

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: P252001

Luminaire Tested: **LD4B20D010 EU4B10208040 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252001
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: LD4B20D010 EU4B10208040 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2512.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

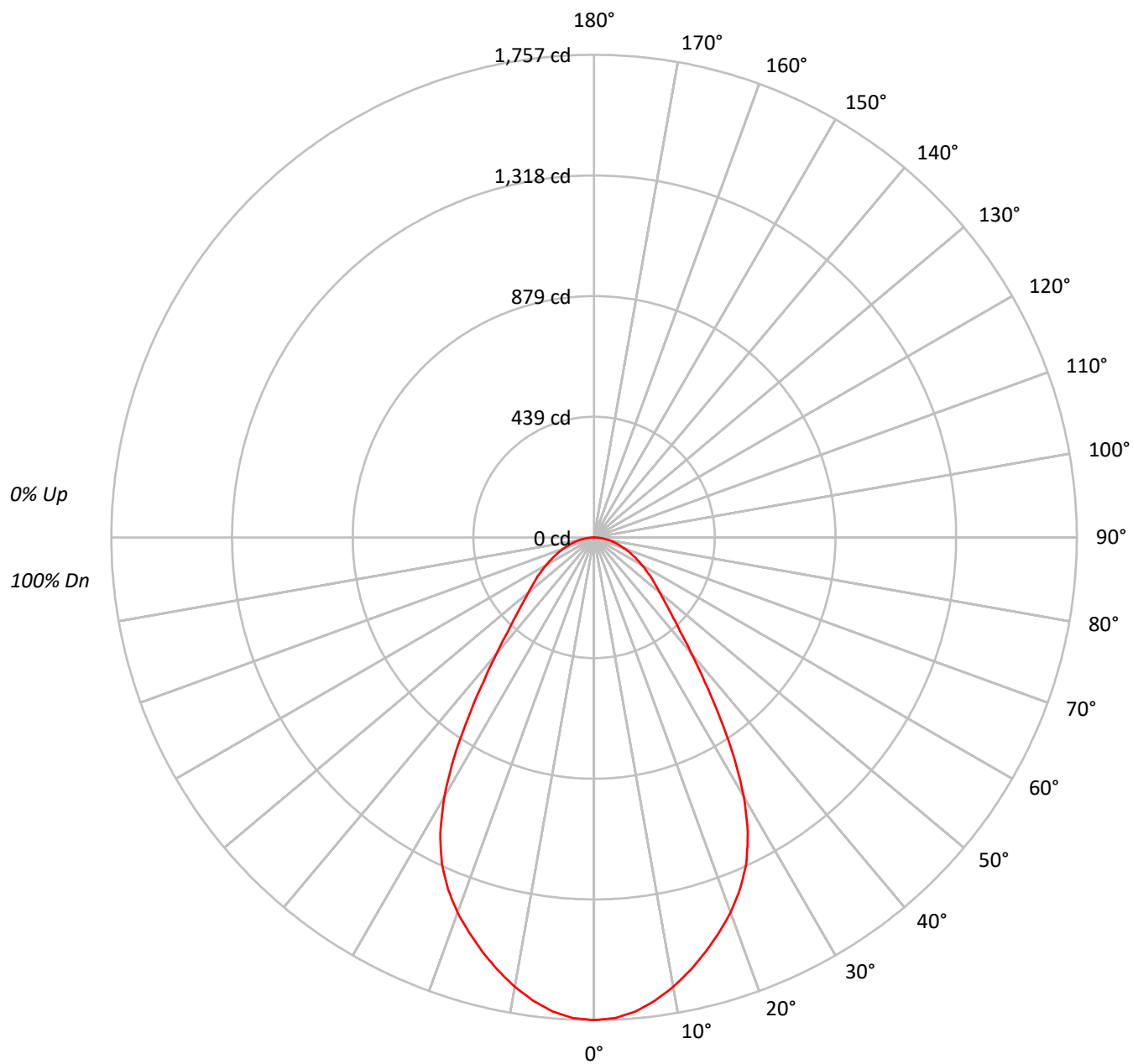
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252001

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBBA1MW

Luminous Intensity Polar Plot





TEST NUMBER: P252001

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBBA1MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	80	72	67	87	78	72	66	76	70	65		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		61
7	74	62	54	49	72	61	54	49	60	53	49		58	53	48		57
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		53
9	65	54	46	42	64	53	46	42	52	46	41		51	45	41		50
10	62	50	43	39	61	50	43	38	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	171214
5°	169452
10°	164365
15°	157771
20°	150674
25°	140911
30°	122652
35°	94644
40°	70023
45°	55103
50°	47335
55°	43039
60°	39237
65°	36320
70°	33567
75°	31442
80°	29184
85°	27508



TEST NUMBER: P252001

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBBA1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	6.5
10°-20°	439.5	17.5
20°-30°	594.6	23.7
30°-40°	499.6	19.9
40°-50°	316.2	12.6
50°-60°	227.1	9.0
60°-70°	156.3	6.2
70°-80°	88.5	3.5
80°-90°	27.2	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°	1197.1	47.7
0°-40°	1696.8	67.5
0°-60°	2240.0	89.2
0°-90°	2512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1757	
5°	1732	163
15°	1564	439
25°	1310	595
35°	796	500
45°	400	316
55°	253	227
65°	158	156
75°	84	88
85°	25	27
90°	0	



TEST NUMBER: P252001

CATALOG NUMBER: LD4B20D010 EU4B10208040 4LBBA1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1756.8
2.5°	1751.3
5°	1732.1
7.5°	1700.6
10°	1660.9
12.5°	1614.4
15°	1563.7
17.5°	1508.9
20°	1452.8
22.5°	1387.1
25°	1310.4
27.5°	1211.8
30°	1089.9
32.5°	947.5
35°	795.5
37.5°	661.4
40°	550.4
42.5°	464.2
45°	399.8
47.5°	350.5
50°	312.2
52.5°	280.7
55°	253.3
57.5°	225.9
60°	201.3
62.5°	178.0
65°	157.5
67.5°	136.9
70°	117.8
72.5°	100.0
75°	83.5
77.5°	67.1
80°	52.0
82.5°	38.3
85°	24.6
87.5°	11.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)