67.5°	31.3
70°	18.6
72.5°	8.1
75°	2.3
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)