

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: P251995

Luminaire Tested: **LD4B15D010 EU4B10209050 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251995
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 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: 1560.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

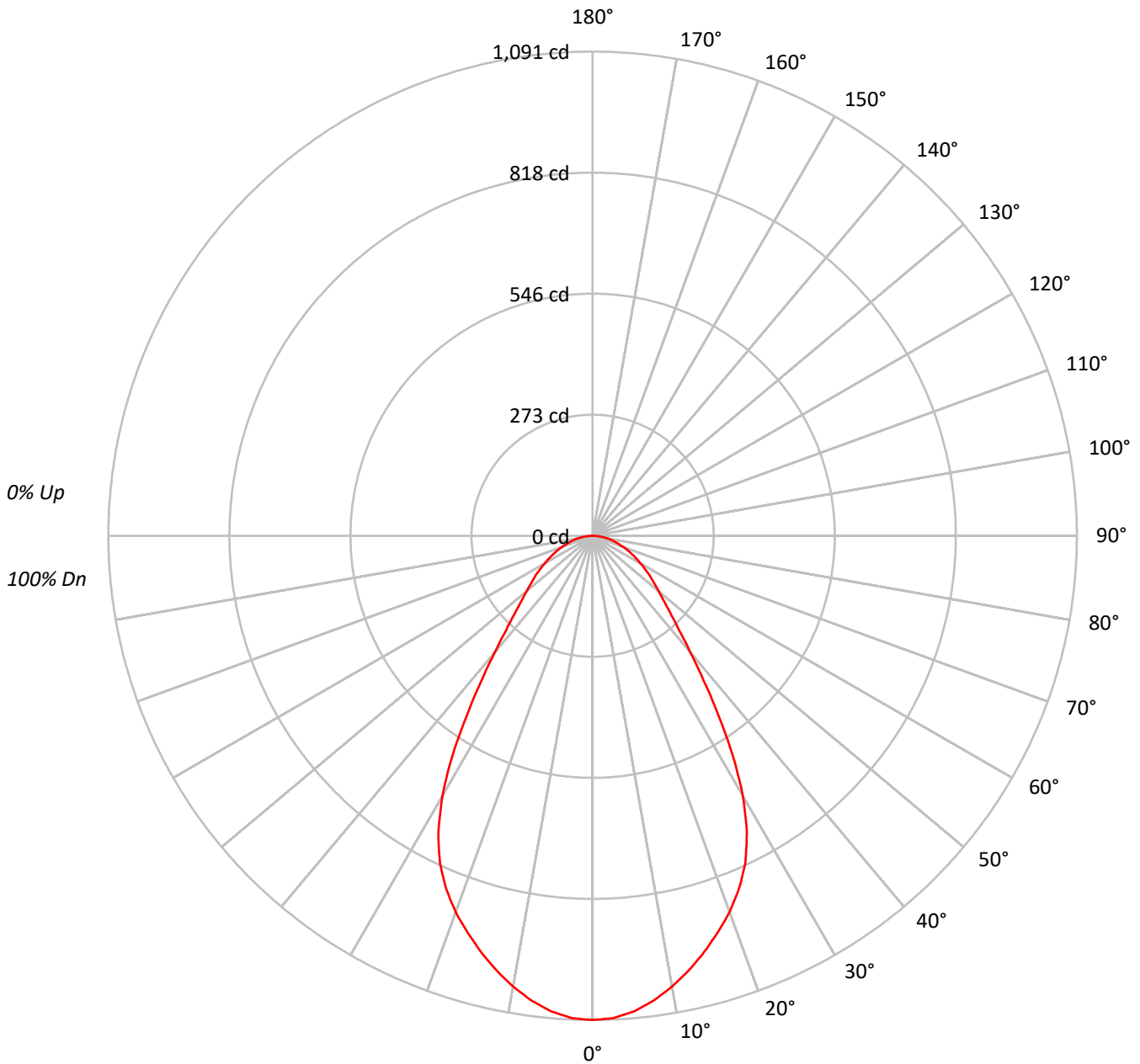
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	55	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°	106327
5°	105236
10°	102079
15°	97980
20°	93570
25°	87510
30°	76175
35°	58773
40°	43485
45°	34222
50°	29399
55°	26727
60°	24365
65°	22553
70°	20830
75°	19543
80°	18128
85°	17109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	6.5
10°-20°	272.9	17.5
20°-30°	369.3	23.7
30°-40°	310.3	19.9
40°-50°	196.4	12.6
50°-60°	141.0	9.0
60°-70°	97.0	6.2
70°-80°	55.0	3.5
80°-90°	16.9	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°	743.4	47.7
0°-40°	1053.7	67.5
0°-60°	1391.1	89.2
0°-90°	1560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1560.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1091	
5°	1076	101
15°	971	273
25°	814	369
35°	494	310
45°	248	196
55°	157	141
65°	98	97
75°	52	55
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1091.0
2.5°	1087.6
5°	1075.7
7.5°	1056.1
10°	1031.5
12.5°	1002.5
15°	971.1
17.5°	937.1
20°	902.2
22.5°	861.4
25°	813.8
27.5°	752.5
30°	676.9
32.5°	588.4
35°	494.0
37.5°	410.7
40°	341.8
42.5°	288.3
45°	248.3
47.5°	217.7
50°	193.9
52.5°	174.3
55°	157.3
57.5°	140.3
60°	125.0
62.5°	110.5
65°	97.8
67.5°	85.0
70°	73.1
72.5°	62.1
75°	51.9
77.5°	41.7
80°	32.3
82.5°	23.8
85°	15.3
87.5°	6.8
90°	0.0



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— 0°-180°







(END OF REPORT)