

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: P210751

Luminaire Tested: **LE_4B10D010 EC4B10209027 4LBM1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35177)
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 4LBM1MW
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 800.7 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

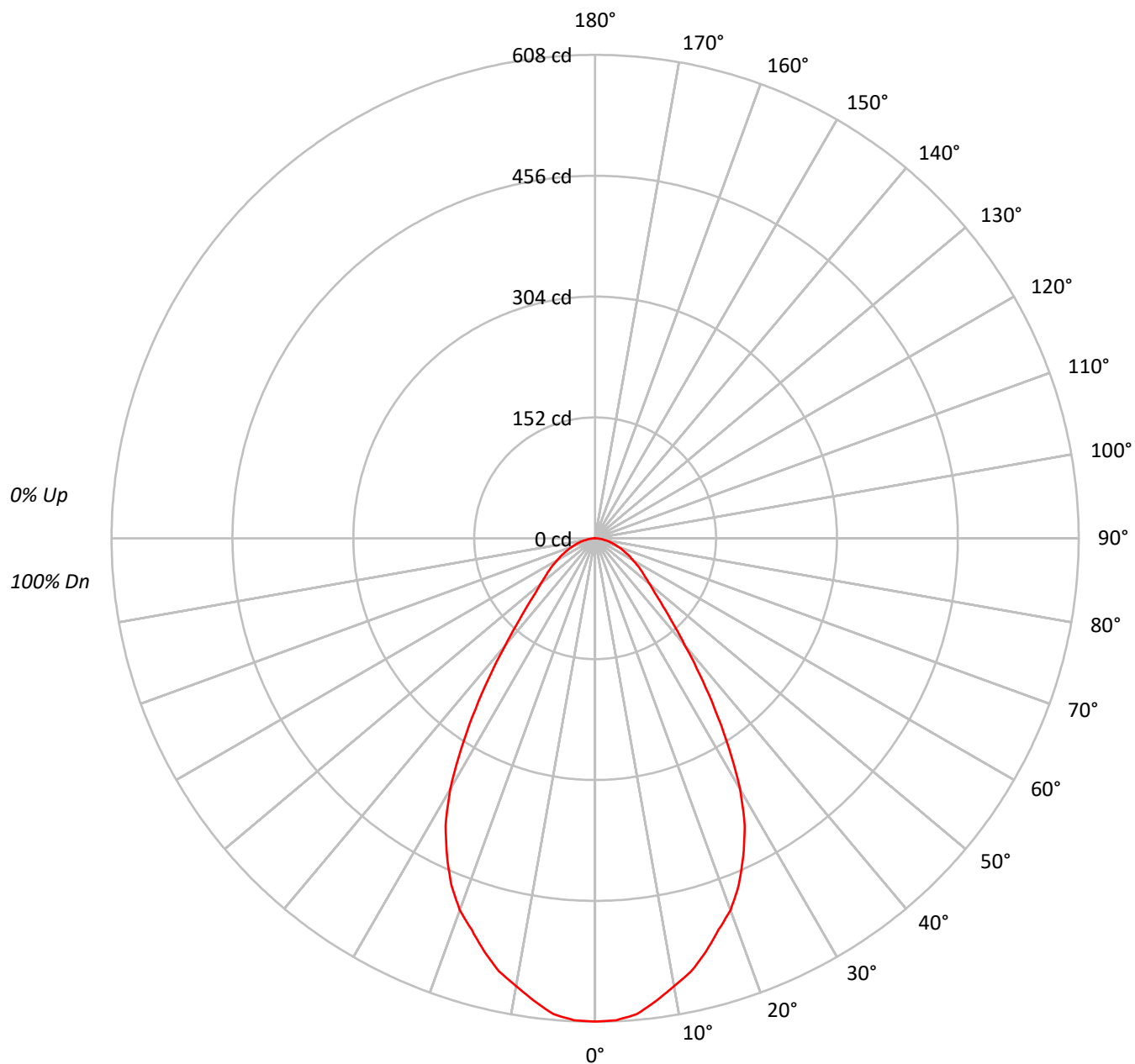
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102		109	106	103	100		102	99	97		98	96	94		94	93	91
2	104	98	92	88		102	96	91	87		93	89	85		89	86	83		87	84	81
3	97	89	83	77		95	87	82	77		85	80	76		82	78	74		80	76	73
4	91	81	74	69		89	80	74	69		78	72	68		76	71	67		74	69	66
5	85	75	67	62		83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	62	56		78	68	61	56		66	60	56		65	59	55		63	59	55
7	75	64	57	52		74	63	56	51		62	56	51		60	55	51		59	54	50
8	71	59	52	47		69	59	52	47		58	51	47		56	51	47		55	50	47
9	67	55	48	44		66	55	48	44		54	48	44		53	47	43		52	47	43
10	63	52	45	41		62	51	45	41		51	45	40		50	44	40		49	44	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66409
5°	65906
10°	63450
15°	60879
20°	57857
25°	53141
30°	45949
35°	34973
40°	24989
45°	18635
50°	15179
55°	13487
60°	11909
65°	10807
70°	9648
75°	8823
80°	7299
85°	5767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	7.0
10°-20°	151.0	18.9
20°-30°	200.8	25.1
30°-40°	164.3	20.5
40°-50°	95.7	11.9
50°-60°	63.5	7.9
60°-70°	41.7	5.2
70°-80°	22.0	2.7
80°-90°	5.4	0.7
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°	408.2	51.0
0°-40°	572.5	71.5
0°-60°	731.6	91.4
0°-90°	800.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	608	
5°	601	56
15°	538	151
25°	441	201
35°	262	164
45°	121	96
55°	71	63
65°	42	42
75°	21	22
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	607.8
2.5°	606.7
5°	600.9
7.5°	587.0
10°	571.9
12.5°	558.0
15°	538.2
17.5°	516.2
20°	497.6
22.5°	472.1
25°	440.8
27.5°	407.2
30°	364.2
32.5°	313.2
35°	262.2
37.5°	215.8
40°	175.2
42.5°	143.8
45°	120.6
47.5°	102.1
50°	89.3
52.5°	78.9
55°	70.8
57.5°	62.6
60°	54.5
62.5°	48.7
65°	41.8
67.5°	36.0
70°	30.2
72.5°	25.5
75°	20.9
77.5°	16.2
80°	11.6
82.5°	8.1
85°	4.6
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)