

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: P209430

Luminaire Tested: **LDSQ6B15D010 EU6B10209730 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35359)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6B15D010 EU6B10209730 6LBCSSQ1MMS
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE SHALLOW CAST METALLIC SILVER TRIM
MEDIUM DISTRIBUTION WITH MATTE METALLIC SILVER TRIM
WATTAGE D010TR-14.39 W DE010-14.29 W D5LT-14.34 W DMX-14.46 W DL2-15.8 W DL3-15.28 W DLE-15.432 W
Light Source: HIGH LUMEN LED 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1191.8 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

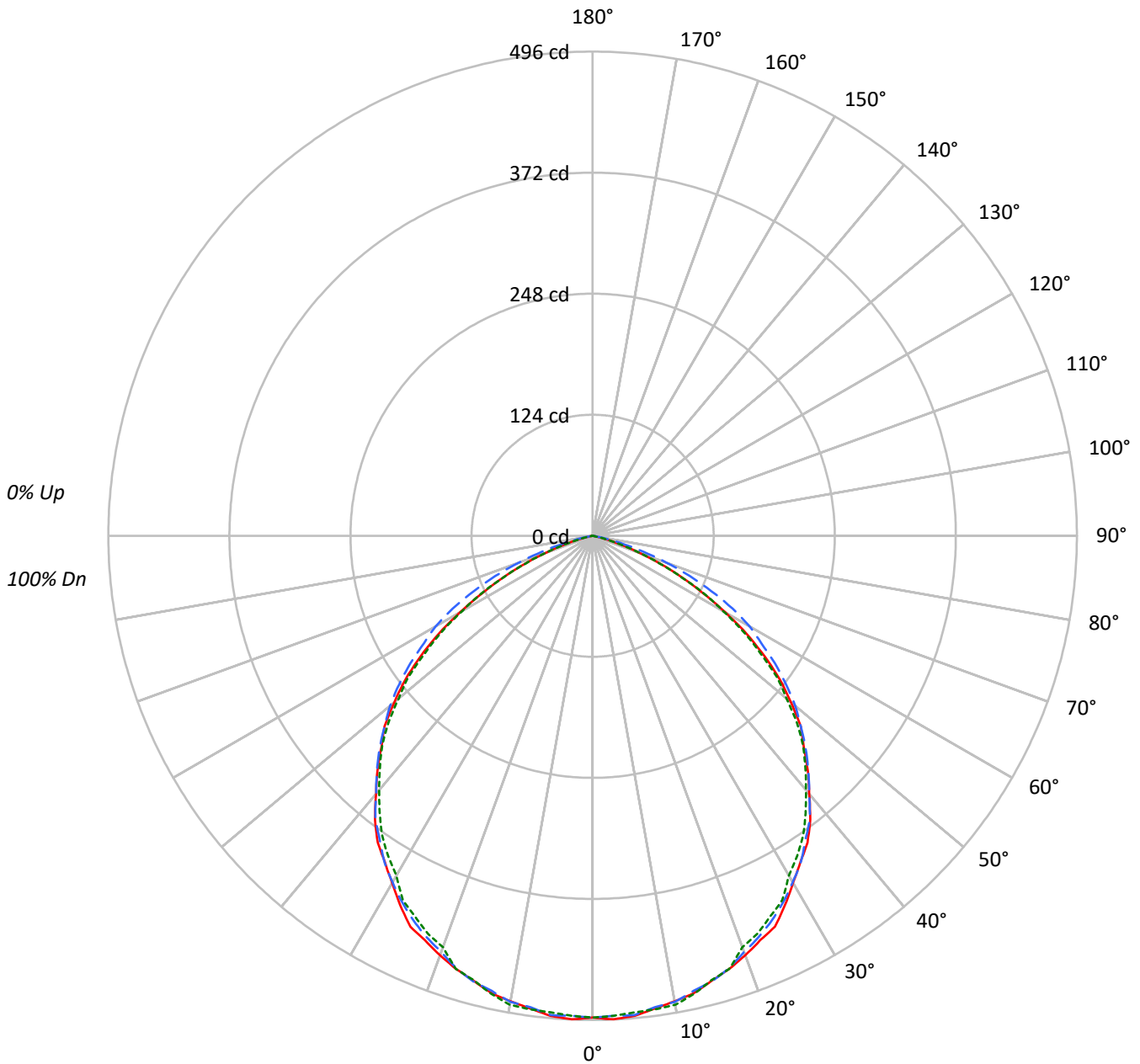
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56																			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49																			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43																			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38																			
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34																			
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	3.9
10°-20°	133.1	11.2
20°-30°	200.3	16.8
30°-40°	237.0	19.9
40°-50°	236.5	19.8
50°-60°	196.1	16.5
60°-70°	114.6	9.6
70°-80°	27.3	2.3
80°-90°	0.2	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°	380.1	31.9
0°-40°	617.1	51.8
0°-60°	1049.7	88.1
0°-90°	1191.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1191.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	494	491	493	491	490	47
15°	472	471	472	470	471	133
25°	442	437	435	433	430	202
35°	384	380	380	378	376	239
45°	306	306	309	305	305	237
55°	215	222	228	222	210	191
65°	101	114	134	114	100	101
75°	15	21	33	21	14	20
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6
2.5°	495.8	492.9	495.1	490.7	493.6	490.7	491.5	490.0	492.9	492.2	491.5
5°	493.6	494.4	492.9	494.4	492.2	490.0	492.2	490.7	486.4	492.9	491.5
