

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: P209429

Luminaire Tested: **LDSQ6B15D010 EU6B10209727 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209429
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 EU6B10209727 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 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1140.4 lumens
Efficiency: N/A
Efficacy: 79.3 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

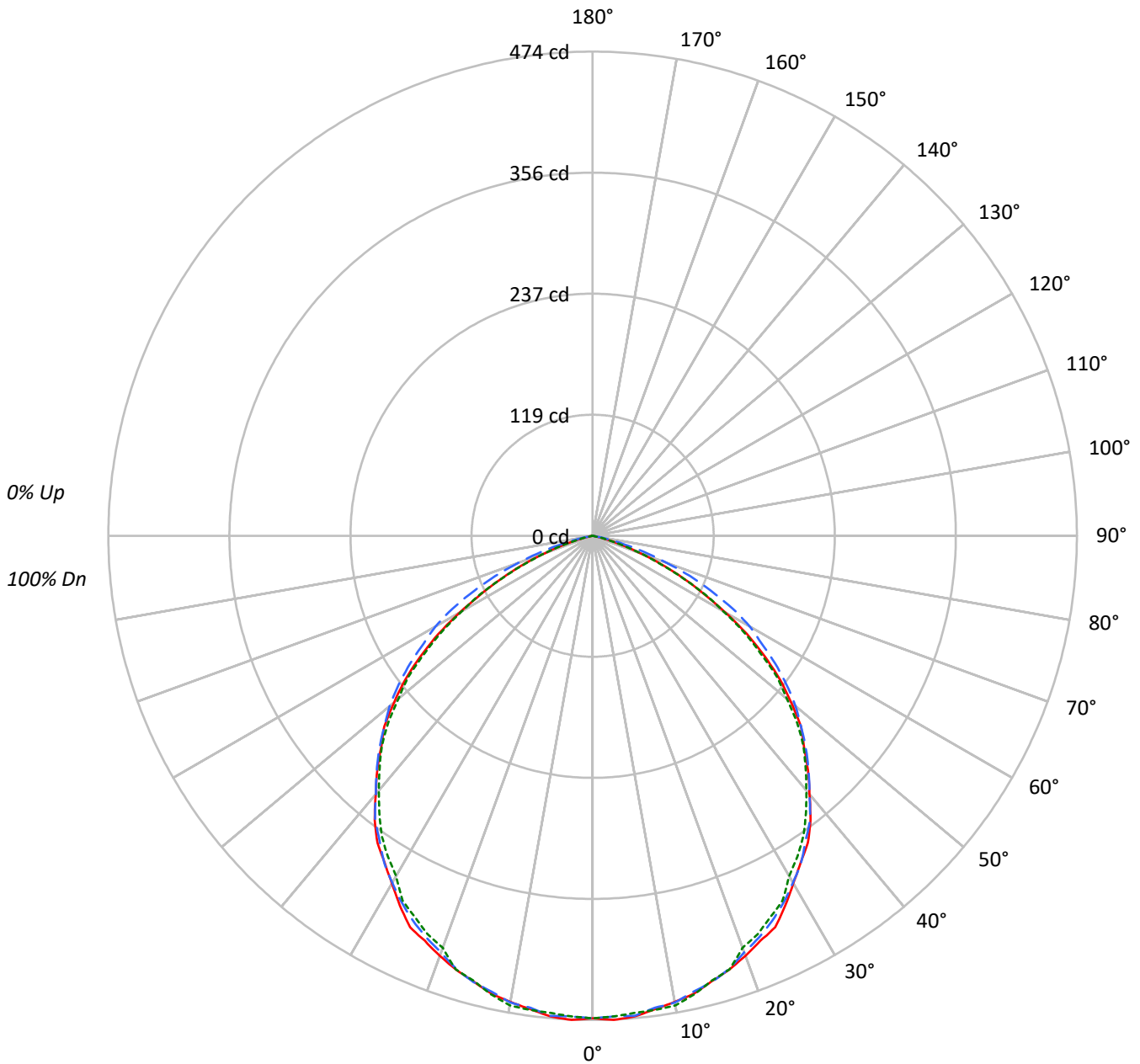
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75				75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56				56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				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°	44.7	3.9
10°-20°	127.4	11.2
20°-30°	191.7	16.8
30°-40°	226.8	19.9
40°-50°	226.3	19.8
50°-60°	187.7	16.5
60°-70°	109.6	9.6
70°-80°	26.1	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°	363.8	31.9
0°-40°	590.5	51.8
0°-60°	1004.5	88.1
0°-90°	1140.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	472	472	472	472	472	
5°	472	470	472	470	469	45
15°	451	451	452	450	451	128
25°	423	418	416	414	412	193
35°	367	364	364	362	360	228
45°	293	293	295	292	292	226
55°	206	213	218	212	201	182
65°	97	109	128	109	96	96
75°	14	20	31	20	13	19
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°	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3
2.5°	474.4	471.7	473.7	469.6	472.3	469.6	470.3	468.9	471.7	471.0	470.3
5°	472.3	473.0	471.7	473.0	471.0	468.9	471.0	469.6	465.4	471.7	470.3
7.5°	467.5	468.2	466.8	468.9	467.5	464.7	470.3	466.1	465.4	466.1	468.9
10°	463.3	464.7	464.0	463.3	464.0	464.0	462.6	460.5	462.6	464.0	463.3
12.5°	459.1	461.2	459.8	458.4	457.0	457.7	459.1	455.6	455.6	457.0	461.2
15°	451.4	452.8	453.5	450.8	450.8	451.4	454.2	448.7	451.4	452.1	452.8
