

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: P209412

Luminaire Tested: **LDSQ6B10D010 EU6B10209027 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209412
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 EU6B10209027 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 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 948.0 lumens
Efficiency: N/A
Efficacy: 94.3 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

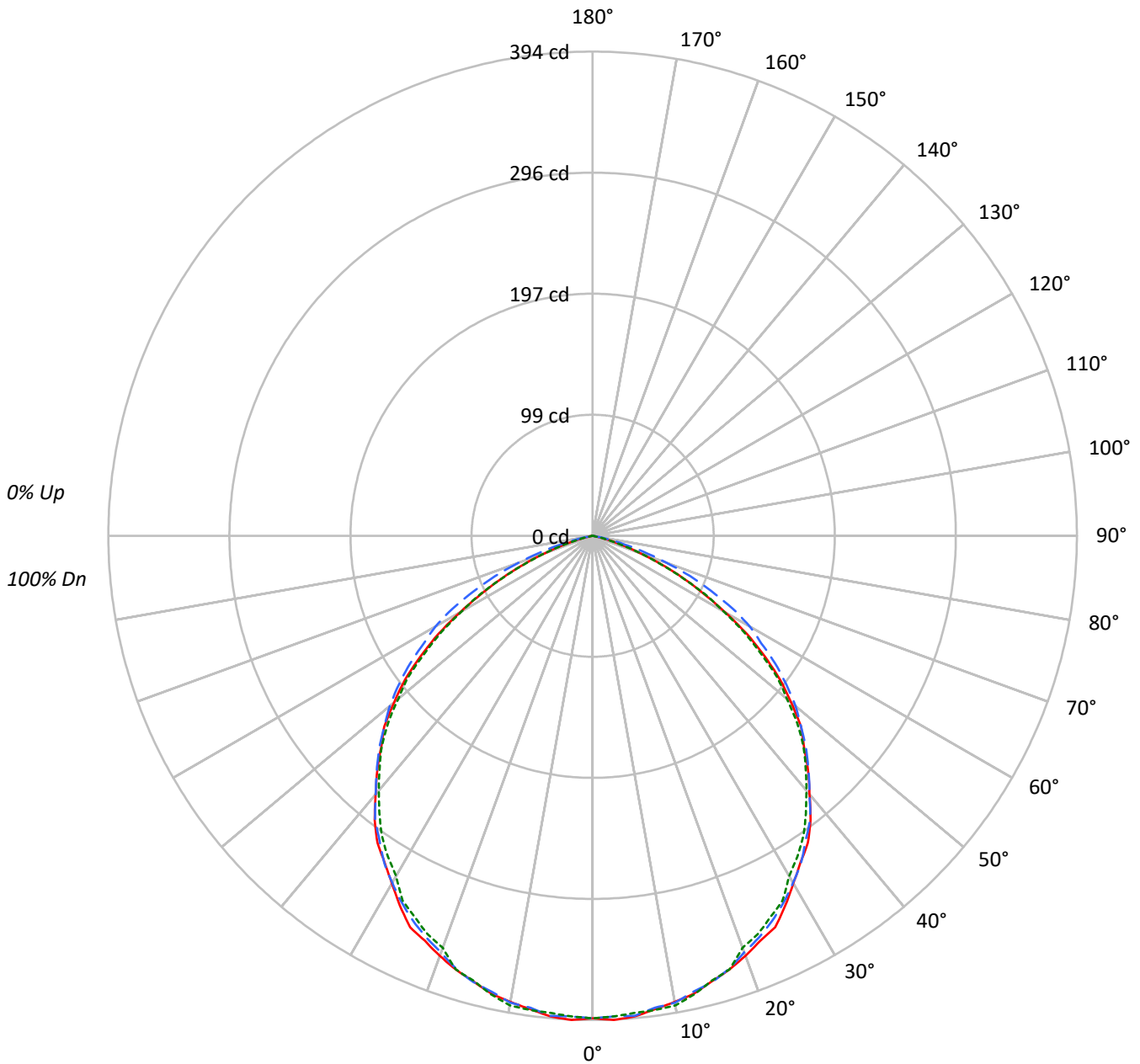
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	37.1	3.9
10°-20°	105.9	11.2
20°-30°	159.3	16.8
30°-40°	188.5	19.9
40°-50°	188.1	19.8
50°-60°	156.0	16.5
60°-70°	91.1	9.6
70°-80°	21.7	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°	302.4	31.9
0°-40°	490.9	51.8
0°-60°	835.0	88.1
0°-90°	948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	393	393	393	393	393	
5°	393	391	392	391	390	37
15°	375	375	376	374	375	106
25°	352	347	346	345	342	161
35°	305	302	302	301	299	190
45°	243	244	246	243	243	188
55°	171	177	181	176	167	152
65°	80	91	107	90	80	80
75°	12	17	26	16	11	16
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°	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6
2.5°	394.4	392.1	393.8	390.3	392.6	390.3	390.9	389.8	392.1	391.5	390.9
5°	392.6	393.2	392.1	393.2	391.5	389.8	391.5	390.3	386.9	392.1	390.9
7.5°	388.6	389.2	388.0	389.8	388.6	386.3	390.9	387.4	386.9	387.4	389.8
10°	385.1	386.3	385.7	385.1	385.7	385.7	384.5	382.8	384.5	385.7	385.1
12.5°	381.6	383.4	382.2	381.1	379.9	380.5	381.6	378.8	378.8	379.9	383.4
15°	375.3	376.4	377.0	374.7	374.7	375.3	377.6	373.0	375.3	375.9	376.4
17.5°	370.1	370.6	370.6	368.9	370.1	368.3	370.1	367.7	370.1	369.5	370.6
20°	363.7	364.9	363.7	363.7	362.5	363.1	363.1	363.1	361.4	360.8	362.0
22.5°	356.7	356.7	355.6	356.7	355.6	355.0	357.9	353.3	357.9	353.8	357.3
25°	351.5	348.6	346.9	346.3	348.6	346.3	347.5	345.7	346.9	345.7	346.3
27.5°	339.4	337.6	337.1	337.6	337.6	337.1	339.4	333.0	337.1	336.5	336.5
30°	326.6	326.6	327.8	326.6	327.8	326.1	328.4	323.2	326.6	326.1	326.6
32.5°	315.0	315.6	315.6	316.8	315.0	315.6	315.6	313.9	315.0	315.6	314.5
35°	305.2	302.3	302.3	302.3	302.3	302.3	303.5	301.7	303.5	302.3	302.3
37.5°	291.3	288.4	288.4	287.8	290.7	289.0	291.9	289.6	289.6	290.7	290.7
40°	274.5	275.7	273.9	276.2	275.7	273.3	278.6	275.1	277.4	274.5	276.8
42.5°	259.5	260.0	259.5	258.9	261.2	260.6	262.9	260.6	260.0	260.0	264.1
45°	243.2	243.2	243.2	245.0	243.2	243.8	246.1	245.0	246.1	245.6	249.6
47.5°	229.9	227.0	226.4	229.9	229.3	229.9	229.9	230.5	231.1	229.9	231.7
50°	210.8	209.6	209.6	210.2	210.8	212.0	213.7	214.9	213.7	215.4	216.0
