

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: P209421

Luminaire Tested: **LDSQ6B15D010 EU6B10208040 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209421
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 EU6B10208040 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 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1654.4 lumens
Efficiency: N/A
Efficacy: 115.0 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

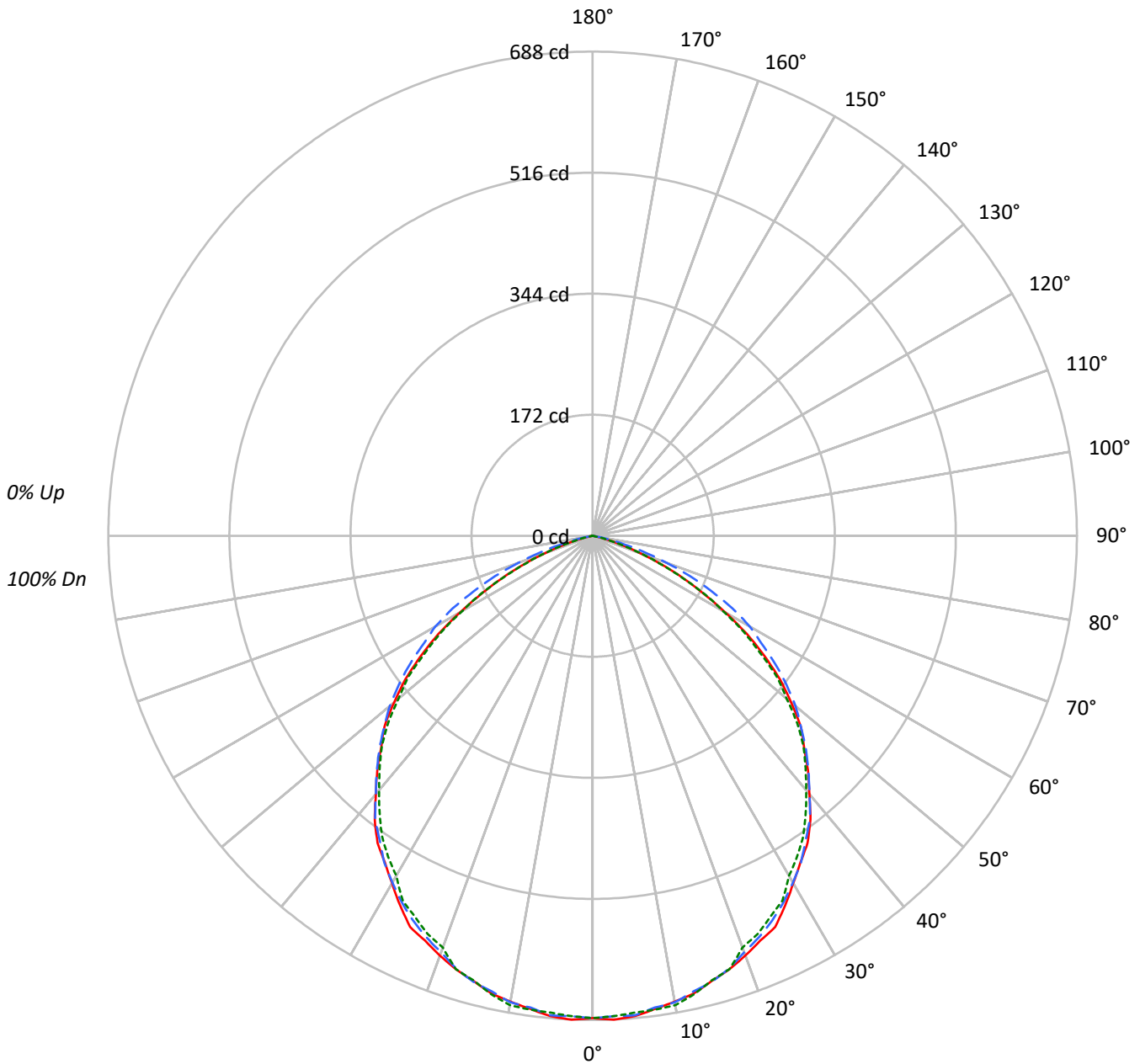
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	64.8	3.9
10°-20°	184.8	11.2
20°-30°	278.1	16.8
30°-40°	329.0	19.9
40°-50°	328.3	19.8
50°-60°	272.2	16.5
60°-70°	159.1	9.6
70°-80°	37.9	2.3
80°-90°	0.3	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°	527.7	31.9
0°-40°	856.7	51.8
0°-60°	1457.2	88.1
0°-90°	1654.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1654.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	685	682	684	682	680	65
15°	655	654	656	653	654	185
25°	614	606	603	601	597	280
35°	533	528	528	525	522	331
45°	424	425	428	424	424	328
55°	298	309	316	308	291	265
65°	140	158	186	158	140	140
75°	20	29	46	29	19	27
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°	685.3	685.3	685.3	685.3	685.3	685.3	685.3	685.3	685.3	685.3	685.3
2.5°	688.3	684.2	687.3	681.2	685.3	681.2	682.2	680.2	684.2	683.2	682.2
5°	685.3	686.3	684.2	686.3	683.2	680.2	683.2	681.2	675.1	684.2	682.2
7.5°	678.2	679.2	677.2	680.2	678.2	674.1	682.2	676.2	675.1	676.2	680.2
10°	672.1	674.1	673.1	672.1	673.1	673.1	671.1	668.1	671.1	673.1	672.1
12.5°	666.0	669.1	667.1	665.0	663.0	664.0	666.0	661.0	661.0	663.0	669.1
15°	654.9	657.0	658.0	653.9	653.9	654.9	659.0	650.9	654.9	655.9	657.0
17.5°	645.8	646.8	646.8	643.8	645.8	642.8	645.8	641.8	645.8	644.8	646.8
20°	634.7	636.7	634.7	634.7	632.7	633.7	633.7	633.7	630.7	629.7	631.7