17.5°	445.2	445.9	445.9	443.8	445.2	443.1	445.2	442.4	445.2	444.5	445.9
20°	437.5	438.9	437.5	437.5	436.1	436.8	436.8	436.8	434.7	434.0	435.4
22.5°	429.2	429.2	427.8	429.2	427.8	427.1	430.5	425.0	430.5	425.7	429.9
25°	422.9	419.4	417.3	416.6	419.4	416.6	418.0	415.9	417.3	415.9	416.6
27.5°	408.3	406.2	405.5	406.2	406.2	405.5	408.3	400.6	405.5	404.8	404.8
30°	392.9	392.9	394.3	392.9	394.3	392.2	395.0	388.7	392.9	392.2	392.9
32.5°	379.0	379.7	379.7	381.1	379.0	379.7	379.7	377.6	379.0	379.7	378.3
35°	367.2	363.7	363.7	363.7	363.7	363.7	365.1	363.0	365.1	363.7	363.7
37.5°	350.4	346.9	346.9	346.3	349.7	347.6	351.1	348.3	348.3	349.7	349.7
40°	330.2	331.6	329.5	332.3	331.6	328.8	335.1	330.9	333.7	330.2	333.0
42.5°	312.1	312.8	312.1	311.4	314.2	313.5	316.3	313.5	312.8	312.8	317.7
45°	292.6	292.6	292.6	294.7	292.6	293.3	296.1	294.7	296.1	295.4	300.3
47.5°	276.6	273.1	272.4	276.6	275.9	276.6	276.6	277.3	278.0	276.6	278.7
50°	253.6	252.2	252.2	252.9	253.6	255.0	257.1	258.5	257.1	259.2	259.9
52.5°	231.3	229.9	230.6	233.4	234.8	234.1	237.6	238.3	237.6	239.0	239.0
55°	205.5	204.1	206.2	209.7	211.8	213.9	217.4	214.6	217.4	218.1	218.8
57.5°	179.0	178.4	179.0	182.5	184.6	189.5	195.1	195.1	197.9	195.8	197.9
60°	149.8	149.8	152.6	154.7	160.2	163.7	169.3	172.1	174.9	177.7	176.3
62.5°	121.9	122.6	124.7	129.6	133.1	137.9	144.2	147.0	151.9	154.7	153.3
65°	96.8	96.8	98.2	102.4	105.9	112.2	117.7	124.0	126.8	128.2	128.9
67.5°	72.5	71.8	74.5	77.3	80.8	87.1	93.4	96.8	101.7	103.1	102.4
70°	48.8	49.5	50.9	53.6	57.8	62.7	69.7	72.5	75.2	76.6	75.2
72.5°	30.7	30.7	31.4	34.1	36.9	40.4	45.3	48.1	51.6	52.3	50.9
75°	13.9	13.9	15.3	16.7	18.8	21.6	25.1	27.2	29.3	31.4	31.4
77.5°	2.8	3.5	4.2	4.2	5.6	7.7	9.8	11.8	13.9	13.9	13.9
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	3.5	3.5	3.5
