

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: P252032

Luminaire Tested: **LD4B40D010 EU4B30509035 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252032
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: LD4B40D010 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: 4240.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

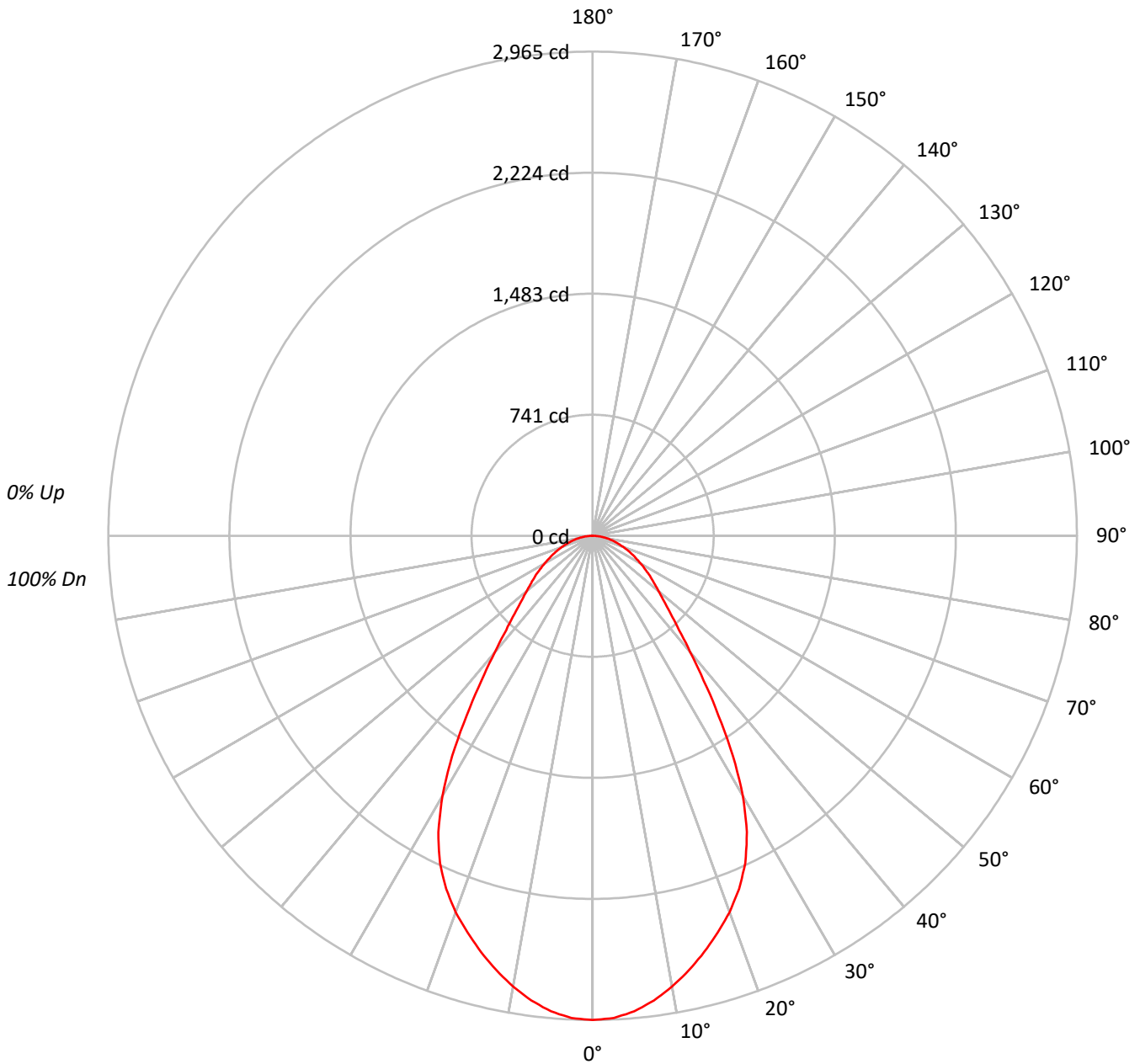
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	288983
5°	286017
10°	277439
15°	266305
20°	254324
25°	237842
30°	207030
35°	159759
40°	118202
45°	93019
50°	79887
55°	72655
60°	66213
65°	61295
70°	56648
75°	53093
80°	49277
85°	46517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	6.5
10°-20°	741.8	17.5
20°-30°	1003.7	23.7
30°-40°	843.4	19.9
40°-50°	533.7	12.6
50°-60°	383.3	9.0
60°-70°	263.8	6.2
70°-80°	149.3	3.5
80°-90°	45.9	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°	2020.6	47.7
0°-40°	2864.0	67.5
0°-60°	3781.0	89.2
0°-90°	4240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2965	
5°	2924	275
15°	2639	742
25°	2212	1004
35°	1343	843
45°	675	534
55°	428	383
65°	266	264
75°	141	149
85°	42	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2965.2
2.5°	2956.0
5°	2923.6
7.5°	2870.5
10°	2803.5
12.5°	2724.9
15°	2639.4
17.5°	2546.9
20°	2452.2
22.5°	2341.2
25°	2211.8
27.5°	2045.4
30°	1839.7
32.5°	1599.3
35°	1342.8
37.5°	1116.3
40°	929.1
42.5°	783.5
45°	674.9
47.5°	591.7
50°	526.9
52.5°	473.8
55°	427.6
57.5°	381.3
60°	339.7
62.5°	300.5
65°	265.8
67.5°	231.1
70°	198.8
72.5°	168.7
75°	141.0
77.5°	113.2
80°	87.8
82.5°	64.7
85°	41.6
87.5°	18.5
90°	0.0



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— 0°-180°







(END OF REPORT)