

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: P209418

Luminaire Tested: **LDSQ6B10D010 EU6B10209730 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209418
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: LDSQ6B10D010 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-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W DL3-11.1 W DLE-11.39 W
Light Source: HIGH LUMEN LED 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 861.6 lumens
Efficiency: N/A
Efficacy: 85.7 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

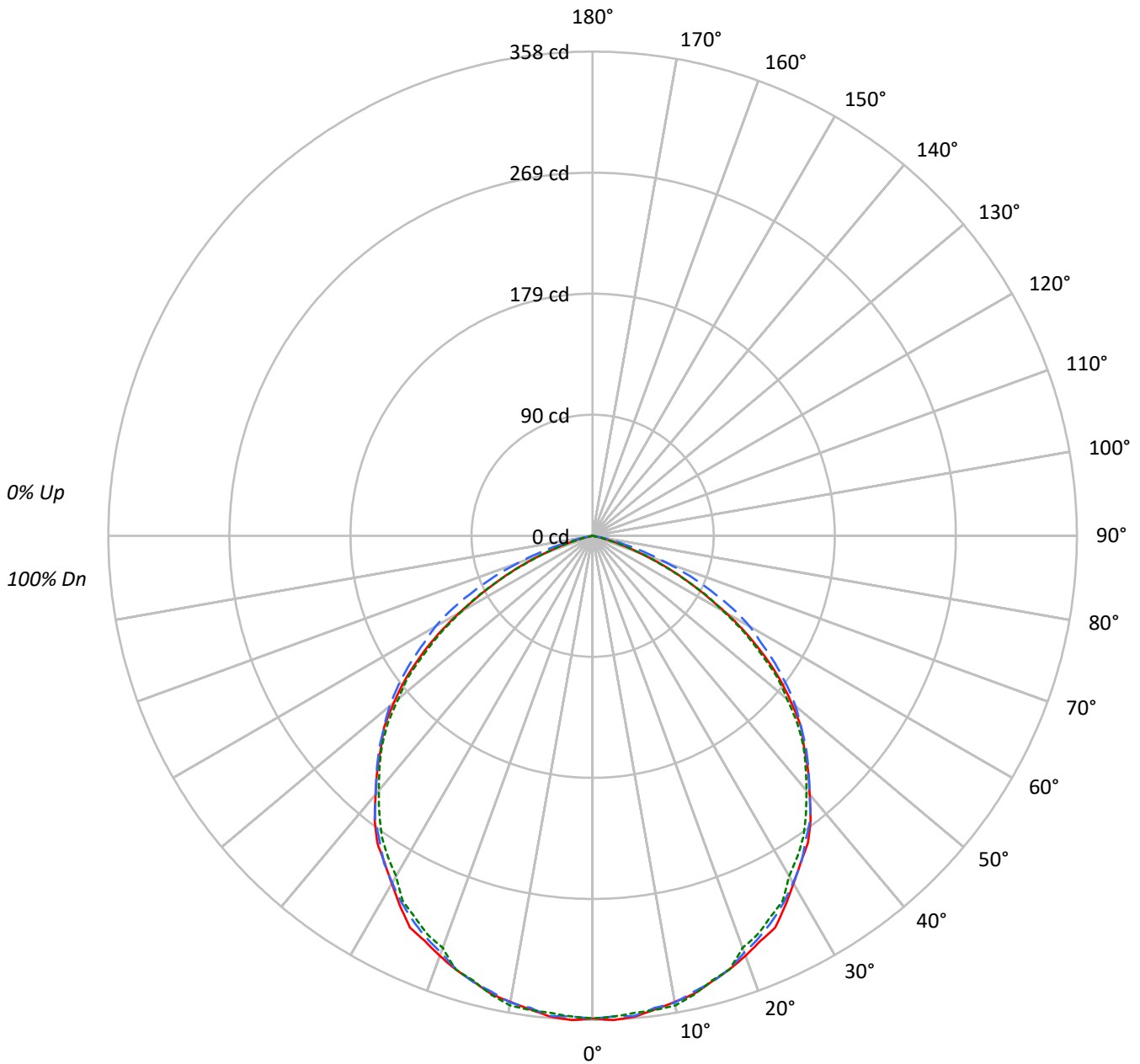
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	33.7	3.9
10°-20°	96.2	11.2
20°-30°	144.8	16.8
30°-40°	171.3	19.9
40°-50°	171.0	19.8
50°-60°	141.8	16.5
60°-70°	82.8	9.6
70°-80°	19.7	2.3
80°-90°	0.1	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°	274.8	31.9
0°-40°	446.1	51.8
0°-60°	758.9	88.1
0°-90°	861.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	357	357	357	357	357	
5°	357	355	356	355	354	34
15°	341	341	342	340	340	96
25°	320	316	314	313	311	146
35°	277	275	275	273	272	172
45°	221	221	223	221	220	171
55°	155	161	165	160	152	138
65°	73	82	97	82	73	73
75°	10	15	24	15	10	14
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°	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9
2.5°	358.4	356.3	357.9	354.8	356.9	354.8	355.3	354.2	356.3	355.8	355.3
5°	356.9	357.4	356.3	357.4	355.8	354.2	355.8	354.8	351.6	356.3	355.3
7.5°	353.2	353.7	352.6	354.2	353.2	351.1	355.3	352.1	351.6	352.1	354.2
10°	350.0	351.1	350.5	350.0	350.5	350.5	349.5	347.9	349.5	350.5	350.0
12.5°	346.9	348.4	347.4	346.3	345.3	345.8	346.9	344.2	344.2	345.3	348.4
15°	341.1	342.1	342.6	340.5	340.5	341.1	343.2	339.0	341.1	341.6	342.1
