

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: P210757

Luminaire Tested: **LE_4B10D010 EC4B10209027 4LBN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35210)
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 4LBN1MW
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 730.2 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

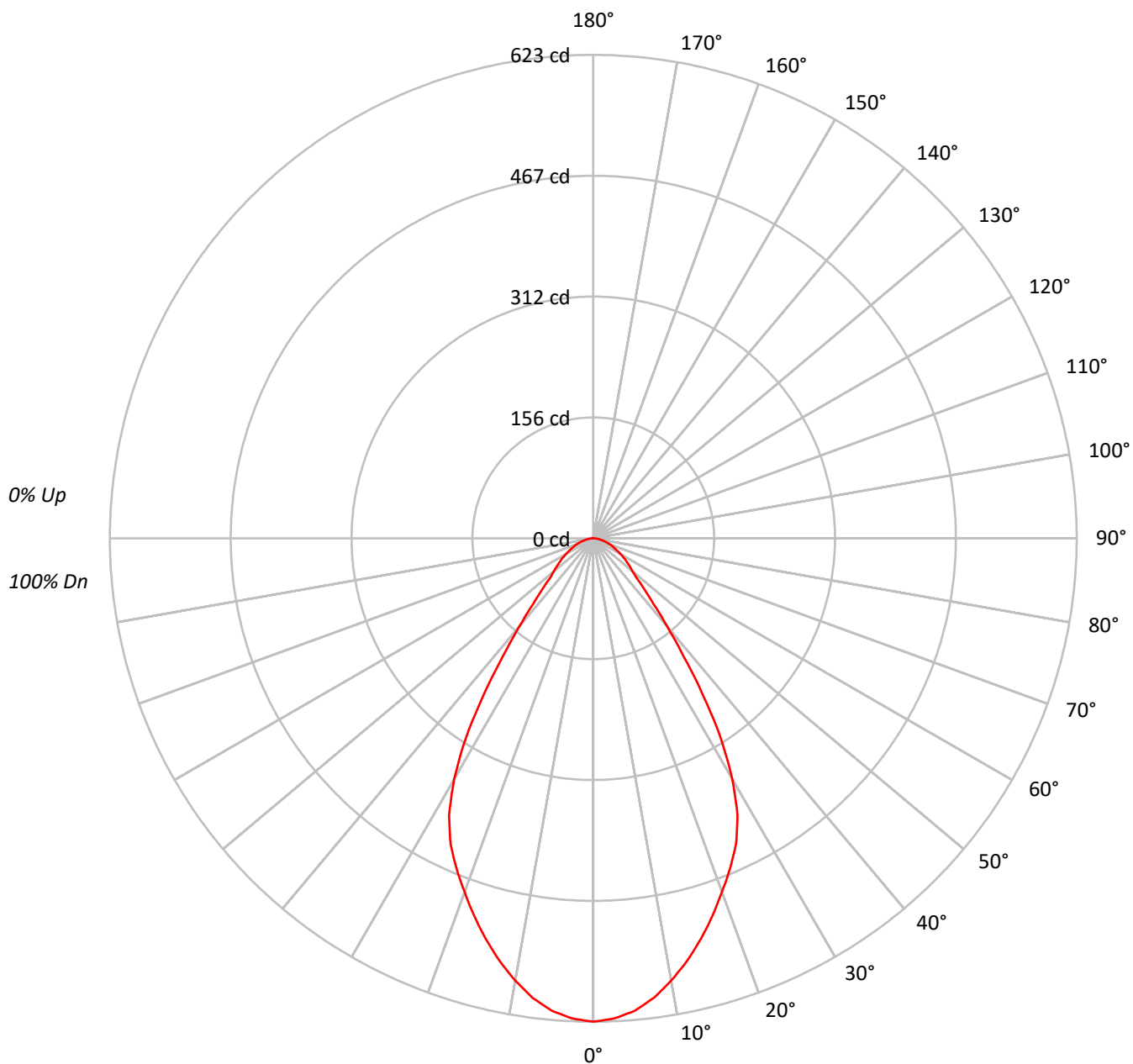
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73		
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56		
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48		
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	68059
5°	67046
10°	64216
15°	60494
20°	56381
25°	52442
30°	45217
35°	32799
40°	21009
45°	14339
50°	11236
55°	9944
60°	8872
65°	7808
70°	7028
75°	6374
80°	5097
85°	4388



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	7.8
10°-20°	149.9	20.5
20°-30°	197.3	27.0
30°-40°	153.6	21.0
40°-50°	74.6	10.2
50°-60°	47.1	6.5
60°-70°	30.4	4.2
70°-80°	15.9	2.2
80°-90°	4.0	0.5
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°	404.6	55.4
0°-40°	558.2	76.4
0°-60°	679.9	93.1
0°-90°	730.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	623	
5°	611	57
15°	535	150
25°	435	197
35°	246	154
45°	93	75
55°	52	47
65°	30	30
75°	15	16
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	622.9
2.5°	619.4
5°	611.3
7.5°	597.4
10°	578.8
12.5°	558.0
15°	534.8
17.5°	510.4
20°	484.9
22.5°	460.5
25°	435.0
27.5°	402.5
30°	358.4
32.5°	306.2
35°	245.9
37.5°	190.2
40°	147.3
42.5°	114.8
45°	92.8
47.5°	75.4
50°	66.1
52.5°	59.2
55°	52.2
57.5°	46.4
60°	40.6
62.5°	34.8
65°	30.2
67.5°	26.7
70°	22.0
72.5°	18.6
75°	15.1
77.5°	11.6
80°	8.1
82.5°	5.8
85°	3.5
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)