

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: P252008

Luminaire Tested: **LD4B20D010 EU4B10209050 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252008
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 EU4B10209050 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2113.0 lumens
Efficiency: N/A
Efficacy: 101.6 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

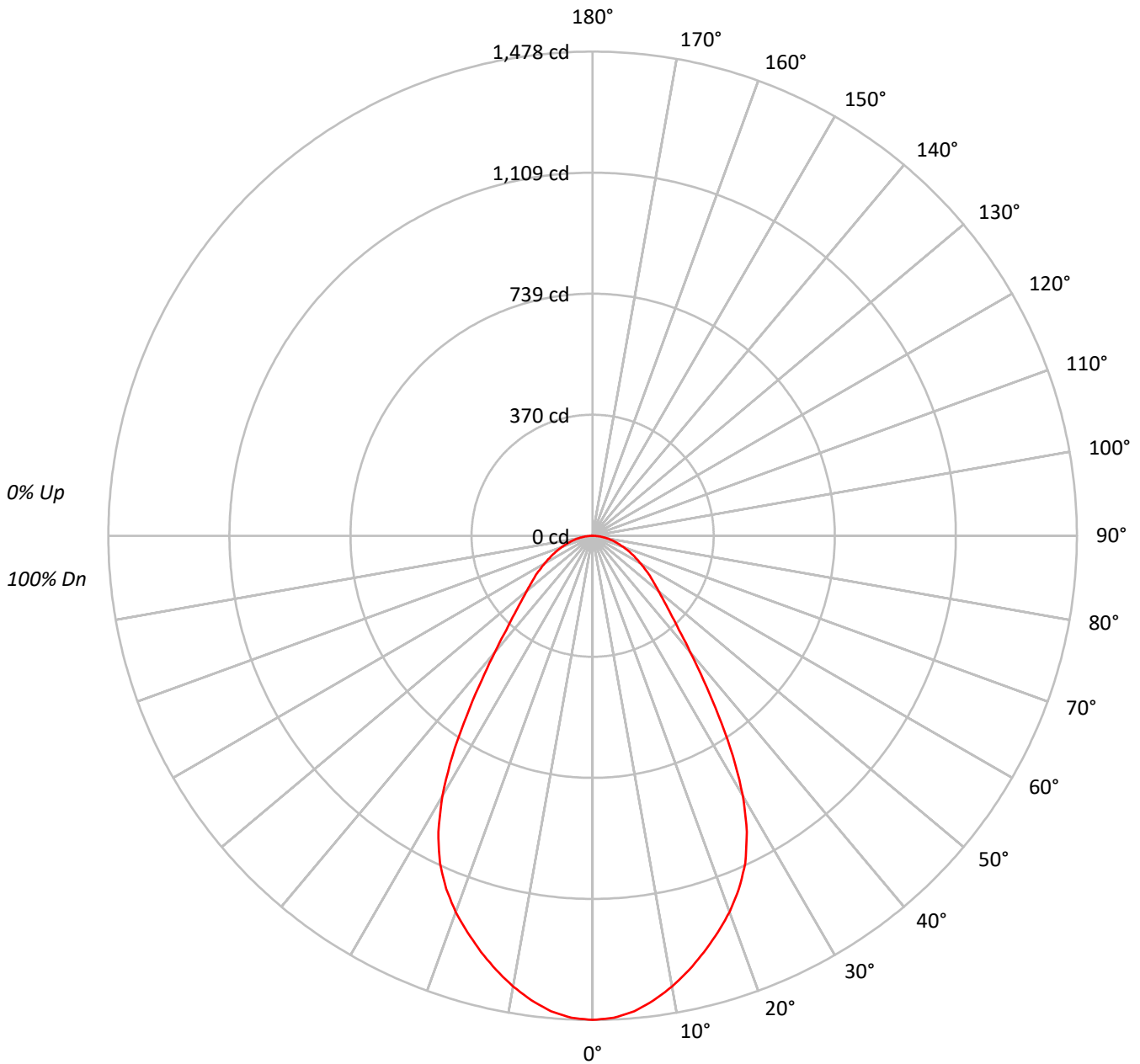
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144014
5°	142539
10°	138259
15°	132709
20°	126737
25°	118523
30°	103172
35°	79618
40°	58904
45°	46351
50°	39815
55°	36208
60°	32999
65°	30555
70°	28238
75°	26471
80°	24582
85°	23147



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	6.5
10°-20°	369.7	17.5
20°-30°	500.2	23.7
30°-40°	420.3	19.9
40°-50°	266.0	12.6
50°-60°	191.0	9.0
60°-70°	131.5	6.2
70°-80°	74.4	3.5
80°-90°	22.9	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°	1007.0	47.7
0°-40°	1427.3	67.5
0°-60°	1884.2	89.2
0°-90°	2113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1478	
5°	1457	137
15°	1315	370
25°	1102	500
35°	669	420
45°	336	266
55°	213	191
65°	132	131
75°	70	74
85°	21	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1477.7
2.5°	1473.1
5°	1457.0
7.5°	1430.5
10°	1397.1
12.5°	1357.9
15°	1315.3
17.5°	1269.3
20°	1222.0
22.5°	1166.7
25°	1102.2
27.5°	1019.3
30°	916.8
32.5°	797.0
35°	669.2
37.5°	556.3
40°	463.0
42.5°	390.5
45°	336.3
47.5°	294.9
50°	262.6
52.5°	236.1
55°	213.1
57.5°	190.0
60°	169.3
62.5°	149.7
65°	132.5
67.5°	115.2
70°	99.1
72.5°	84.1
75°	70.3
77.5°	56.4
80°	43.8
82.5°	32.2
85°	20.7
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)