

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: P210749

Luminaire Tested: **LE_4B10D010 EC4B10209027 4LBM1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35173)
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 4LBM1H
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH SEMI-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: 768.6 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

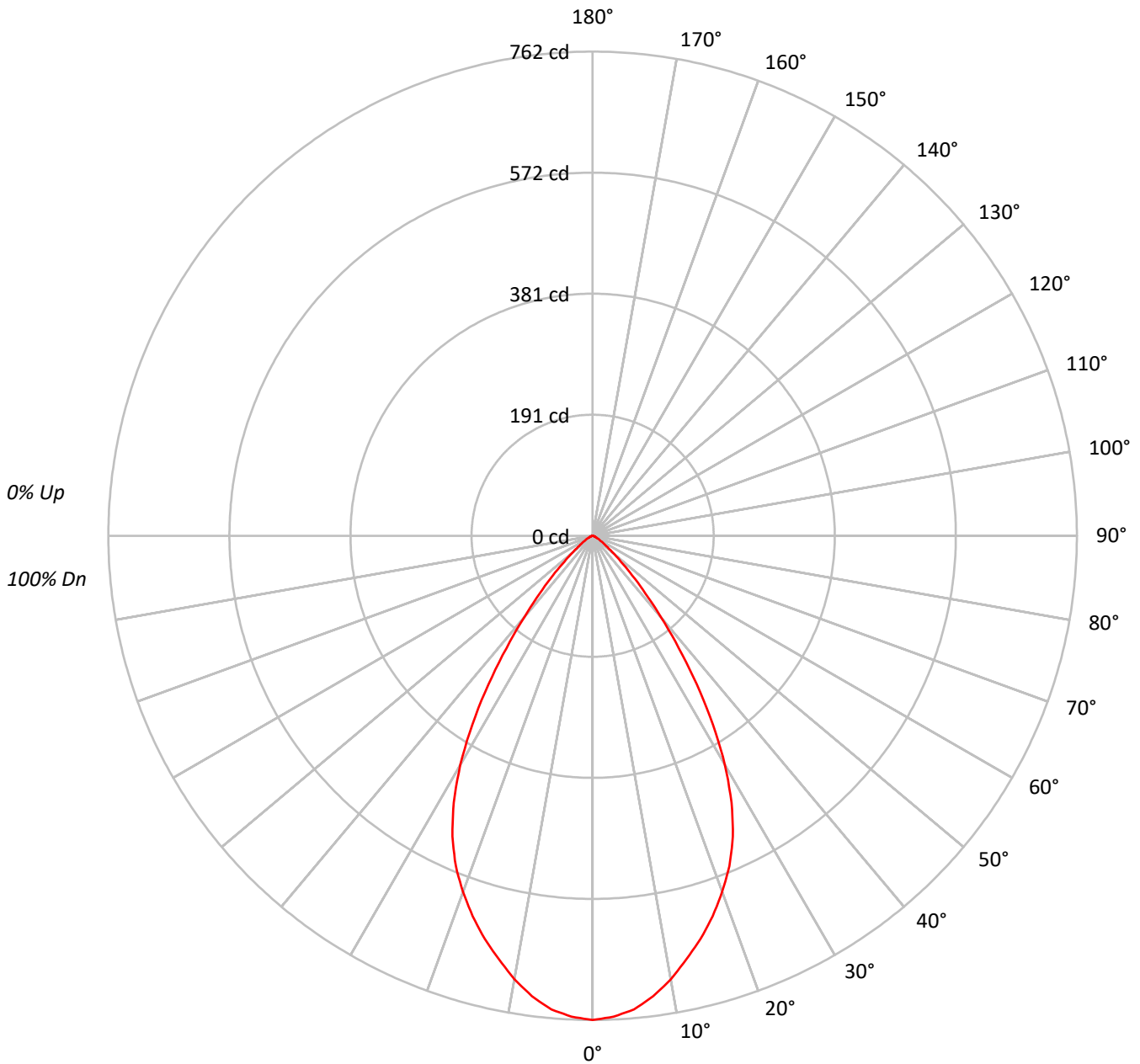
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67	67	67	67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62	62	62	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58	58	58	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54	54	54	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83268
5°	82061
10°	78639
15°	74271
20°	69322
25°	62930
30°	52534
35°	38067
40°	23819
45°	13628
50°	7105
55°	3981
60°	2535
65°	1499
70°	1118
75°	507
80°	755
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	9.1
10°-20°	184.0	23.9
20°-30°	236.4	30.8
30°-40°	177.9	23.1
40°-50°	71.5	9.3
50°-60°	20.3	2.6
60°-70°	6.4	0.8
70°-80°	1.9	0.2
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°	490.5	63.8
0°-40°	668.4	87.0
0°-60°	760.2	98.9
0°-90°	768.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	762	
5°	748	70
15°	657	184
25°	522	236
35°	285	178
45°	88	71
55°	21	20
65°	6	6
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	762.1
2.5°	757.5
5°	748.2
7.5°	730.8
10°	708.8
12.5°	682.1
15°	656.6
17.5°	627.6
20°	596.2
22.5°	562.6
25°	522.0
27.5°	473.3
30°	416.4
32.5°	352.6
35°	285.4
37.5°	222.7
40°	167.0
42.5°	123.0
45°	88.2
47.5°	60.3
50°	41.8
52.5°	29.0
55°	20.9
57.5°	15.1
60°	11.6
62.5°	8.1
65°	5.8
67.5°	4.6
70°	3.5
72.5°	2.3
75°	1.2
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)