

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: P252043

Luminaire Tested: **LD4B50D010TE EU4B30509027 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252043
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: LD4B50D010TE EU4B30509027 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5113.0 lumens
Efficiency: N/A
Efficacy: 87.0 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

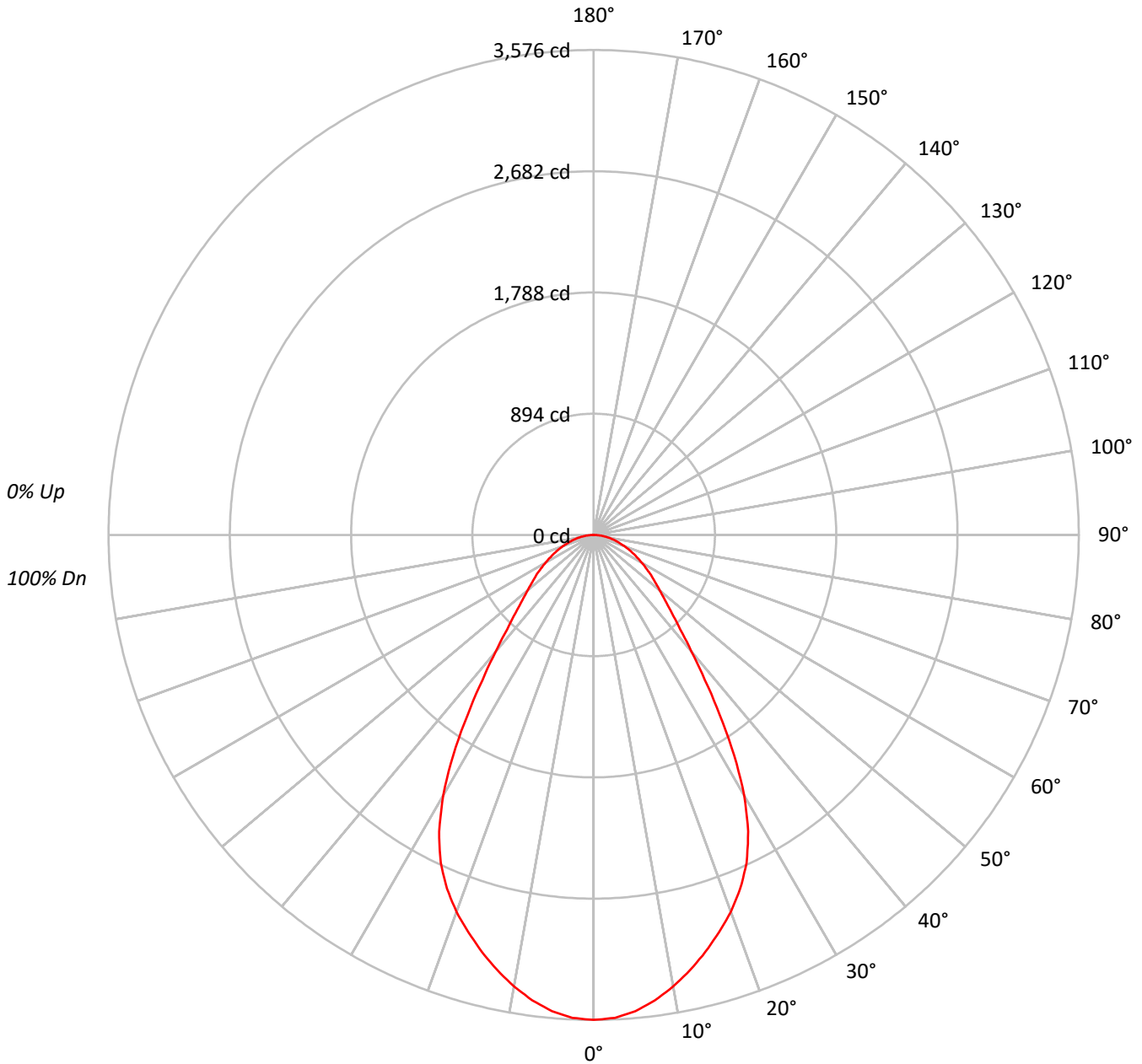
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	348491
5°	344911
10°	334559
15°	321132
20°	306679
25°	286812
30°	249659
35°	192655
40°	142540
45°	112163
50°	96338
55°	87607
60°	79857
65°	73909
70°	68302
75°	64013
80°	59435
85°	56134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.8	6.5
10°-20°	894.5	17.5
20°-30°	1210.3	23.7
30°-40°	1017.0	19.9
40°-50°	643.6	12.6
50°-60°	462.2	9.0
60°-70°	318.1	6.2
70°-80°	180.1	3.5
80°-90°	55.4	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°	2436.7	47.7
0°-40°	3453.7	67.5
0°-60°	4559.4	89.2
0°-90°	5113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5113.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3576	
5°	3526	332
15°	3183	894
25°	2667	1210
35°	1619	1017
45°	814	644
55°	516	462
65°	320	318
75°	170	180
85°	50	55
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3575.8
2.5°	3564.6
5°	3525.6
7.5°	3461.5
10°	3380.7
12.5°	3285.9
15°	3182.8
17.5°	3071.3
20°	2957.0
22.5°	2823.3
25°	2667.2
27.5°	2466.5
30°	2218.5
32.5°	1928.6
35°	1619.3
37.5°	1346.1
40°	1120.4
42.5°	944.8
45°	813.8
47.5°	713.5
50°	635.4
52.5°	571.3
55°	515.6
57.5°	459.9
60°	409.7
62.5°	362.3
65°	320.5
67.5°	278.7
70°	239.7
72.5°	203.5
75°	170.0
77.5°	136.6
80°	105.9
82.5°	78.0
85°	50.2
87.5°	22.3
90°	0.0



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— 0°-180°







(END OF REPORT)