17.5°	336.3	336.9	336.9	335.3	336.3	334.8	336.3	334.2	336.3	335.8	336.9
20°	330.5	331.6	330.5	330.5	329.5	330.0	330.0	330.0	328.4	327.9	329.0
22.5°	324.2	324.2	323.2	324.2	323.2	322.6	325.3	321.1	325.3	321.6	324.8
25°	319.5	316.9	315.3	314.7	316.9	314.7	315.8	314.2	315.3	314.2	314.7
27.5°	308.4	306.9	306.3	306.9	306.9	306.3	308.4	302.6	306.3	305.8	305.8
30°	296.9	296.9	297.9	296.9	297.9	296.3	298.4	293.7	296.9	296.3	296.9
32.5°	286.3	286.9	286.9	287.9	286.3	286.9	286.9	285.3	286.3	286.9	285.8
35°	277.4	274.7	274.7	274.7	274.7	274.7	275.8	274.2	275.8	274.7	274.7
37.5°	264.7	262.1	262.1	261.6	264.2	262.6	265.3	263.2	263.2	264.2	264.2
40°	249.5	250.5	249.0	251.1	250.5	248.4	253.2	250.0	252.1	249.5	251.6
42.5°	235.8	236.3	235.8	235.3	237.4	236.9	239.0	236.9	236.3	236.3	240.0
45°	221.1	221.1	221.1	222.6	221.1	221.6	223.7	222.6	223.7	223.2	226.9
47.5°	209.0	206.3	205.8	209.0	208.4	209.0	209.0	209.5	210.0	209.0	210.5
50°	191.6	190.5	190.5	191.1	191.6	192.6	194.2	195.3	194.2	195.8	196.3
52.5°	174.7	173.7	174.2	176.3	177.4	176.8	179.5	180.0	179.5	180.5	180.5
55°	155.3	154.2	155.8	158.4	160.0	161.6	164.2	162.1	164.2	164.7	165.3
57.5°	135.3	134.7	135.3	137.9	139.5	143.2	147.4	147.4	149.5	147.9	149.5
60°	113.2	113.2	115.3	116.8	121.1	123.7	127.9	130.0	132.1	134.2	133.2
62.5°	92.1	92.6	94.2	97.9	100.5	104.2	109.0	111.1	114.7	116.8	115.8
65°	73.2	73.2	74.2	77.4	80.0	84.7	89.0	93.7	95.8	96.8	97.4
67.5°	54.7	54.2	56.3	58.4	61.1	65.8	70.5	73.2	76.8	77.9	77.4
70°	36.8	37.4	38.4	40.5	43.7	47.4	52.6	54.7	56.8	57.9	56.8
72.5°	23.2	23.2	23.7	25.8	27.9	30.5	34.2	36.3	38.9	39.5	38.4
75°	10.5	10.5	11.6	12.6	14.2	16.3	18.9	20.5	22.1	23.7	23.7
77.5°	2.1	2.6	3.2	3.2	4.2	5.8	7.4	8.9	10.5	10.5	10.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6	2.6	2.6	2.6
