

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: P252041

Luminaire Tested: **LD4B50D010TE EU4B30508050 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252041
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 EU4B30508050 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6445.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

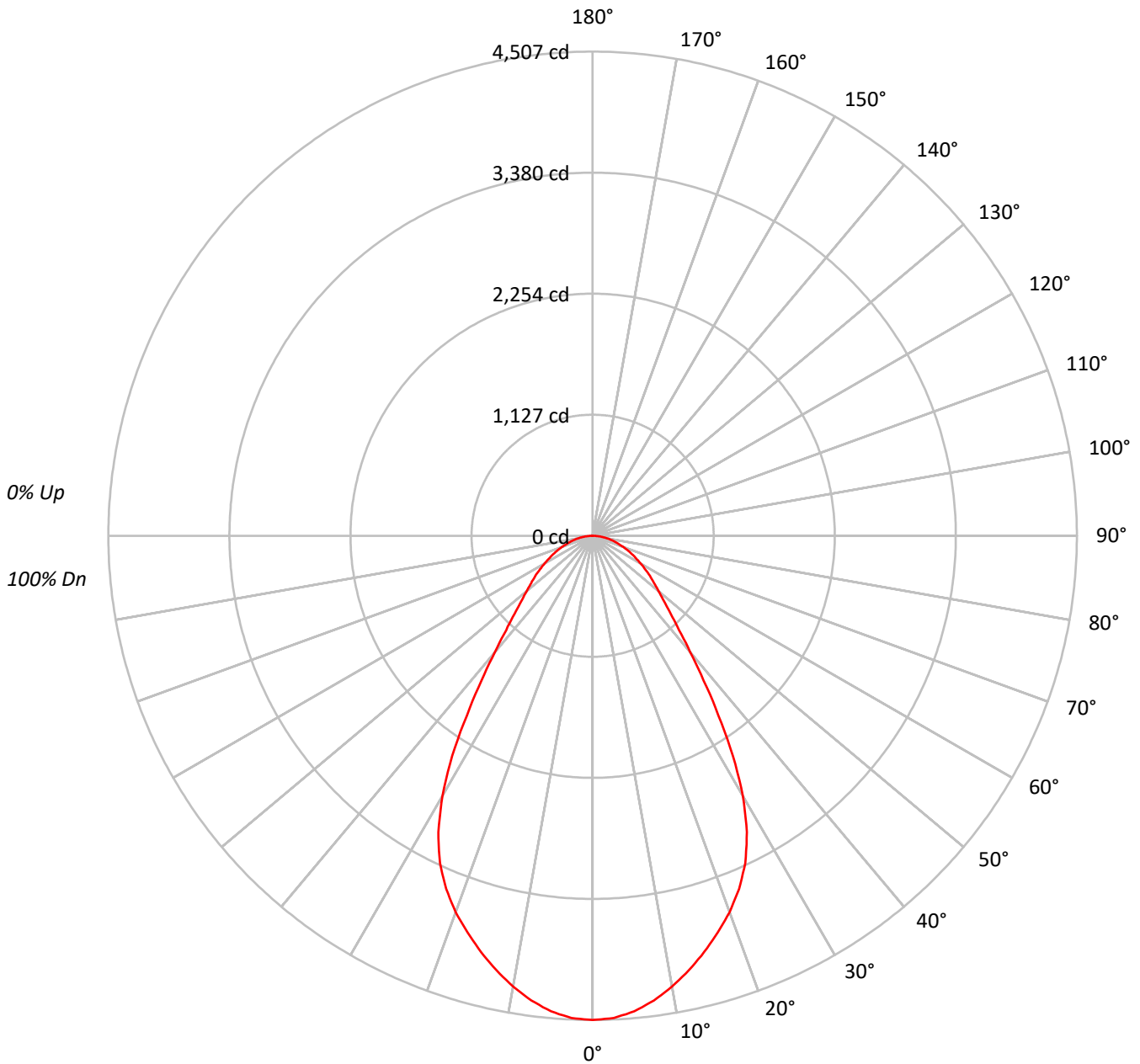
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252041

CATALOG NUMBER: LD4B50D010TE EU4B30508050 4LBBA1MW

Luminous Intensity Polar Plot





TEST NUMBER: P252041

CATALOG NUMBER: LD4B50D010TE EU4B30508050 4LBBA1MW

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°	439273
5°	434768
10°	421715
15°	404795
20°	386579
25°	361526
30°	314693
35°	242839
40°	179676
45°	141382
50°	121446
55°	110426
60°	100655
65°	93165
70°	86083
75°	80694
80°	74925
85°	70671



TEST NUMBER: P252041

CATALOG NUMBER: LD4B50D010TE EU4B30508050 4LBBA1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.3	6.5
10°-20°	1127.5	17.5
20°-30°	1525.7	23.7
30°-40°	1282.0	19.9
40°-50°	811.2	12.6
50°-60°	582.6	9.0
60°-70°	401.0	6.2
70°-80°	227.0	3.5
80°-90°	69.8	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°	3071.5	47.7
0°-40°	4353.4	67.5
0°-60°	5747.3	89.2
0°-90°	6445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6445.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4507	
5°	4444	418
15°	4012	1128
25°	3362	1526
35°	2041	1282
45°	1026	811
55°	650	583
65°	404	401
75°	214	227
85°	63	70
90°	0	



TEST NUMBER: P252041

CATALOG NUMBER: LD4B50D010TE EU4B30508050 4LBBA1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	4507.3
2.5°	4493.2
5°	4444.1
7.5°	4363.3
10°	4261.4
12.5°	4141.9
15°	4012.0
17.5°	3871.4
20°	3727.4
22.5°	3558.8
25°	3362.0
27.5°	3109.1
30°	2796.4
32.5°	2431.1
35°	2041.1
37.5°	1696.8
40°	1412.3
42.5°	1190.9
45°	1025.8
47.5°	899.4
50°	801.0
52.5°	720.2
55°	649.9
57.5°	579.7
60°	516.4
62.5°	456.7
65°	404.0
67.5°	351.3
70°	302.1
72.5°	256.5
75°	214.3
77.5°	172.1
80°	133.5
82.5°	98.4
85°	63.2
87.5°	28.1
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)