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°	472.3	472.3	472.3	472.3	472.3	472.3	472.3	472.3
2.5°	472.3	476.5	472.3	470.3	473.0	472.3	470.3	471.0
5°	470.3	471.7	473.0	467.5	471.0	471.7	470.3	468.9
7.5°	468.2	468.9	468.2	466.8	466.8	466.8	468.2	468.2
10°	467.5	465.4	461.9	459.8	461.9	461.9	461.2	466.8
12.5°	458.4	461.2	459.1	454.9	459.1	458.4	458.4	459.8
15°	451.4	451.4	452.8	447.3	450.1	449.4	449.4	450.8
17.5°	444.5	444.5	443.8	442.4	441.7	443.8	441.7	445.2
20°	434.7	436.1	440.3	433.3	435.4	433.3	433.3	429.2
22.5°	422.9	429.9	426.4	425.7	425.0	425.7	427.1	422.2
25°	415.2	415.2	416.6	412.4	412.4	413.8	413.1	411.7
27.5°	404.8	404.1	403.4	402.0	405.5	402.7	402.7	402.7
30°	390.1	392.2	391.5	388.1	392.2	390.8	388.7	384.6
32.5°	377.6	380.4	376.2	375.5	374.8	375.5	376.2	372.7
35°	362.3	363.0	363.0	360.2	360.9	360.2	358.8	359.5
37.5°	348.3	347.6	344.2	342.8	343.5	343.5	344.2	342.8
40°	328.8	330.9	330.9	326.0	327.4	326.0	326.0	325.4
42.5°	312.8	313.5	311.4	309.3	309.3	308.6	307.2	308.6
45°	296.1	295.4	293.3	291.2	291.2	290.5	289.1	291.9
47.5°	277.3	275.9	275.2	272.4	272.4	268.2	268.9	271.7
50°	258.5	257.1	254.3	252.9	250.8	248.7	248.0	248.0
52.5°	236.2	236.2	233.4	230.6	229.9	228.5	227.1	227.8
55°	216.7	216.7	214.6	209.7	206.9	203.4	201.3	200.6
57.5°	194.4	193.0	188.8	183.2	180.4	177.7	175.6	175.6
60°	172.1	168.6	164.4	159.5	154.7	149.8	148.4	147.7
62.5°	147.7	144.2	136.5	131.0	127.5	124.7	121.9	124.0
65°	123.3	118.4	111.5	105.9	102.4	98.2	96.1	96.1
67.5°	97.5	92.7	85.7	80.1	76.6	73.8	71.1	71.1
70°	71.8	68.3	62.0	57.1	54.3	50.2	49.5	49.5
72.5°	48.8	44.6	39.7	36.2	33.4	30.7	29.3	28.6
75°	27.2	24.4	20.9	18.8	16.0	14.6	13.2	13.2
77.5°	11.1	9.1	7.0	5.6	4.2	3.5	2.8	3.5
80°	2.1	1.4	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



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









(END OF REPORT)