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°	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9
2.5°	356.9	360.0	356.9	355.3	357.4	356.9	355.3	355.8
5°	355.3	356.3	357.4	353.2	355.8	356.3	355.3	354.2
7.5°	353.7	354.2	353.7	352.6	352.6	352.6	353.7	353.7
10°	353.2	351.6	349.0	347.4	349.0	349.0	348.4	352.6
12.5°	346.3	348.4	346.9	343.7	346.9	346.3	346.3	347.4
15°	341.1	341.1	342.1	337.9	340.0	339.5	339.5	340.5
17.5°	335.8	335.8	335.3	334.2	333.7	335.3	333.7	336.3
20°	328.4	329.5	332.6	327.4	329.0	327.4	327.4	324.2
22.5°	319.5	324.8	322.1	321.6	321.1	321.6	322.6	319.0
25°	313.7	313.7	314.7	311.6	311.6	312.6	312.1	311.1
27.5°	305.8	305.3	304.7	303.7	306.3	304.2	304.2	304.2
30°	294.7	296.3	295.8	293.2	296.3	295.3	293.7	290.5
32.5°	285.3	287.4	284.2	283.7	283.2	283.7	284.2	281.6
35°	273.7	274.2	274.2	272.1	272.6	272.1	271.1	271.6
37.5°	263.2	262.6	260.0	259.0	259.5	259.5	260.0	259.0
40°	248.4	250.0	250.0	246.3	247.4	246.3	246.3	245.8
42.5°	236.3	236.9	235.3	233.7	233.7	233.2	232.1	233.2
45°	223.7	223.2	221.6	220.0	220.0	219.5	218.4	220.5
47.5°	209.5	208.4	207.9	205.8	205.8	202.6	203.2	205.3
50°	195.3	194.2	192.1	191.1	189.5	187.9	187.4	187.4
52.5°	178.4	178.4	176.3	174.2	173.7	172.6	171.6	172.1
55°	163.7	163.7	162.1	158.4	156.3	153.7	152.1	151.6
57.5°	146.8	145.8	142.6	138.4	136.3	134.2	132.6	132.6
60°	130.0	127.4	124.2	120.5	116.8	113.2	112.1	111.6
62.5°	111.6	109.0	103.2	99.0	96.3	94.2	92.1	93.7
65°	93.2	89.5	84.2	80.0	77.4	74.2	72.6	72.6
67.5°	73.7	70.0	64.7	60.5	57.9	55.8	53.7	53.7
70°	54.2	51.6	46.8	43.2	41.1	37.9	37.4	37.4
72.5°	36.8	33.7	30.0	27.4	25.3	23.2	22.1	21.6
75°	20.5	18.4	15.8	14.2	12.1	11.1	10.0	10.0
77.5°	8.4	6.8	5.3	4.2	3.2	2.6	2.1	2.6
80°	1.6	1.1	0.5	0.5	0.5	0.5	0.5	0.5
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)