7.5°	488.5	489.3	487.8	490.0	488.5	485.6	491.5	487.1	486.4	487.1	490.0
10°	484.2	485.6	484.9	484.2	484.9	484.9	483.4	481.3	483.4	484.9	484.2
12.5°	479.8	482.0	480.5	479.1	477.6	478.4	479.8	476.2	476.2	477.6	482.0
15°	471.8	473.3	474.0	471.1	471.1	471.8	474.7	468.9	471.8	472.5	473.3
17.5°	465.2	466.0	466.0	463.8	465.2	463.1	465.2	462.3	465.2	464.5	466.0
20°	457.2	458.7	457.2	457.2	455.8	456.5	456.5	456.5	454.3	453.6	455.1
22.5°	448.5	448.5	447.0	448.5	447.0	446.3	450.0	444.1	450.0	444.9	449.2
25°	441.9	438.3	436.1	435.4	438.3	435.4	436.8	434.7	436.1	434.7	435.4
27.5°	426.7	424.5	423.7	424.5	424.5	423.7	426.7	418.6	423.7	423.0	423.0
30°	410.6	410.6	412.1	410.6	412.1	409.9	412.8	406.3	410.6	409.9	410.6
32.5°	396.1	396.8	396.8	398.3	396.1	396.8	396.8	394.6	396.1	396.8	395.3
35°	383.7	380.1	380.1	380.1	380.1	380.1	381.5	379.3	381.5	380.1	380.1
37.5°	366.2	362.6	362.6	361.9	365.5	363.3	367.0	364.0	364.0	365.5	365.5
40°	345.1	346.6	344.4	347.3	346.6	343.7	350.2	345.8	348.8	345.1	348.0
42.5°	326.2	326.9	326.2	325.5	328.4	327.6	330.5	327.6	326.9	326.9	332.0
45°	305.8	305.8	305.8	308.0	305.8	306.5	309.4	308.0	309.4	308.7	313.8
47.5°	289.0	285.4	284.7	289.0	288.3	289.0	289.0	289.8	290.5	289.0	291.2
50°	265.0	263.6	263.6	264.3	265.0	266.5	268.7	270.1	268.7	270.8	271.6
52.5°	241.7	240.3	241.0	243.9	245.4	244.6	248.3	249.0	248.3	249.7	249.7
55°	214.8	213.3	215.5	219.2	221.3	223.5	227.2	224.2	227.2	227.9	228.6
57.5°	187.1	186.4	187.1	190.8	192.9	198.0	203.9	203.9	206.8	204.6	206.8
60°	156.5	156.5	159.5	161.6	167.5	171.1	176.9	179.8	182.7	185.7	184.2
62.5°	127.4	128.1	130.3	135.4	139.1	144.2	150.7	153.6	158.7	161.6	160.2
65°	101.2	101.2	102.7	107.0	110.7	117.2	123.0	129.6	132.5	134.0	134.7
67.5°	75.7	75.0	77.9	80.8	84.5	91.0	97.6	101.2	106.3	107.8	107.0
70°	51.0	51.7	53.2	56.1	60.4	65.5	72.8	75.7	78.6	80.1	78.6
72.5°	32.0	32.0	32.8	35.7	38.6	42.2	47.3	50.2	53.9	54.6	53.2
75°	14.6	14.6	16.0	17.5	19.7	22.6	26.2	28.4	30.6	32.8	32.8
