

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: P252006

Luminaire Tested: **LD4B20D010 EU4B10209035 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252006
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 EU4B10209035 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2101.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

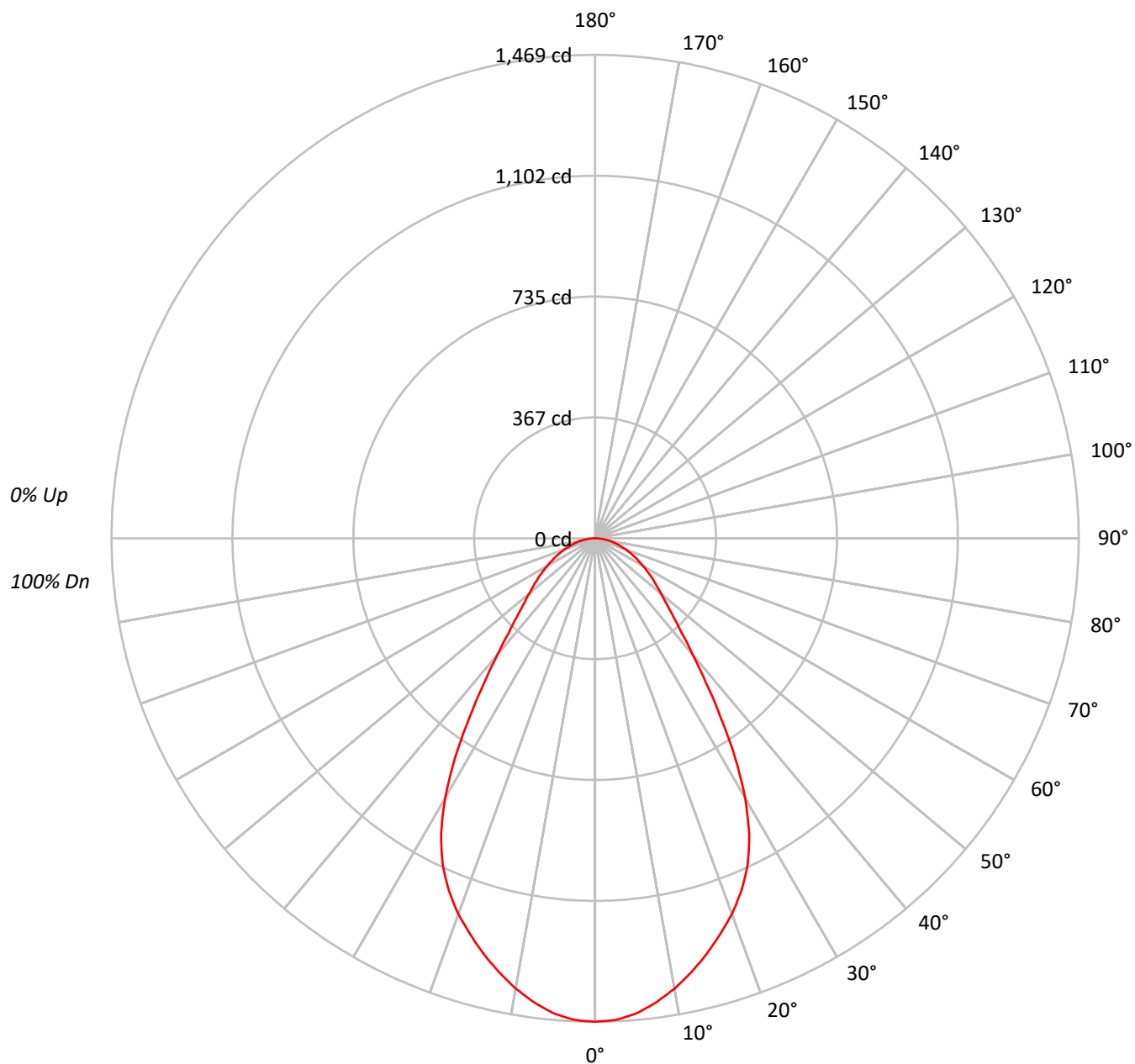
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	143195
5°	141727
10°	137477
15°	131962
20°	126021
25°	117856
30°	102587
35°	79166
40°	58573
45°	46089
50°	39587
55°	36005
60°	32804
65°	30371
70°	28067
75°	26321
80°	24414
85°	23035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	6.5
10°-20°	367.6	17.5
20°-30°	497.3	23.7
30°-40°	417.9	19.9
40°-50°	264.4	12.6
50°-60°	189.9	9.0
60°-70°	130.7	6.2
70°-80°	74.0	3.5
80°-90°	22.8	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°	1001.3	47.7
0°-40°	1419.2	67.5
0°-60°	1873.5	89.2
0°-90°	2101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1469	
5°	1449	136
15°	1308	368
25°	1096	497
35°	665	418
45°	334	264
55°	212	190
65°	132	131
75°	70	74
85°	21	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1469.3
2.5°	1464.7
5°	1448.7
7.5°	1422.4
10°	1389.2
12.5°	1350.2
15°	1307.9
17.5°	1262.0
20°	1215.1
22.5°	1160.1
25°	1096.0
27.5°	1013.5
30°	911.6
32.5°	792.5
35°	665.4
37.5°	553.1
40°	460.4
42.5°	388.2
45°	334.4
47.5°	293.2
50°	261.1
52.5°	234.8
55°	211.9
57.5°	189.0
60°	168.3
62.5°	148.9
65°	131.7
67.5°	114.5
70°	98.5
72.5°	83.6
75°	69.9
77.5°	56.1
80°	43.5
82.5°	32.1
85°	20.6
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)