

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: P252035

Luminaire Tested: **LD4B40D010 EU4B30509727 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B40D010 EU4B30509727 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3494.9 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.99
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

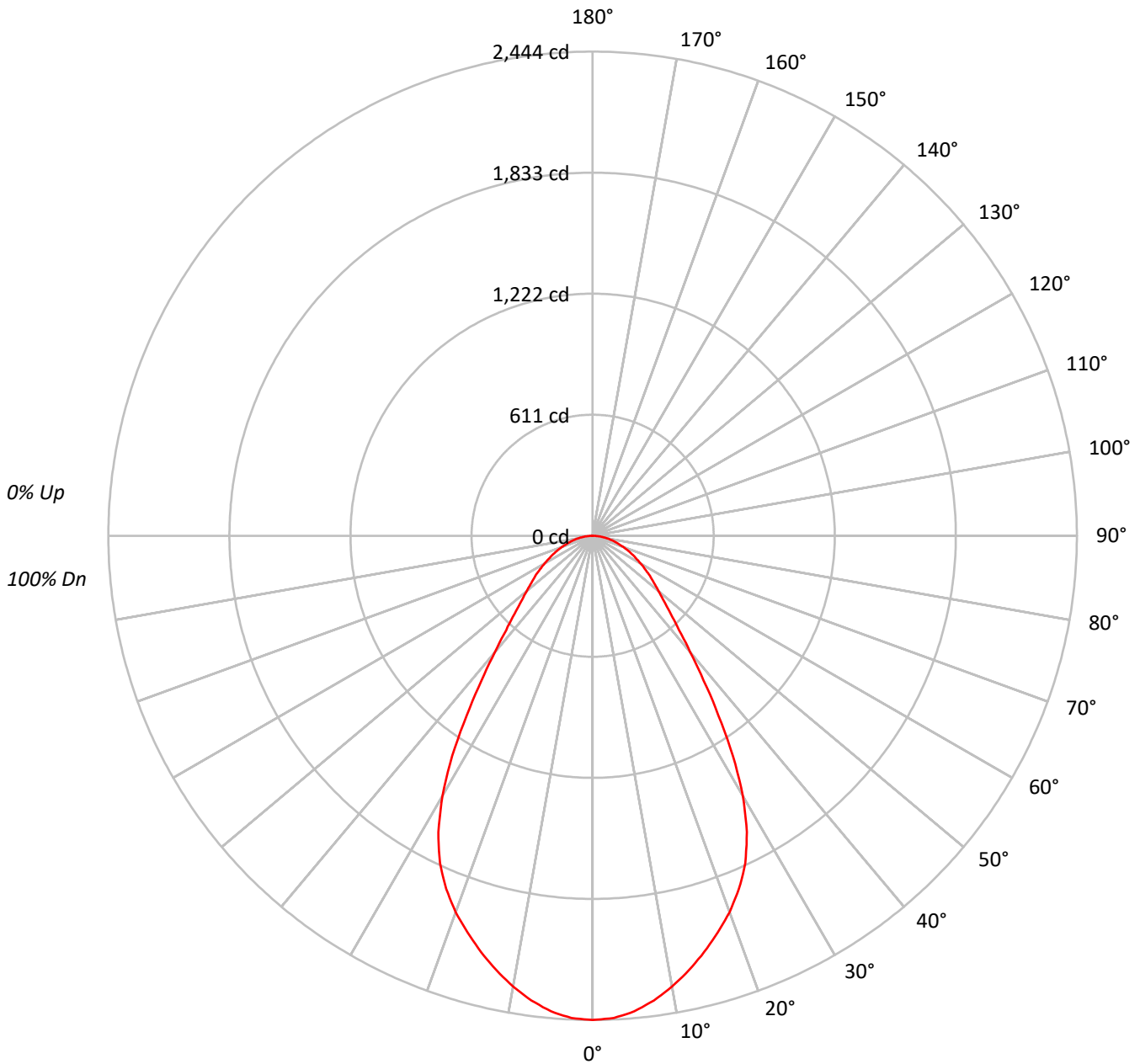
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	238207
5°	235761
10°	228690
15°	219509
20°	209635
25°	196054
30°	170648
35°	131693
40°	97427
45°	76673
50°	65863
55°	59877
60°	54577
65°	50526
70°	46675
75°	43755
80°	40634
85°	38354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.8	6.5
10°-20°	611.4	17.5
20°-30°	827.3	23.7
30°-40°	695.2	19.9
40°-50°	439.9	12.6
50°-60°	315.9	9.0
60°-70°	217.4	6.2
70°-80°	123.1	3.5
80°-90°	37.8	1.1
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°	1665.6	47.7
0°-40°	2360.8	67.5
0°-60°	3116.6	89.2
0°-90°	3494.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3494.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2444	
5°	2410	227
15°	2176	611
25°	1823	827
35°	1107	695
45°	556	440
55°	352	316
65°	219	217
75°	116	123
85°	34	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2444.2
2.5°	2436.6
5°	2409.9
7.5°	2366.1
10°	2310.9
12.5°	2246.1
15°	2175.6
17.5°	2099.4
20°	2021.3
22.5°	1929.8
25°	1823.2
27.5°	1686.0
30°	1516.4
32.5°	1318.3
35°	1106.9
37.5°	920.2
40°	765.8
42.5°	645.8
45°	556.3
47.5°	487.7
50°	434.4
52.5°	390.5
55°	352.4
57.5°	314.3
60°	280.0
62.5°	247.7
65°	219.1
67.5°	190.5
70°	163.8
72.5°	139.1
75°	116.2
77.5°	93.3
80°	72.4
82.5°	53.3
85°	34.3
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)