

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: P209422

Luminaire Tested: **LDSQ6B15D010 EU6B10208050 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209422
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 EU6B10208050 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 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1653.6 lumens
Efficiency: N/A
Efficacy: 114.9 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

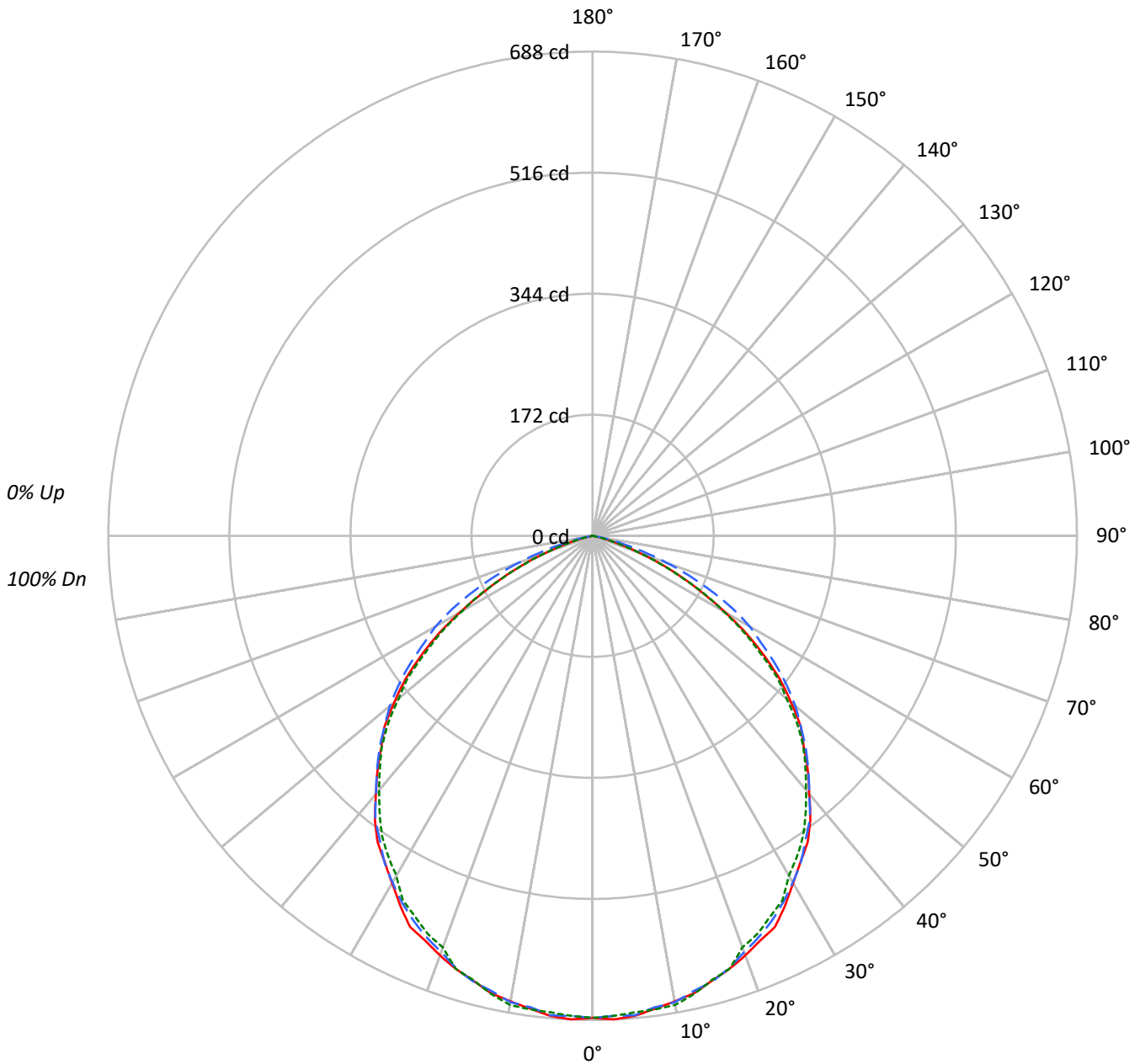
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	184.7	11.2
20°-30°	277.9	16.8
30°-40°	328.8	19.9
40°-50°	328.1	19.8
50°-60°	272.1	16.5
60°-70°	159.0	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°	527.4	31.9
0°-40°	856.2	51.8
0°-60°	1456.5	88.1
0°-90°	1653.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1653.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	685	681	684	682	680	65
15°	655	654	656	653	654	185
25°	613	606	603	601	597	280
35°	532	527	527	524	521	331
45°	424	425	428	424	423	328
55°	298	309	316	308	291	265
65°	140	158	186	158	139	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°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
2.5°	687.9	683.9	686.9	680.8	684.9	680.8	681.9	679.8	683.9	682.9	681.9
5°	684.9	685.9	683.9	685.9	682.9	679.8	682.9	680.8	674.8	683.9	681.9
7.5°	677.8	678.8	676.8	679.8	677.8	673.8	681.9	675.8	674.8	675.8	679.8
10°	671.8	673.8	672.8	671.8	672.8	672.8	670.7	667.7	670.7	672.8	671.8
12.5°	665.7	668.7	666.7	664.7	662.7	663.7	665.7	660.6	660.6	662.7	668.7
15°	654.6	656.6	657.6	653.6	653.6	654.6	658.6	650.5	654.6	655.6	656.6
17.5°	645.5	646.5	646.5	643.5	645.5	642.5	645.5	641.5	645.5	644.5	646.5
20°	634.4	636.4	634.4	634.4	632.4	633.4	633.4	633.4	630.3	629.3	631.4
22.5°	622.3	622.3	620.2	622.3	620.2	619.2	624.3	616.2	624.3	617.2	623.3
25°	613.2	608.1	605.1	604.1	608.1	604.1	606.1	603.1	605.1	603.1	604.1
27.5°	592.0	588.9	587.9	588.9	588.9	587.9	592.0	580.8	587.9	586.9	586.9
30°	569.7	569.7	571.8	569.7	571.8	568.7	572.8	563.7	569.7	568.7	569.7
32.5°	549.5	550.5	550.5	552.6	549.5	550.5	550.5	547.5	549.5	550.5	548.5
35°	532.4	527.3	527.3	527.3	527.3	527.3	529.3	526.3	529.3	527.3	527.3
37.5°	508.1	503.1	503.1	502.1	507.1	504.1	509.1	505.1	505.1	507.1	507.1
40°	478.8	480.8	477.8	481.8	480.8	476.8	485.9	479.8	483.9	478.8	482.9
42.5°	452.6	453.6	452.6	451.5	455.6	454.6	458.6	454.6	453.6	453.6	460.6
45°	424.3	424.3	424.3	427.3	424.3	425.3	429.3	427.3	429.3	428.3	435.4