22.5°	622.6	622.6	620.6	622.6	620.6	619.6	624.6	616.5	624.6	617.5	623.6
25°	613.5	608.4	605.4	604.4	608.4	604.4	606.4	603.4	605.4	603.4	604.4
27.5°	592.3	589.2	588.2	589.2	589.2	588.2	592.3	581.1	588.2	587.2	587.2
30°	570.0	570.0	572.1	570.0	572.1	569.0	573.1	564.0	570.0	569.0	570.0
32.5°	549.8	550.8	550.8	552.8	549.8	550.8	550.8	547.8	549.8	550.8	548.8
35°	532.6	527.6	527.6	527.6	527.6	527.6	529.6	526.6	529.6	527.6	527.6
37.5°	508.4	503.3	503.3	502.3	507.4	504.3	509.4	505.3	505.3	507.4	507.4
40°	479.1	481.1	478.1	482.1	481.1	477.0	486.1	480.1	484.1	479.1	483.1
42.5°	452.8	453.8	452.8	451.8	455.8	454.8	458.9	454.8	453.8	453.8	460.9
45°	424.5	424.5	424.5	427.5	424.5	425.5	429.5	427.5	429.5	428.5	435.6
47.5°	401.2	396.2	395.2	401.2	400.2	401.2	401.2	402.3	403.3	401.2	404.3
50°	367.9	365.9	365.9	366.9	367.9	369.9	372.9	375.0	372.9	376.0	377.0
52.5°	335.6	333.5	334.5	338.6	340.6	339.6	344.6	345.7	344.6	346.7	346.7
55°	298.2	296.1	299.2	304.2	307.3	310.3	315.3	311.3	315.3	316.3	317.4
57.5°	259.7	258.7	259.7	264.8	267.8	274.9	283.0	283.0	287.0	284.0	287.0
60°	217.3	217.3	221.3	224.4	232.5	237.5	245.6	249.6	253.7	257.7	255.7
62.5°	176.9	177.9	180.9	188.0	193.0	200.1	209.2	213.3	220.3	224.4	222.4
65°	140.5	140.5	142.5	148.6	153.6	162.7	170.8	179.9	183.9	186.0	187.0
67.5°	105.1	104.1	108.1	112.2	117.2	126.3	135.4	140.5	147.6	149.6	148.6
70°	70.7	71.8	73.8	77.8	83.9	91.0	101.1	105.1	109.2	111.2	109.2
72.5°	44.5	44.5	45.5	49.5	53.6	58.6	65.7	69.7	74.8	75.8	73.8
75°	20.2	20.2	22.2	24.3	27.3	31.3	36.4	39.4	42.4	45.5	45.5
77.5°	4.0	5.1	6.1	6.1	8.1	11.1	14.1	17.2	20.2	20.2	20.2
80°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	5.1	5.1	5.1
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°	685.3	685.3	685.3	685.3	685.3	685.3	685.3	685.3