77.5°	2.9	3.6	4.4	4.4	5.8	8.0	10.2	12.4	14.6	14.6	14.6
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	3.6	3.6	3.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6
2.5°	493.6	498.0	493.6	491.5	494.4	493.6	491.5	492.2
5°	491.5	492.9	494.4	488.5	492.2	492.9	491.5	490.0
7.5°	489.3	490.0	489.3	487.8	487.8	487.8	489.3	489.3
10°	488.5	486.4	482.7	480.5	482.7	482.7	482.0	487.8
12.5°	479.1	482.0	479.8	475.4	479.8	479.1	479.1	480.5
15°	471.8	471.8	473.3	467.4	470.3	469.6	469.6	471.1
17.5°	464.5	464.5	463.8	462.3	461.6	463.8	461.6	465.2
20°	454.3	455.8	460.1	452.9	455.1	452.9	452.9	448.5
22.5°	441.9	449.2	445.6	444.9	444.1	444.9	446.3	441.2
25°	433.9	433.9	435.4	431.0	431.0	432.5	431.8	430.3
27.5°	423.0	422.3	421.6	420.1	423.7	420.8	420.8	420.8
30°	407.7	409.9	409.2	405.5	409.9	408.5	406.3	401.9
32.5°	394.6	397.5	393.2	392.4	391.7	392.4	393.2	389.5
35°	378.6	379.3	379.3	376.4	377.1	376.4	375.0	375.7
37.5°	364.0	363.3	359.7	358.2	358.9	358.9	359.7	358.2
40°	343.7	345.8	345.8	340.7	342.2	340.7	340.7	340.0
42.5°	326.9	327.6	325.5	323.3	323.3	322.5	321.1	322.5
45°	309.4	308.7	306.5	304.3	304.3	303.6	302.2	305.1
47.5°	289.8	288.3	287.6	284.7	284.7	280.3	281.0	284.0
50°	270.1	268.7	265.8	264.3	262.1	259.9	259.2	259.2
52.5°	246.8	246.8	243.9	241.0	240.3	238.8	237.4	238.1
55°	226.4	226.4	224.2	219.2	216.2	212.6	210.4	209.7
57.5°	203.1	201.7	197.3	191.5	188.6	185.7	183.5	183.5
60°	179.8	176.2	171.8	166.7	161.6	156.5	155.1	154.4
62.5°	154.4	150.7	142.7	136.9	133.2	130.3	127.4	129.6
65°	128.9	123.8	116.5	110.7	107.0	102.7	100.5	100.5
67.5°	101.9	96.8	89.6	83.7	80.1	77.2	74.3	74.3
70°	75.0	71.4	64.8	59.7	56.8	52.4	51.7	51.7
72.5°	51.0	46.6	41.5	37.9	34.9	32.0	30.6	29.9
75°	28.4	25.5	21.8	19.7	16.7	15.3	13.8	13.8
77.5°	11.6	9.5	7.3	5.8	4.4	3.6	2.9	3.6
80°	2.2	1.5	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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









(END OF REPORT)