

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: P209415

Luminaire Tested: **LDSQ6B10D010 EU6B10209040 6LBCSSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P209415  
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 EU6B10209040 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 4000 K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1001.6 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

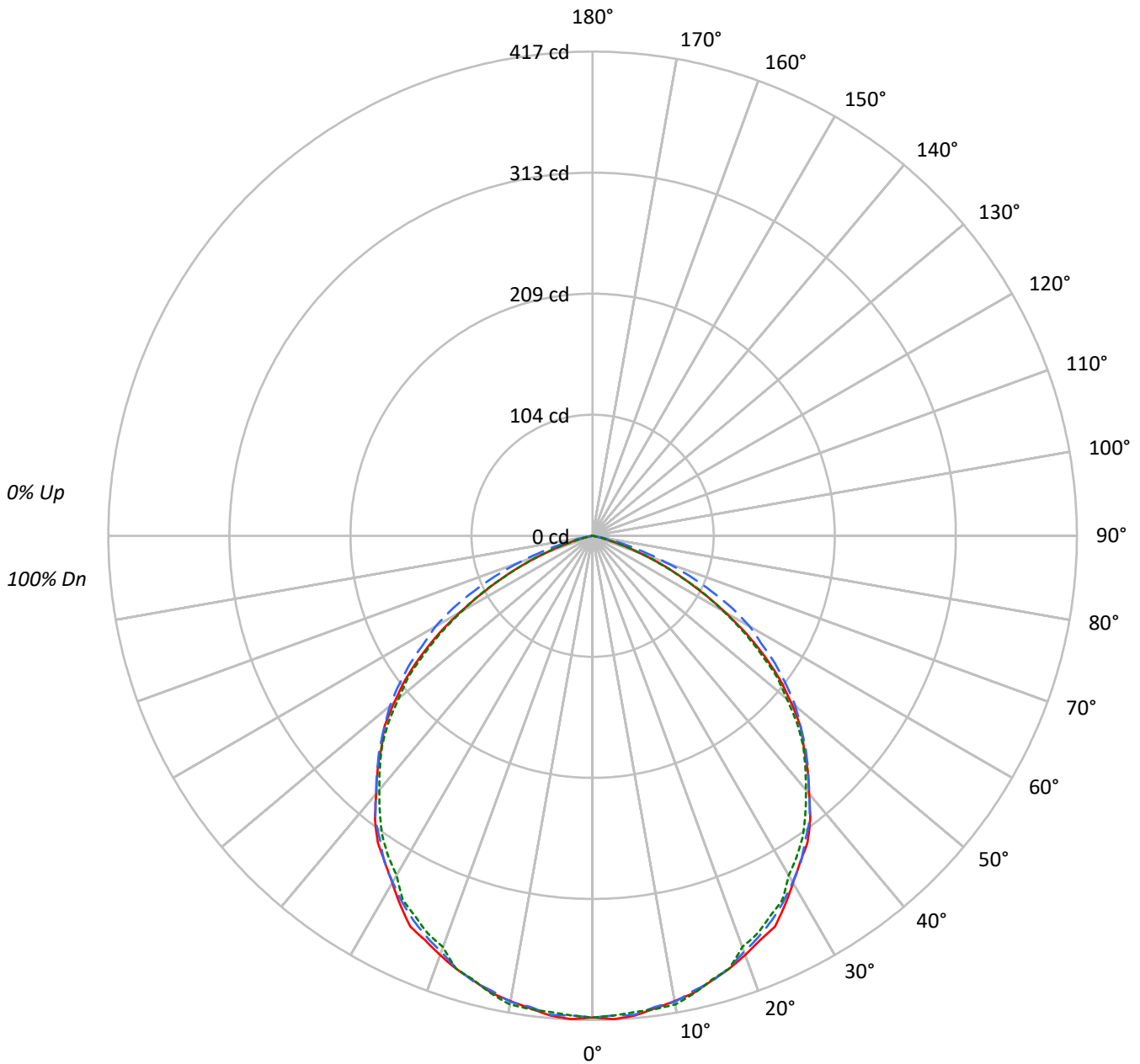
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
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°	39.2	3.9
10°-20°	111.9	11.2
20°-30°	168.4	16.8
30°-40°	199.2	19.9
40°-50°	198.7	19.8
50°-60°	164.8	16.5
60°-70°	96.3	9.6
70°-80°	22.9	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°	319.5	31.9
0°-40°	518.6	51.8
0°-60°	882.2	88.1
0°-90°	1001.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	415	413	414	413	412	39
15°	396	396	397	395	396	112
25°	371	367	365	364	362	170
35°	322	319	319	318	316	200
45°	257	257	259	257	256	199
55°	180	187	192	186	176	160
65°	85	96	113	95	84	85
75°	12	18	28	17	12	17
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°	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8
2.5°	416.7	414.2	416.1	412.4	414.8	412.4	413.0	411.8	414.2	413.6	413.0
5°	414.8	415.5	414.2	415.5	413.6	411.8	413.6	412.4	408.7	414.2	413.0
7.5°	410.6	411.2	409.9	411.8	410.6	408.1	413.0	409.3	408.7	409.3	411.8
10°	406.9	408.1	407.5	406.9	407.5	407.5	406.3	404.4	406.3	407.5	406.9
12.5°	403.2	405.1	403.8	402.6	401.4	402.0	403.2	400.2	400.2	401.4	405.1
15°	396.5	397.7	398.3	395.9	395.9	396.5	398.9	394.0	396.5	397.1	397.7
17.5°	391.0	391.6	391.6	389.8	391.0	389.1	391.0	388.5	391.0	390.4	391.6
20°	384.2	385.5	384.2	384.2	383.0	383.6	383.6	383.6	381.8	381.2	382.4
22.5°	376.9	376.9	375.7	376.9	375.7	375.1	378.1	373.2	378.1	373.8	377.5
25°	371.4	368.3	366.5	365.9	368.3	365.9	367.1	365.3	366.5	365.3	365.9
27.5°	358.6	356.7	356.1	356.7	356.7	356.1	358.6	351.8	356.1	355.5	355.5
30°	345.1	345.1	346.3	345.1	346.3	344.5	346.9	341.4	345.1	344.5	345.1
32.5°	332.9	333.5	333.5	334.7	332.9	333.5	333.5	331.6	332.9	333.5	332.2
35°	322.5	319.4	319.4	319.4	319.4	319.4	320.6	318.8	320.6	319.4	319.4
37.5°	307.8	304.7	304.7	304.1	307.2	305.3	308.4	305.9	305.9	307.2	307.2
40°	290.0	291.2	289.4	291.9	291.2	288.8	294.3	290.6	293.1	290.0	292.5
42.5°	274.1	274.7	274.1	273.5	275.9	275.3	277.8	275.3	274.7	274.7	279.0
45°	257.0	257.0	257.0	258.8	257.0	257.6	260.0	258.8	260.0	259.4	263.7
47.5°	242.9	239.8	239.2	242.9	242.3	242.9	242.9	243.5	244.1	242.9	244.7
50°	222.7	221.5	221.5	222.1	222.7	223.9	225.8	227.0	225.8	227.6	228.2
