

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: P209408

Luminaire Tested: **LDSQ6B10D010 EU6B10208035 6LBCSSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P209408  
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 EU6B10208035 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 3500 K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1183.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

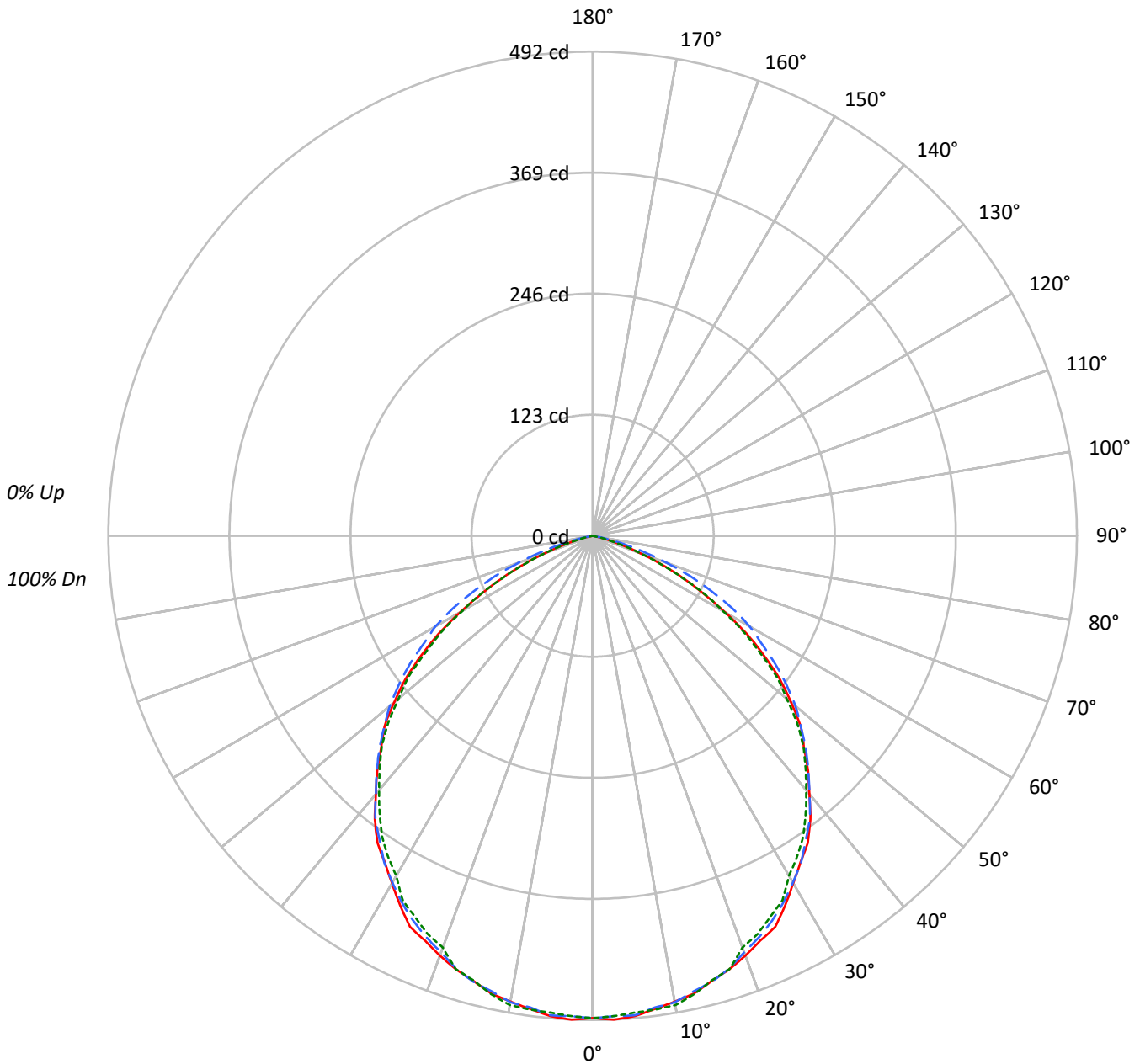
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	46.3	3.9
10°-20°	132.2	11.2
20°-30°	198.9	16.8
30°-40°	235.2	19.9
40°-50°	234.8	19.8
50°-60°	194.7	16.5
60°-70°	113.7	9.6
70°-80°	27.1	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°	377.3	31.9
0°-40°	612.6	51.8
0°-60°	1042.0	88.1
0°-90°	1183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	490	488	489	488	486	46
15°	468	468	469	467	468	132
25°	439	434	432	430	427	201
35°	381	377	377	375	373	237
45°	304	304	306	303	303	235
55°	213	221	226	220	208	189
65°	100	113	133	113	100	100
75°	14	21	32	21	14	20
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°	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0
2.5°	492.2	489.3	491.5	487.1	490.0	487.1	487.8	486.4	489.3	488.6	487.8
5°	490.0	490.7	489.3	490.7	488.6	486.4	488.6	487.1	482.8	489.3	487.8
7.5°	484.9	485.7	484.2	486.4	484.9	482.1	487.8	483.5	482.8	483.5	486.4
10°	480.6	482.1	481.3	480.6	481.3	481.3	479.9	477.7	479.9	481.3	480.6
12.5°	476.3	478.4	477.0	475.6	474.1	474.8	476.3	472.7	472.7	474.1	478.4
15°	468.3	469.8	470.5	467.6	467.6	468.3	471.2	465.4	468.3	469.0	469.8
17.5°	461.8	462.5	462.5	460.4	461.8	459.7	461.8	458.9	461.8	461.1	462.5
20°	453.9	455.3	453.9	453.9	452.4	453.1	453.1	453.1	451.0	450.3	451.7
22.5°	445.2	445.2	443.8	445.2	443.8	443.0	446.6	440.9	446.6	441.6	445.9
25°	438.7	435.1	432.9	432.2	435.1	432.2	433.6	431.5	432.9	431.5	432.2
27.5°	423.5	421.3	420.6	421.3	421.3	420.6	423.5	415.6	420.6	419.9	419.9
30°	407.6	407.6	409.1	407.6	409.1	406.9	409.8	403.3	407.6	406.9	407.6
32.5°	393.2	393.9	393.9	395.3	393.2	393.9	393.9	391.7	393.2	393.9	392.4
35°	380.9	377.3	377.3	377.3	377.3	377.3	378.7	376.5	378.7	377.3	377.3
37.5°	363.5	359.9	359.9	359.2	362.8	360.6	364.3	361.4	361.4	362.8	362.8
40°	342.6	344.0	341.8	344.7	344.0	341.1	347.6	343.3	346.2	342.6	345.5
42.5°	323.8	324.5	323.8	323.1	325.9	325.2	328.1	325.2	324.5	324.5	329.6
45°	303.5	303.5	303.5	305.7	303.5	304.3	307.2	305.7	307.2	306.4	311.5
47.5°	286.9	283.3	282.6	286.9	286.2	286.9	286.9	287.6	288.4	286.9	289.1
50°	263.1	261.6	261.6	262.3	263.1	264.5	266.7	268.1	266.7	268.9	269.6
