

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: P252025

Luminaire Tested: **LD4B40D010 EU4B30508030 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252025
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 EU4B30508030 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4894.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

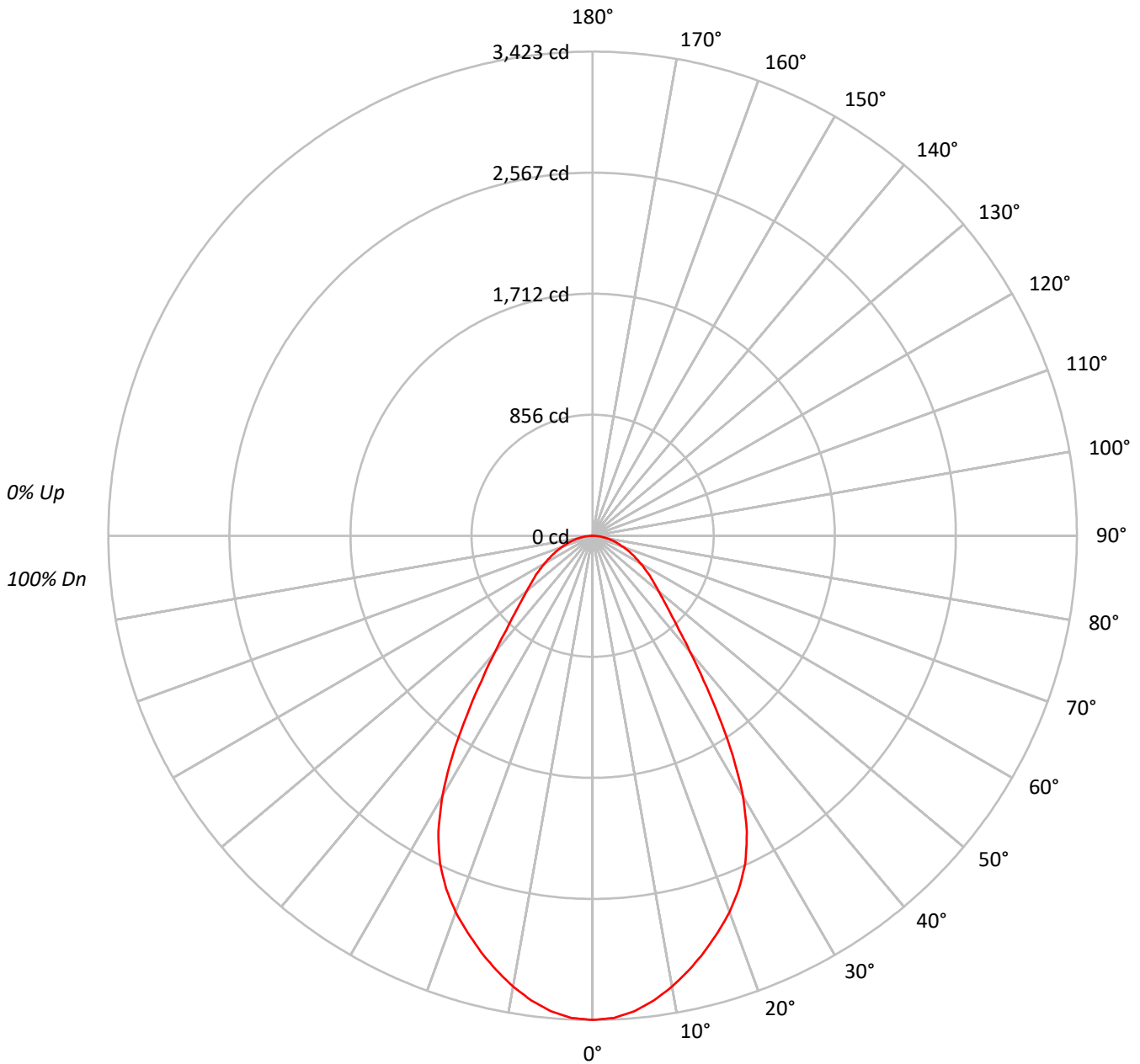
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252025

CATALOG NUMBER: LD4B40D010 EU4B30508030 4LBBA1MW

Luminous Intensity Polar Plot





TEST NUMBER: P252025

CATALOG NUMBER: LD4B40D010 EU4B30508030 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	55	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°	333560
5°	330138
10°	320230
15°	307380
20°	293548
25°	274532
30°	238968
35°	184398
40°	136433
45°	107367
50°	92214
55°	83852
60°	76427
65°	70750
70°	65367
75°	61265
80°	56910
85°	53674



TEST NUMBER: P252025

CATALOG NUMBER: LD4B40D010 EU4B30508030 4LBBA1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.6	6.5
10°-20°	856.2	17.5
20°-30°	1158.5	23.7
30°-40°	973.5	19.9
40°-50°	616.0	12.6
50°-60°	442.4	9.0
60°-70°	304.5	6.2
70°-80°	172.3	3.5
80°-90°	53.0	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°	2332.3	47.7
0°-40°	3305.8	67.5
0°-60°	4364.2	89.2
0°-90°	4894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4894.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3423	
5°	3375	318
15°	3046	856
25°	2553	1159
35°	1550	973
45°	779	616
55°	494	442
65°	307	304
75°	163	172
85°	48	53
90°	0	



TEST NUMBER: P252025

CATALOG NUMBER: LD4B40D010 EU4B30508030 4LBBA1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3422.6
2.5°	3411.9
5°	3374.6
7.5°	3313.2
10°	3235.9
12.5°	3145.2
15°	3046.5
17.5°	2939.8
20°	2830.4
22.5°	2702.3
25°	2553.0
27.5°	2360.9
30°	2123.5
32.5°	1846.0
35°	1549.9
37.5°	1288.5
40°	1072.4
42.5°	904.3
45°	779.0
47.5°	682.9
50°	608.2
52.5°	546.9
55°	493.5
57.5°	440.2
60°	392.1
62.5°	346.8
65°	306.8
67.5°	266.8
70°	229.4
72.5°	194.7
75°	162.7
77.5°	130.7
80°	101.4
82.5°	74.7
85°	48.0
87.5°	21.3
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)