2.5°	685.3	691.3	685.3	682.2	686.3	685.3	682.2	683.2
5°	682.2	684.2	686.3	678.2	683.2	684.2	682.2	680.2
7.5°	679.2	680.2	679.2	677.2	677.2	677.2	679.2	679.2
10°	678.2	675.1	670.1	667.1	670.1	670.1	669.1	677.2
12.5°	665.0	669.1	666.0	660.0	666.0	665.0	665.0	667.1
15°	654.9	654.9	657.0	648.9	652.9	651.9	651.9	653.9
17.5°	644.8	644.8	643.8	641.8	640.8	643.8	640.8	645.8
20°	630.7	632.7	638.8	628.7	631.7	628.7	628.7	622.6
22.5°	613.5	623.6	618.5	617.5	616.5	617.5	619.6	612.5
25°	602.4	602.4	604.4	598.3	598.3	600.4	599.3	597.3
27.5°	587.2	586.2	585.2	583.2	588.2	584.2	584.2	584.2
30°	566.0	569.0	568.0	563.0	569.0	567.0	564.0	557.9
32.5°	547.8	551.8	545.8	544.8	543.8	544.8	545.8	540.7
35°	525.6	526.6	526.6	522.5	523.5	522.5	520.5	521.5
37.5°	505.3	504.3	499.3	497.3	498.3	498.3	499.3	497.3
40°	477.0	480.1	480.1	473.0	475.0	473.0	473.0	472.0
42.5°	453.8	454.8	451.8	448.7	448.7	447.7	445.7	447.7
45°	429.5	428.5	425.5	422.5	422.5	421.5	419.4	423.5
47.5°	402.3	400.2	399.2	395.2	395.2	389.1	390.1	394.2
50°	375.0	372.9	368.9	366.9	363.8	360.8	359.8	359.8
52.5°	342.6	342.6	338.6	334.5	333.5	331.5	329.5	330.5
55°	314.3	314.3	311.3	304.2	300.2	295.1	292.1	291.1
57.5°	282.0	280.0	273.9	265.8	261.8	257.7	254.7	254.7
60°	249.6	244.6	238.5	231.4	224.4	217.3	215.3	214.3
62.5°	214.3	209.2	198.1	190.0	185.0	180.9	176.9	179.9
65°	178.9	171.8	161.7	153.6	148.6	142.5	139.5	139.5
67.5°	141.5	134.4	124.3	116.2	111.2	107.1	103.1	103.1
70°	104.1	99.0	90.0	82.9	78.8	72.8	71.8	71.8
72.5°	70.7	64.7	57.6	52.6	48.5	44.5	42.4	41.4
75°	39.4	35.4	30.3	27.3	23.2	21.2	19.2	19.2
77.5°	16.2	13.1	10.1	8.1	6.1	5.1	4.0	5.1
80°	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
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



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









(END OF REPORT)