

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: P252017

Luminaire Tested: **LD4B30D010 EU4B30509027 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252017
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 EU4B30509027 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

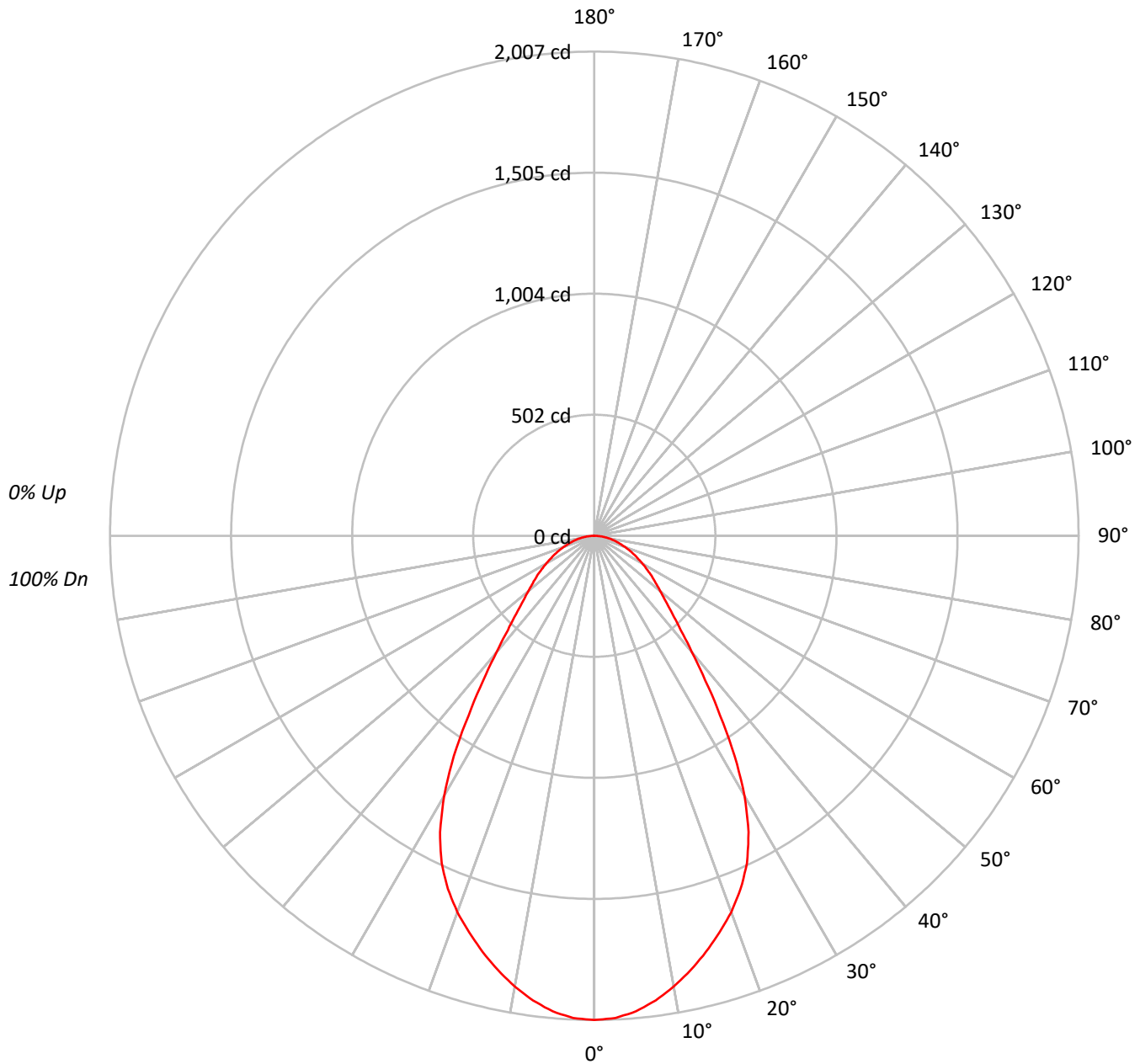
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
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°	195608
5°	193606
10°	187789
15°	180251
20°	172142
25°	160988
30°	140140
35°	108136
40°	80010
45°	62959
50°	54082
55°	49173
60°	44831
65°	41486
70°	38326
75°	35923
80°	33338
85°	31533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	6.5
10°-20°	502.1	17.5
20°-30°	679.4	23.7
30°-40°	570.9	19.9
40°-50°	361.2	12.6
50°-60°	259.4	9.0
60°-70°	178.6	6.2
70°-80°	101.1	3.5
80°-90°	31.1	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°	1367.7	47.7
0°-40°	1938.6	67.5
0°-60°	2559.3	89.2
0°-90°	2870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2007	
5°	1979	186
15°	1786	502
25°	1497	679
35°	909	571
45°	457	361
55°	289	259
65°	180	179
75°	95	101
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2007.1
2.5°	2000.9
5°	1979.0
7.5°	1943.0
10°	1897.6
12.5°	1844.4
15°	1786.5
17.5°	1724.0
20°	1659.8
22.5°	1584.7
25°	1497.1
27.5°	1384.5
30°	1245.3
32.5°	1082.6
35°	908.9
37.5°	755.6
40°	628.9
42.5°	530.3
45°	456.8
47.5°	400.5
50°	356.7
52.5°	320.7
55°	289.4
57.5°	258.1
60°	230.0
62.5°	203.4
65°	179.9
67.5°	156.4
70°	134.5
72.5°	114.2
75°	95.4
77.5°	76.7
80°	59.4
82.5°	43.8
85°	28.2
87.5°	12.5
90°	0.0



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— 0°-180°







(END OF REPORT)