

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: P252000

Luminaire Tested: **LD4B20D010 EU4B10208035 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252000
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 EU4B10208035 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2485.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

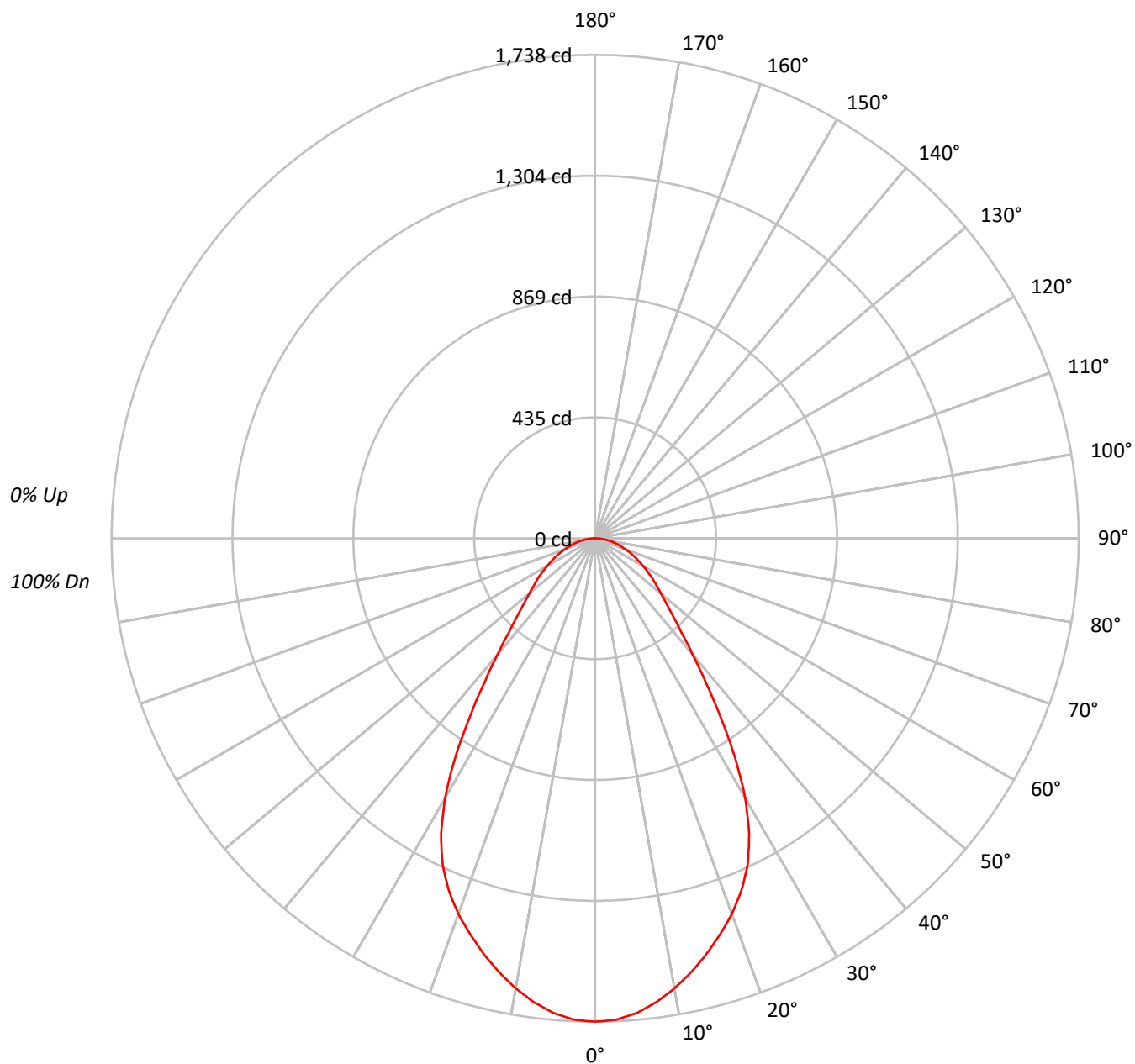
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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		54	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°	169372
5°	167632
10°	162604
15°	156076
20°	149056
25°	139395
30°	121335
35°	93633
40°	69273
45°	54510
50°	46820
55°	42580
60°	38808
65°	35928
70°	33196
75°	31103
80°	28904
85°	27284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	6.5
10°-20°	434.7	17.5
20°-30°	588.3	23.7
30°-40°	494.3	19.9
40°-50°	312.8	12.6
50°-60°	224.6	9.0
60°-70°	154.6	6.2
70°-80°	87.5	3.5
80°-90°	26.9	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°	1184.3	47.7
0°-40°	1678.5	67.5
0°-60°	2216.0	89.2
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1738	
5°	1714	161
15°	1547	435
25°	1296	588
35°	787	494
45°	396	313
55°	251	225
65°	156	155
75°	83	88
85°	24	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1737.9
2.5°	1732.5
5°	1713.5
7.5°	1682.3
10°	1643.1
12.5°	1597.0
15°	1546.9
17.5°	1492.7
20°	1437.2
22.5°	1372.2
25°	1296.3
27.5°	1198.8
30°	1078.2
32.5°	937.3
35°	787.0
37.5°	654.2
40°	544.5
42.5°	459.2
45°	395.5
47.5°	346.8
50°	308.8
52.5°	277.7
55°	250.6
57.5°	223.5
60°	199.1
62.5°	176.1
65°	155.8
67.5°	135.5
70°	116.5
72.5°	98.9
75°	82.6
77.5°	66.4
80°	51.5
82.5°	37.9
85°	24.4
87.5°	10.8
90°	0.0



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— 0°-180°







(END OF REPORT)