52.5°	203.1	201.9	202.5	205.0	206.2	205.6	208.6	209.3	208.6	209.9	209.9
55°	180.5	179.3	181.1	184.2	186.0	187.8	190.9	188.5	190.9	191.5	192.1
57.5°	157.2	156.6	157.2	160.3	162.1	166.4	171.3	171.3	173.8	171.9	173.8
60°	131.6	131.6	134.0	135.8	140.7	143.8	148.7	151.1	153.6	156.0	154.8
62.5°	107.1	107.7	109.5	113.8	116.9	121.1	126.7	129.1	133.4	135.8	134.6
65°	85.0	85.0	86.3	89.9	93.0	98.5	103.4	108.9	111.4	112.6	113.2
67.5°	63.6	63.0	65.5	67.9	71.0	76.5	82.0	85.0	89.3	90.6	89.9
70°	42.8	43.4	44.7	47.1	50.8	55.1	61.2	63.6	66.1	67.3	66.1
72.5°	26.9	26.9	27.5	30.0	32.4	35.5	39.8	42.2	45.3	45.9	44.7
75°	12.2	12.2	13.5	14.7	16.5	19.0	22.0	23.9	25.7	27.5	27.5
77.5°	2.4	3.1	3.7	3.7	4.9	6.7	8.6	10.4	12.2	12.2	12.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	3.1	3.1	3.1
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°	414.8	414.8	414.8	414.8	414.8	414.8	414.8	414.8
2.5°	414.8	418.5	414.8	413.0	415.5	414.8	413.0	413.6
5°	413.0	414.2	415.5	410.6	413.6	414.2	413.0	411.8
7.5°	411.2	411.8	411.2	409.9	409.9	409.9	411.2	411.2
10°	410.6	408.7	405.7	403.8	405.7	405.7	405.1	409.9
12.5°	402.6	405.1	403.2	399.5	403.2	402.6	402.6	403.8
15°	396.5	396.5	397.7	392.8	395.3	394.7	394.7	395.9
17.5°	390.4	390.4	389.8	388.5	387.9	389.8	387.9	391.0
20°	381.8	383.0	386.7	380.6	382.4	380.6	380.6	376.9
22.5°	371.4	377.5	374.5	373.8	373.2	373.8	375.1	370.8
25°	364.7	364.7	365.9	362.2	362.2	363.4	362.8	361.6
27.5°	355.5	354.9	354.3	353.0	356.1	353.7	353.7	353.7
30°	342.6	344.5	343.9	340.8	344.5	343.3	341.4	337.7
32.5°	331.6	334.1	330.4	329.8	329.2	329.8	330.4	327.3
35°	318.2	318.8	318.8	316.3	316.9	316.3	315.1	315.7
37.5°	305.9	305.3	302.3	301.0	301.6	301.6	302.3	301.0
40°	288.8	290.6	290.6	286.4	287.6	286.4	286.4	285.7
42.5°	274.7	275.3	273.5	271.7	271.7	271.1	269.8	271.1
45°	260.0	259.4	257.6	255.8	255.8	255.1	253.9	256.4
47.5°	243.5	242.3	241.7	239.2	239.2	235.6	236.2	238.6
50°	227.0	225.8	223.3	222.1	220.3	218.4	217.8	217.8
52.5°	207.4	207.4	205.0	202.5	201.9	200.7	199.5	200.1
55°	190.3	190.3	188.5	184.2	181.7	178.7	176.8	176.2
57.5°	170.7	169.5	165.8	160.9	158.5	156.0	154.2	154.2
60°	151.1	148.1	144.4	140.1	135.8	131.6	130.3	129.7
62.5°	129.7	126.7	119.9	115.0	112.0	109.5	107.1	108.9
65°	108.3	104.0	97.9	93.0	89.9	86.3	84.4	84.4
67.5°	85.7	81.4	75.3	70.4	67.3	64.9	62.4	62.4
70°	63.0	60.0	54.5	50.2	47.7	44.1	43.4	43.4
72.5°	42.8	39.2	34.9	31.8	29.4	26.9	25.7	25.1
75°	23.9	21.4	18.4	16.5	14.1	12.8	11.6	11.6
77.5°	9.8	8.0	6.1	4.9	3.7	3.1	2.4	3.1
80°	1.8	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



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









(END OF REPORT)