

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: P251833

Luminaire Tested: **LD4B15D010 EU4B10208050 4LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15D010 EU4B10208050 4LBDW1LI
Description: PORTFOLIO 4 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1398.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.32 / 1.18
Luminous Opening: Circular (Dia: 7.42' x H: 0')
CIE Type: Direct

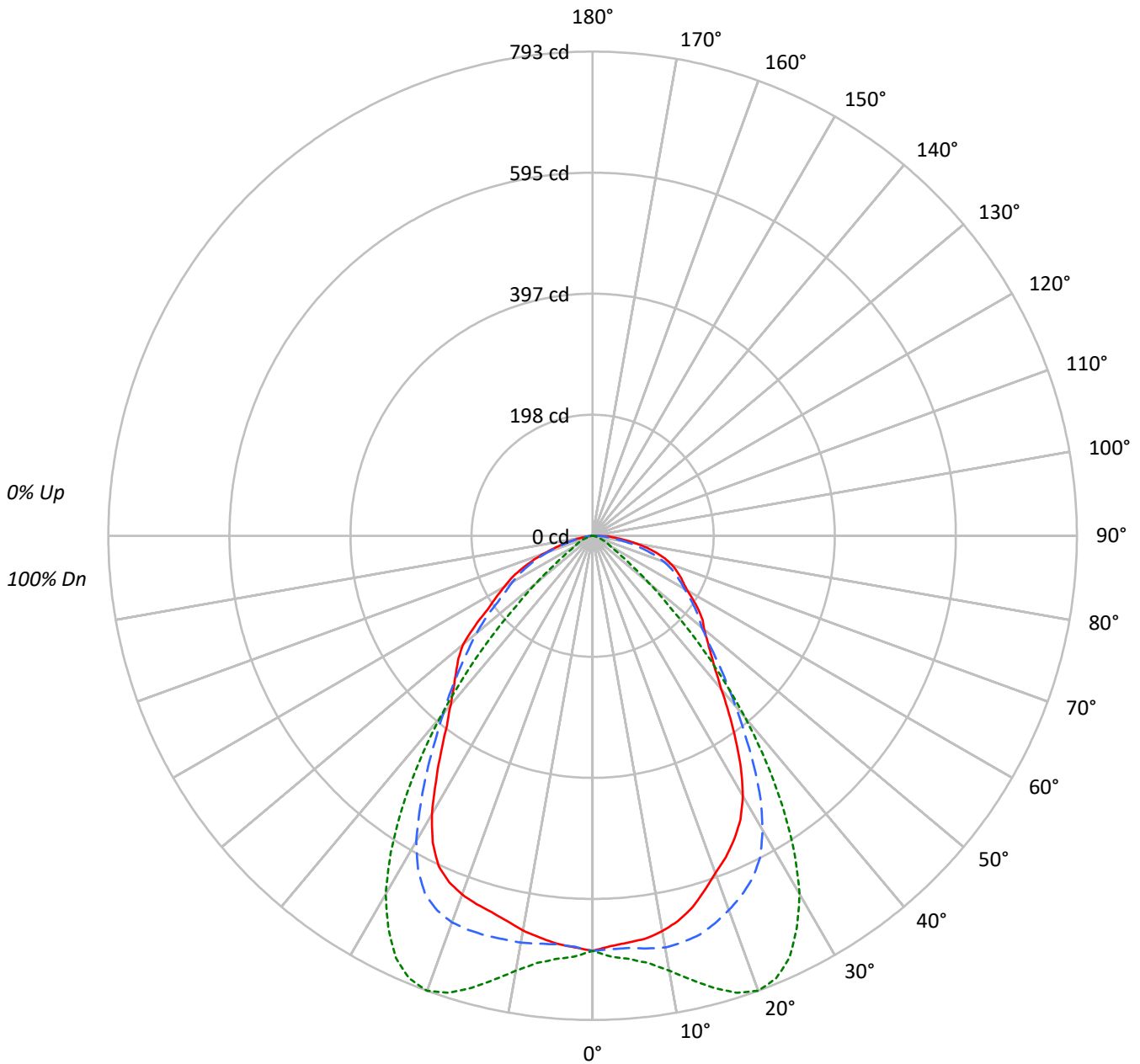
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58				58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52				52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47				47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	169	169	169
5°	167	174	168
10°	166	183	166
15°	163	198	165
20°	156	210	166
25°	151	210	164
30°	142	195	151
35°	124	165	131
40°	106	126	118
45°	96	83	111
50°	92	47	107
55°	92	25	91
60°	89	17	83
65°	94	14	76
70°	100	10	62
75°	105	7	43
80°	103	4	28
85°	107	3	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	4.7
10°-20°	194.8	13.9
20°-30°	297.1	21.3
30°-40°	296.6	21.2
40°-50°	218.7	15.6
50°-60°	149.4	10.7
60°-70°	105.5	7.5
70°-80°	56.3	4.0
80°-90°	14.5	1.0
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°	557.0	39.8
0°-40°	853.6	61.1
0°-60°	1221.7	87.4
0°-90°	1398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1398.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	680	680	680	680	680	
5°	669	678	696	672	671	64
15°	630	677	767	678	638	177
25°	548	619	763	648	597	251
35°	408	461	543	474	432	255
45°	274	287	235	307	316	214
55°	212	204	58	190	209	189
65°	159	150	23	116	128	157
75°	109	89	7	40	44	113
85°	37	24	1	5	0	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
2.5°	672.7	676.7	677.7	684.8	689.9	683.8	673.7	673.7	674.7
5°	668.7	673.7	677.7	689.9	695.9	685.8	671.7	669.7	670.7
7.5°	665.6	672.7	681.8	700.0	706.0	692.9	673.7	665.6	663.6
