

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: P251985

Luminaire Tested: **LD4B15D010 EU4B10208027 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251985
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: LD4B15D010 EU4B10208027 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1713.1 lumens
Efficiency: N/A
Efficacy: 119.0 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

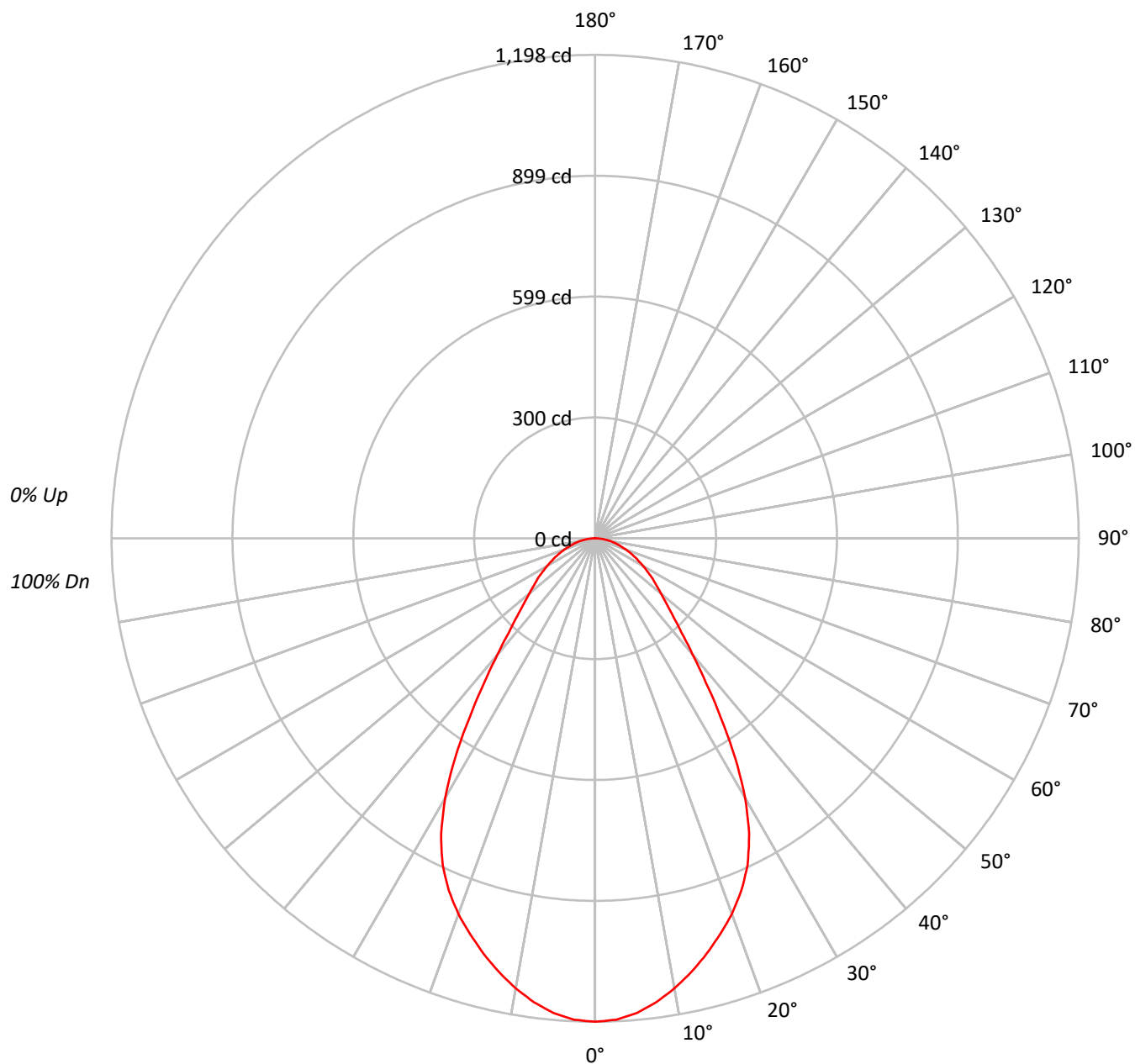
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116755
5°	115557
10°	112084
15°	107585
20°	102748
25°	96092
30°	83647
35°	64544
40°	47759
45°	37585
50°	32279
55°	29344
60°	26762
65°	24767
70°	22881
75°	21463
80°	19924
85°	18786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	6.5
10°-20°	299.7	17.5
20°-30°	405.5	23.7
30°-40°	340.7	19.9
40°-50°	215.6	12.6
50°-60°	154.9	9.0
60°-70°	106.6	6.2
70°-80°	60.4	3.5
80°-90°	18.5	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°	816.4	47.7
0°-40°	1157.1	67.5
0°-60°	1527.6	89.2
0°-90°	1713.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1713.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1198	
5°	1181	111
15°	1066	300
25°	894	406
35°	542	341
45°	273	216
55°	173	155
65°	107	107
75°	57	60
85°	17	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1198.0
2.5°	1194.2
5°	1181.2
7.5°	1159.7
10°	1132.6
12.5°	1100.9
15°	1066.3
17.5°	1029.0
20°	990.7
22.5°	945.9
25°	893.6
27.5°	826.4
30°	743.3
32.5°	646.1
35°	542.5
37.5°	451.0
40°	375.4
42.5°	316.5
45°	272.7
47.5°	239.0
50°	212.9
52.5°	191.4
55°	172.7
57.5°	154.1
60°	137.3
62.5°	121.4
65°	107.4
67.5°	93.4
70°	80.3
72.5°	68.2
75°	57.0
77.5°	45.8
80°	35.5
82.5°	26.1
85°	16.8
87.5°	7.5
90°	0.0



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— 0°-180°







(END OF REPORT)