52.5°	192.3	191.1	191.7	194.0	195.2	194.6	197.5	198.1	197.5	198.6	198.6
55°	170.8	169.7	171.4	174.3	176.1	177.8	180.7	178.4	180.7	181.3	181.8
57.5°	148.8	148.3	148.8	151.7	153.5	157.5	162.2	162.2	164.5	162.7	164.5
60°	124.5	124.5	126.8	128.6	133.2	136.1	140.7	143.0	145.4	147.7	146.5
62.5°	101.3	101.9	103.7	107.7	110.6	114.7	119.9	122.2	126.3	128.6	127.4
65°	80.5	80.5	81.7	85.1	88.0	93.2	97.9	103.1	105.4	106.6	107.1
67.5°	60.2	59.7	62.0	64.3	67.2	72.4	77.6	80.5	84.6	85.7	85.1
70°	40.5	41.1	42.3	44.6	48.1	52.1	57.9	60.2	62.5	63.7	62.5
72.5°	25.5	25.5	26.1	28.4	30.7	33.6	37.6	40.0	42.9	43.4	42.3
75°	11.6	11.6	12.7	13.9	15.6	18.0	20.8	22.6	24.3	26.1	26.1
77.5°	2.3	2.9	3.5	3.5	4.6	6.4	8.1	9.8	11.6	11.6	11.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.7	2.9	2.9	2.9
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°	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6
2.5°	392.6	396.1	392.6	390.9	393.2	392.6	390.9	391.5
5°	390.9	392.1	393.2	388.6	391.5	392.1	390.9	389.8
7.5°	389.2	389.8	389.2	388.0	388.0	388.0	389.2	389.2
10°	388.6	386.9	384.0	382.2	384.0	384.0	383.4	388.0
12.5°	381.1	383.4	381.6	378.2	381.6	381.1	381.1	382.2
15°	375.3	375.3	376.4	371.8	374.1	373.5	373.5	374.7
17.5°	369.5	369.5	368.9	367.7	367.2	368.9	367.2	370.1
20°	361.4	362.5	366.0	360.2	362.0	360.2	360.2	356.7
22.5°	351.5	357.3	354.4	353.8	353.3	353.8	355.0	351.0
25°	345.2	345.2	346.3	342.8	342.8	344.0	343.4	342.3
27.5°	336.5	335.9	335.3	334.2	337.1	334.7	334.7	334.7
30°	324.3	326.1	325.5	322.6	326.1	324.9	323.2	319.7
32.5°	313.9	316.2	312.7	312.2	311.6	312.2	312.7	309.8
35°	301.1	301.7	301.7	299.4	300.0	299.4	298.3	298.8
37.5°	289.6	289.0	286.1	284.9	285.5	285.5	286.1	284.9
40°	273.3	275.1	275.1	271.0	272.2	271.0	271.0	270.5
42.5°	260.0	260.6	258.9	257.1	257.1	256.6	255.4	256.6
45°	246.1	245.6	243.8	242.1	242.1	241.5	240.3	242.7
47.5°	230.5	229.3	228.8	226.4	226.4	223.0	223.5	225.9
50°	214.9	213.7	211.4	210.2	208.5	206.7	206.2	206.2
52.5°	196.3	196.3	194.0	191.7	191.1	190.0	188.8	189.4
55°	180.1	180.1	178.4	174.3	172.0	169.1	167.4	166.8
57.5°	161.6	160.4	156.9	152.3	150.0	147.7	145.9	145.9
60°	143.0	140.1	136.7	132.6	128.6	124.5	123.4	122.8
62.5°	122.8	119.9	113.5	108.9	106.0	103.7	101.3	103.1
65°	102.5	98.5	92.7	88.0	85.1	81.7	79.9	79.9
67.5°	81.1	77.0	71.2	66.6	63.7	61.4	59.1	59.1
70°	59.7	56.8	51.5	47.5	45.2	41.7	41.1	41.1
72.5°	40.5	37.1	33.0	30.1	27.8	25.5	24.3	23.7
75°	22.6	20.3	17.4	15.6	13.3	12.2	11.0	11.0
77.5°	9.3	7.5	5.8	4.6	3.5	2.9	2.3	2.9
80°	1.7	1.2	0.6	0.6	0.6	0.6	0.6	0.6
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)