10°	657.5	667.6	684.8	711.1	723.2	707.0	676.7	661.6	656.5
12.5°	646.4	658.6	681.8	723.2	744.4	720.2	676.7	654.5	646.4
15°	630.3	643.4	676.7	733.3	766.6	734.3	677.7	647.4	638.4
17.5°	609.1	625.2	665.6	738.3	784.8	747.4	676.7	642.4	632.3
20°	587.8	607.0	652.5	738.3	792.9	752.5	673.7	637.3	625.2
22.5°	569.7	588.9	637.3	729.3	784.8	746.4	664.6	628.3	614.1
25°	548.5	568.7	619.2	710.1	762.6	728.2	648.5	610.1	596.9
27.5°	524.2	546.4	593.9	679.8	724.2	694.9	618.2	580.8	566.6
30°	491.9	512.1	556.5	636.3	677.7	649.5	577.7	539.4	526.2
32.5°	452.5	470.7	512.1	583.8	615.1	591.9	525.2	492.9	477.8
35°	408.1	424.2	460.6	517.1	543.4	529.3	473.7	443.4	432.3
37.5°	366.6	378.8	409.1	450.5	466.6	457.6	423.2	401.0	391.9
40°	327.3	339.4	363.6	383.8	387.9	390.9	380.8	366.6	361.6
42.5°	297.0	308.1	323.2	321.2	309.1	326.2	342.4	340.4	336.3
45°	273.7	281.8	286.9	256.6	235.3	263.6	307.1	318.2	316.1
47.5°	254.5	258.6	255.5	205.0	166.7	205.0	275.7	298.0	298.0
50°	238.4	241.4	233.3	170.7	120.2	164.6	248.5	272.7	276.8
52.5°	227.3	228.3	218.2	144.4	82.8	130.3	219.2	240.4	243.4
55°	212.1	213.1	204.0	125.2	57.6	103.0	189.9	209.1	209.1
57.5°	194.9	197.0	187.9	109.1	40.4	85.9	167.7	185.8	186.9
60°	178.8	179.8	173.7	97.0	33.3	73.7	151.5	166.7	166.7
62.5°	167.7	168.7	161.6	89.9	28.3	64.6	134.3	148.5	149.5
65°	158.6	158.6	150.5	82.8	23.2	54.5	116.2	128.3	128.3
67.5°	148.5	146.5	138.4	73.7	18.2	44.4	98.0	107.1	106.1
70°	137.4	134.3	124.2	63.6	13.1	35.4	76.8	83.8	84.8
72.5°	124.2	120.2	107.1	52.5	10.1	26.3	56.6	62.6	62.6
75°	109.1	104.0	88.9	41.4	7.1	18.2	40.4	44.4	44.4
77.5°	90.9	85.9	70.7	30.3	5.1	12.1	27.3	30.3	30.3
80°	71.7	66.7	52.5	21.2	3.0	7.1	17.2	20.2	19.2
82.5°	53.5	48.5	35.4	13.1	2.0	4.0	11.1	11.1	10.1
85°	37.4	34.3	24.2	8.1	1.0	2.0	5.1	2.0	0.0
87.5°	25.3	22.2	15.2	4.0	0.0	1.0	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)