

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: P295267

Luminaire Tested: **LD4B30DE010 EU4B30509030D2W 4LBM0WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P295267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35174)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B30DE010 EU4B30509030D2W 4LBM0WH
Description: PORTFOLIO 4" D2W RN DOWNLIGHT, MEDIUM DISTRIBUTION WITH WHEAT FINISH
Light Source: D2W 1800K-3000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1824.3 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

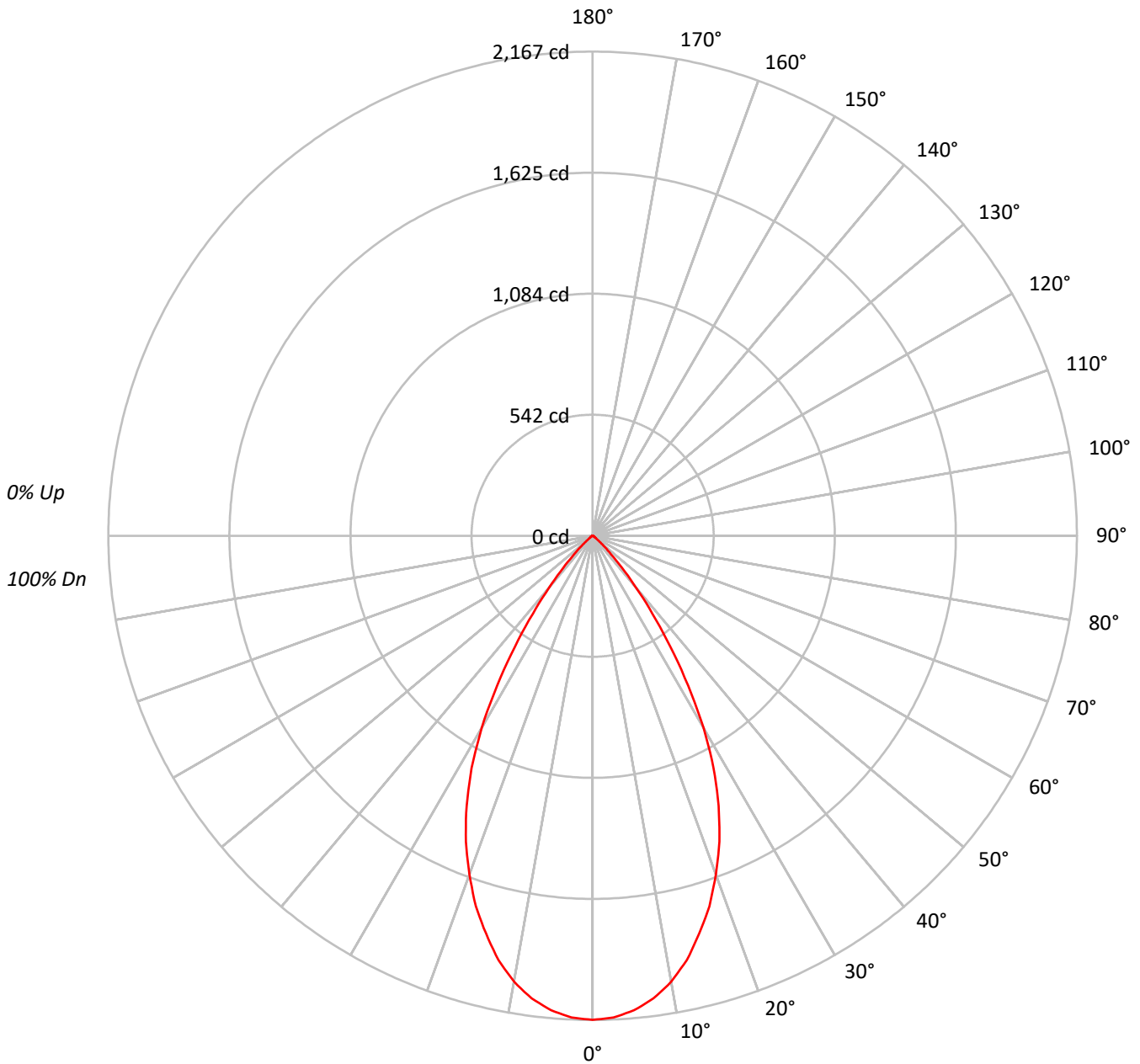
Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				76
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71				71
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66				66
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62				62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58				58
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55				55
10	73	63	57	53	72	62	57	53	62	57	53	61	56	53	60	56	53	52				52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	236724
5°	233790
10°	224833
15°	208494
20°	187374
25°	160810
30°	125116
35°	80870
40°	43046
45°	17909
50°	5949
55°	2572
60°	1770
65°	1396
70°	863
75°	1140
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	11.0
10°-20°	514.6	28.2
20°-30°	603.7	33.1
30°-40°	382.1	20.9
40°-50°	102.3	5.6
50°-60°	14.3	0.8
60°-70°	5.3	0.3
70°-80°	1.8	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°	1318.5	72.3
0°-40°	1700.5	93.2
0°-60°	1817.2	99.6
0°-90°	1824.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2167	
5°	2132	200
15°	1843	515
25°	1334	604
35°	606	382
45°	116	102
55°	14	14
65°	5	5
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2166.6
2.5°	2158.5
5°	2131.6
7.5°	2088.4
10°	2026.5
12.5°	1945.6
15°	1843.2
17.5°	1738.1
20°	1611.5
22.5°	1482.1
25°	1333.9
27.5°	1172.2
30°	991.7
32.5°	795.0
35°	606.3
37.5°	439.2
40°	301.8
42.5°	194.0
45°	115.9
47.5°	64.7
50°	35.0
52.5°	18.9
55°	13.5
57.5°	10.8
60°	8.1
62.5°	8.1
65°	5.4
67.5°	2.7
70°	2.7
72.5°	2.7
75°	2.7
77.5°	0.0
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)