

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: P201207

Luminaire Tested: **LD4B40D010 EU4B30408035 4LBM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P201207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35240)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B40D010 EU4B30408035 4LBM1LI
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3929.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.76
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

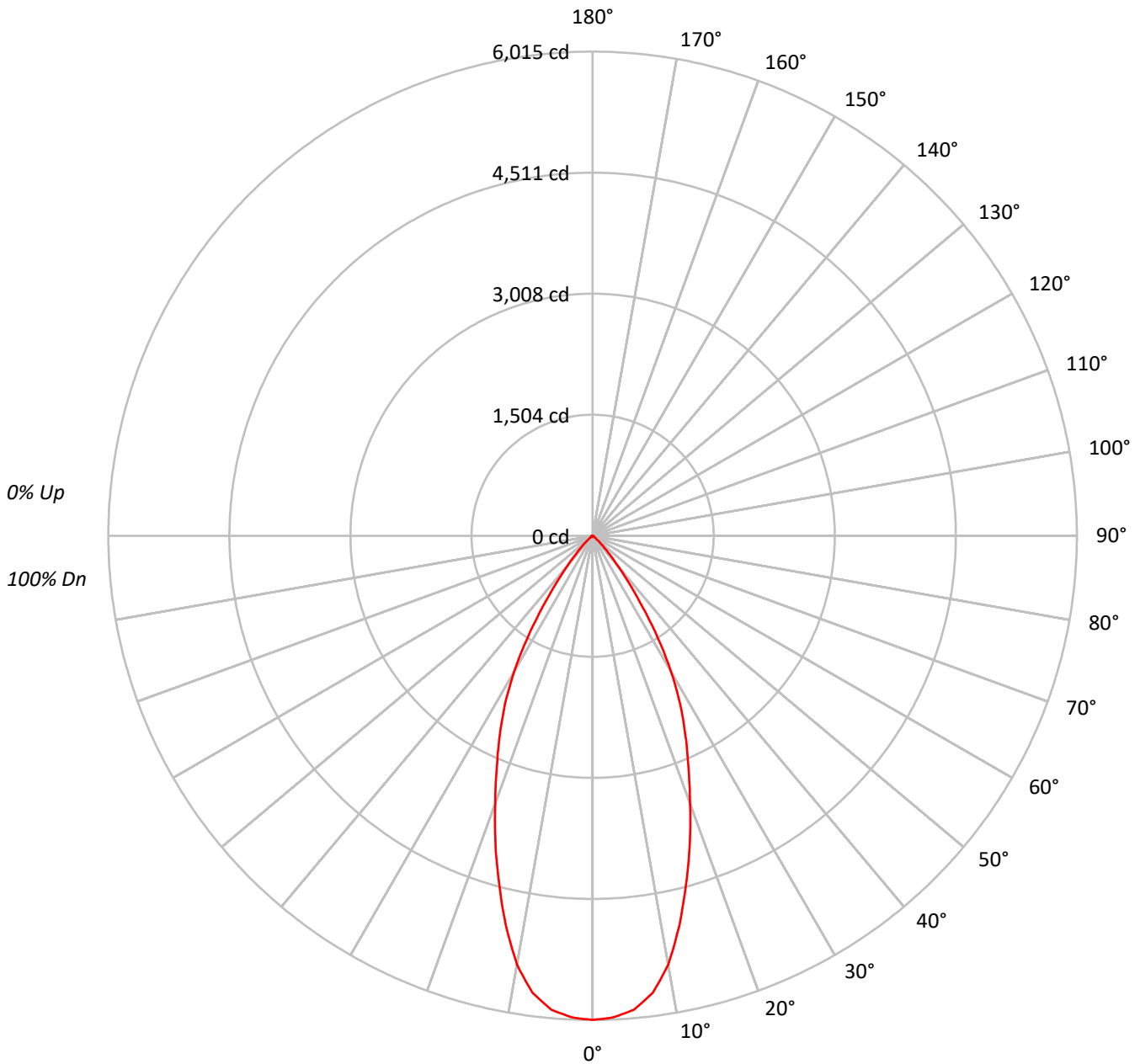
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94				94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88				88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83				83
4	99	92	86	83	97	91	86	82	88	84	81	86	83	80	85	82	79	78				78
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	81	77	75	73				73
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69				69
7	86	77	71	67	85	76	71	67	75	70	67	74	70	67	73	69	66	65				65
8	82	73	67	64	81	72	67	63	71	67	63	70	66	63	70	66	63	61				61
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58				58
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55				55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65131
5°	64227
10°	59485
15°	50266
20°	40754
25°	32556
30°	24350
35°	14344
40°	6826
45°	2844
50°	938
55°	400
60°	288
65°	205
70°	168
75°	113
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.3	14.0
10°-20°	1244.0	31.7
20°-30°	1243.7	31.7
30°-40°	695.4	17.7
40°-50°	163.8	4.2
50°-60°	22.9	0.6
60°-70°	8.2	0.2
70°-80°	2.8	0.1
80°-90°	0.0	0.0
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°	3036.0	77.3
0°-40°	3731.3	95.0
0°-60°	3918.0	99.7
0°-90°	3929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6015	
5°	5909	548
15°	4484	1244
25°	2725	1244
35°	1085	695
45°	186	164
55°	21	23
65°	8	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6014.7
2.5°	5988.2
5°	5908.6
7.5°	5725.5
10°	5409.8
12.5°	4966.7
15°	4483.8
17.5°	4014.2
20°	3536.6
22.5°	3106.8
25°	2724.8
27.5°	2356.0
30°	1947.4
32.5°	1512.3
35°	1085.1
37.5°	732.3
40°	482.9
42.5°	307.8
45°	185.7
47.5°	106.1
50°	55.7
52.5°	31.8
55°	21.2
57.5°	15.9
60°	13.3
62.5°	10.6
65°	8.0
67.5°	5.3
70°	5.3
72.5°	2.7
75°	2.7
77.5°	2.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)