47.5°	401.0	396.0	395.0	401.0	400.0	401.0	401.0	402.0	403.1	401.0	404.1
50°	367.7	365.7	365.7	366.7	367.7	369.7	372.7	374.8	372.7	375.8	376.8
52.5°	335.4	333.4	334.4	338.4	340.4	339.4	344.5	345.5	344.5	346.5	346.5
55°	298.0	296.0	299.0	304.1	307.1	310.1	315.2	311.1	315.2	316.2	317.2
57.5°	259.6	258.6	259.6	264.7	267.7	274.8	282.8	282.8	286.9	283.9	286.9
60°	217.2	217.2	221.2	224.3	232.3	237.4	245.5	249.5	253.6	257.6	255.6
62.5°	176.8	177.8	180.8	187.9	192.9	200.0	209.1	213.1	220.2	224.3	222.2
65°	140.4	140.4	142.4	148.5	153.5	162.6	170.7	179.8	183.8	185.9	186.9
67.5°	105.1	104.0	108.1	112.1	117.2	126.3	135.4	140.4	147.5	149.5	148.5
70°	70.7	71.7	73.7	77.8	83.8	90.9	101.0	105.1	109.1	111.1	109.1
72.5°	44.4	44.4	45.5	49.5	53.5	58.6	65.7	69.7	74.8	75.8	73.7
75°	20.2	20.2	22.2	24.2	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°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
2.5°	684.9	691.0	684.9	681.9	685.9	684.9	681.9	682.9
5°	681.9	683.9	685.9	677.8	682.9	683.9	681.9	679.8
7.5°	678.8	679.8	678.8	676.8	676.8	676.8	678.8	678.8
10°	677.8	674.8	669.7	666.7	669.7	669.7	668.7	676.8
12.5°	664.7	668.7	665.7	659.6	665.7	664.7	664.7	666.7
15°	654.6	654.6	656.6	648.5	652.6	651.6	651.6	653.6
17.5°	644.5	644.5	643.5	641.5	640.4	643.5	640.4	645.5
20°	630.3	632.4	638.4	628.3	631.4	628.3	628.3	622.3
22.5°	613.2	623.3	618.2	617.2	616.2	617.2	619.2	612.2
25°	602.1	602.1	604.1	598.0	598.0	600.0	599.0	597.0
27.5°	586.9	585.9	584.9	582.9	587.9	583.9	583.9	583.9
30°	565.7	568.7	567.7	562.7	568.7	566.7	563.7	557.6
32.5°	547.5	551.5	545.5	544.5	543.5	544.5	545.5	540.4
35°	525.3	526.3	526.3	522.3	523.3	522.3	520.2	521.2
37.5°	505.1	504.1	499.0	497.0	498.0	498.0	499.0	497.0
40°	476.8	479.8	479.8	472.8	474.8	472.8	472.8	471.7
42.5°	453.6	454.6	451.5	448.5	448.5	447.5	445.5	447.5
45°	429.3	428.3	425.3	422.2	422.2	421.2	419.2	423.3
47.5°	402.0	400.0	399.0	395.0	395.0	388.9	389.9	394.0
50°	374.8	372.7	368.7	366.7	363.7	360.6	359.6	359.6
52.5°	342.4	342.4	338.4	334.4	333.4	331.3	329.3	330.3
55°	314.2	314.2	311.1	304.1	300.0	295.0	291.9	290.9
57.5°	281.8	279.8	273.8	265.7	261.6	257.6	254.6	254.6
60°	249.5	244.5	238.4	231.3	224.3	217.2	215.2	214.2
62.5°	214.2	209.1	198.0	189.9	184.9	180.8	176.8	179.8
65°	178.8	171.7	161.6	153.5	148.5	142.4	139.4	139.4
67.5°	141.4	134.4	124.2	116.2	111.1	107.1	103.0	103.0
70°	104.0	99.0	89.9	82.8	78.8	72.7	71.7	71.7
72.5°	70.7	64.7	57.6	52.5	48.5	44.4	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)