52.5°	239.9	238.5	239.2	242.1	243.6	242.8	246.4	247.2	246.4	247.9	247.9
55°	213.2	211.8	213.9	217.5	219.7	221.9	225.5	222.6	225.5	226.2	226.9
57.5°	185.7	185.0	185.7	189.4	191.5	196.6	202.4	202.4	205.3	203.1	205.3
60°	155.4	155.4	158.3	160.4	166.2	169.8	175.6	178.5	181.4	184.3	182.8
62.5°	126.5	127.2	129.4	134.4	138.0	143.1	149.6	152.5	157.6	160.4	159.0
65°	100.5	100.5	101.9	106.2	109.9	116.4	122.1	128.6	131.5	133.0	133.7
67.5°	75.2	74.4	77.3	80.2	83.8	90.3	96.8	100.5	105.5	107.0	106.2
70°	50.6	51.3	52.8	55.6	60.0	65.0	72.3	75.2	78.1	79.5	78.1
72.5°	31.8	31.8	32.5	35.4	38.3	41.9	47.0	49.9	53.5	54.2	52.8
75°	14.5	14.5	15.9	17.3	19.5	22.4	26.0	28.2	30.4	32.5	32.5
77.5°	2.9	3.6	4.3	4.3	5.8	7.9	10.1	12.3	14.5	14.5	14.5
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.2	3.6	3.6	3.6
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°	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0
2.5°	490.0	494.3	490.0	487.8	490.7	490.0	487.8	488.6
5°	487.8	489.3	490.7	484.9	488.6	489.3	487.8	486.4
7.5°	485.7	486.4	485.7	484.2	484.2	484.2	485.7	485.7
10°	484.9	482.8	479.2	477.0	479.2	479.2	478.4	484.2
12.5°	475.6	478.4	476.3	471.9	476.3	475.6	475.6	477.0
15°	468.3	468.3	469.8	464.0	466.9	466.2	466.2	467.6
17.5°	461.1	461.1	460.4	458.9	458.2	460.4	458.2	461.8
20°	451.0	452.4	456.8	449.5	451.7	449.5	449.5	445.2
22.5°	438.7	445.9	442.3	441.6	440.9	441.6	443.0	438.0
25°	430.7	430.7	432.2	427.9	427.9	429.3	428.6	427.1
27.5°	419.9	419.2	418.5	417.0	420.6	417.7	417.7	417.7
30°	404.7	406.9	406.2	402.6	406.9	405.4	403.3	398.9
32.5°	391.7	394.6	390.3	389.5	388.8	389.5	390.3	386.7
35°	375.8	376.5	376.5	373.6	374.4	373.6	372.2	372.9
37.5°	361.4	360.6	357.0	355.6	356.3	356.3	357.0	355.6
40°	341.1	343.3	343.3	338.2	339.7	338.2	338.2	337.5
42.5°	324.5	325.2	323.1	320.9	320.9	320.2	318.7	320.2
45°	307.2	306.4	304.3	302.1	302.1	301.4	299.9	302.8
47.5°	287.6	286.2	285.5	282.6	282.6	278.2	279.0	281.9
50°	268.1	266.7	263.8	262.3	260.2	258.0	257.3	257.3
52.5°	245.0	245.0	242.1	239.2	238.5	237.1	235.6	236.3
55°	224.8	224.8	222.6	217.5	214.6	211.0	208.9	208.1
57.5°	201.6	200.2	195.9	190.1	187.2	184.3	182.1	182.1
60°	178.5	174.9	170.6	165.5	160.4	155.4	153.9	153.2
62.5°	153.2	149.6	141.7	135.9	132.3	129.4	126.5	128.6
65°	127.9	122.9	115.6	109.9	106.2	101.9	99.7	99.7
67.5°	101.2	96.1	88.9	83.1	79.5	76.6	73.7	73.7
70°	74.4	70.8	64.3	59.3	56.4	52.0	51.3	51.3
72.5°	50.6	46.3	41.2	37.6	34.7	31.8	30.4	29.6
75°	28.2	25.3	21.7	19.5	16.6	15.2	13.7	13.7
77.5°	11.6	9.4	7.2	5.8	4.3	3.6	2.9	3.6
80°	2.2	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)