

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: P252019

Luminaire Tested: **LD4B30D010 EU4B30509035 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252019
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: LD4B30D010 EU4B30509035 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: 3026.9 lumens
Efficiency: N/A
Efficacy: 108.1 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

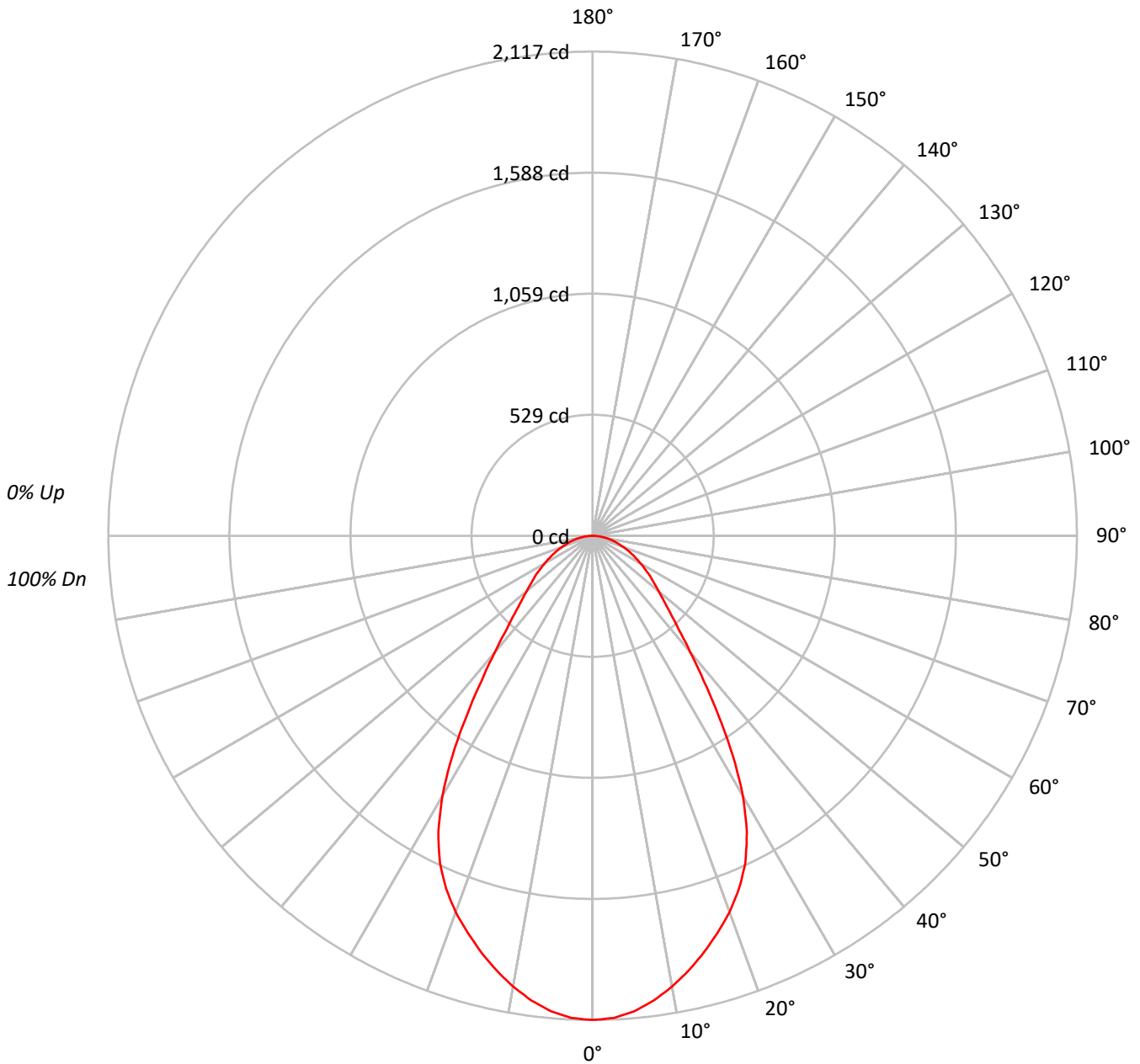
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	55	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°	206309
5°	204192
10°	198062
15°	190118
20°	181559
25°	169795
30°	147803
35°	114049
40°	84387
45°	66405
50°	57039
55°	51857
60°	47267
65°	43746
70°	40434
75°	37881
80°	35190
85°	33211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	6.5
10°-20°	529.6	17.5
20°-30°	716.5	23.7
30°-40°	602.1	19.9
40°-50°	381.0	12.6
50°-60°	273.6	9.0
60°-70°	188.3	6.2
70°-80°	106.6	3.5
80°-90°	32.8	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°	1442.5	47.7
0°-40°	2044.6	67.5
0°-60°	2699.2	89.2
0°-90°	3026.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3026.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2117	
5°	2087	196
15°	1884	530
25°	1579	717
35°	959	602
45°	482	381
55°	305	274
65°	190	188
75°	101	107
85°	30	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2116.9
2.5°	2110.3
5°	2087.2
7.5°	2049.3
10°	2001.4
12.5°	1945.3
15°	1884.3
17.5°	1818.3
20°	1750.6
22.5°	1671.4
25°	1579.0
27.5°	1460.2
30°	1313.4
32.5°	1141.8
35°	958.6
37.5°	796.9
40°	663.3
42.5°	559.3
45°	481.8
47.5°	422.4
50°	376.2
52.5°	338.2
55°	305.2
57.5°	272.2
60°	242.5
62.5°	214.5
65°	189.7
67.5°	165.0
70°	141.9
72.5°	120.4
75°	100.6
77.5°	80.8
80°	62.7
82.5°	46.2
85°	29.7
87.5°	13.2
90°	0.0



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— 0°-180°







(END OF REPORT)