

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: P209417

Luminaire Tested: **LDSQ6B10D010 EU6B10209727 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209417
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 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-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: 824.4 lumens
Efficiency: N/A
Efficacy: 82.0 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

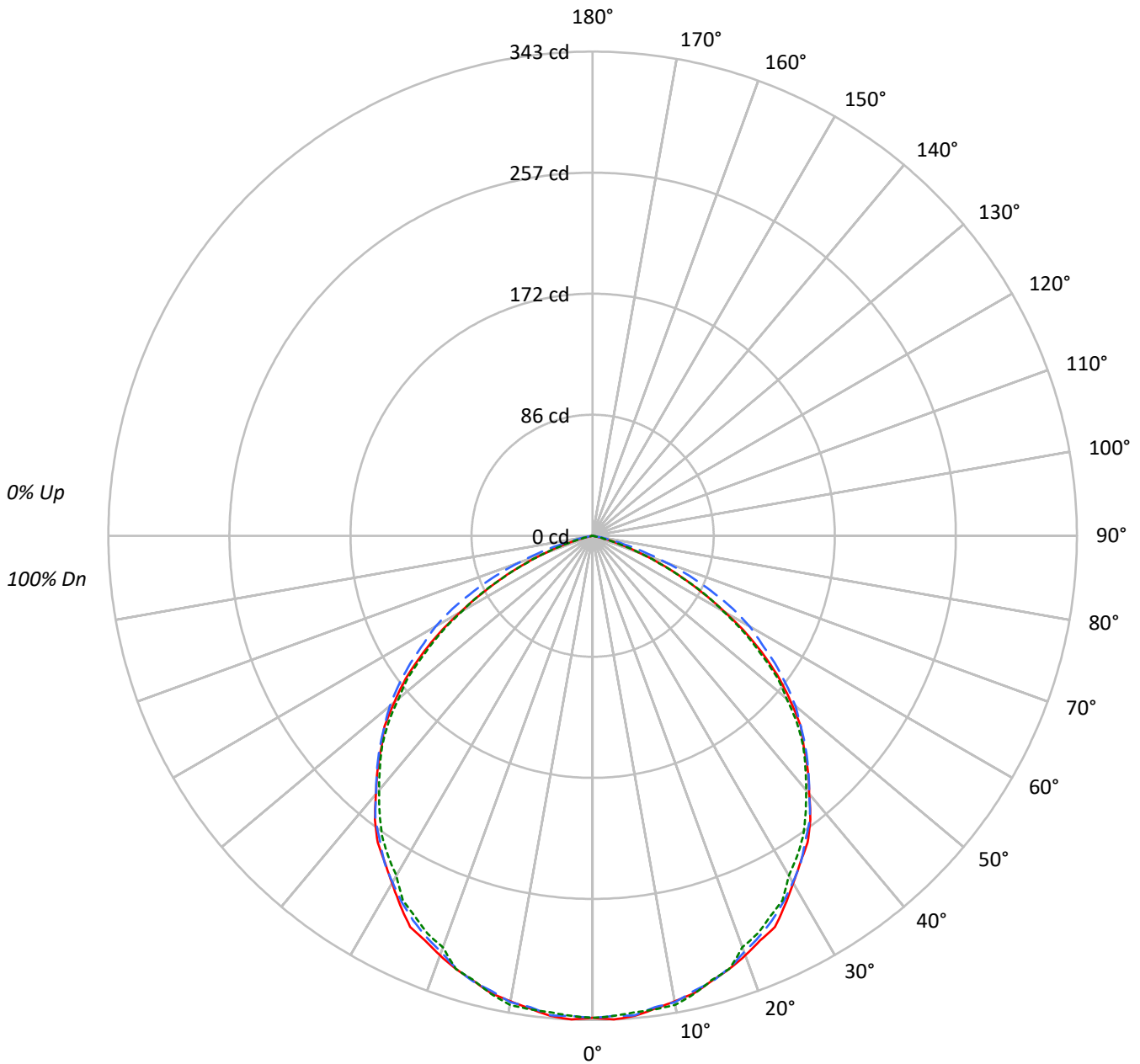
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32.3	3.9
10°-20°	92.1	11.2
20°-30°	138.6	16.8
30°-40°	163.9	19.9
40°-50°	163.6	19.8
50°-60°	135.6	16.5
60°-70°	79.3	9.6
70°-80°	18.9	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°	263.0	31.9
0°-40°	426.9	51.8
0°-60°	726.1	88.1
0°-90°	824.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	824.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	342	340	341	340	339	32
15°	326	326	327	325	326	92
25°	306	302	301	300	298	140
35°	265	263	263	261	260	165
45°	212	212	214	211	211	164
55°	149	154	158	153	145	132
65°	70	79	93	79	70	70
75°	10	15	23	14	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°	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5
2.5°	343.0	341.0	342.5	339.5	341.5	339.5	340.0	338.9	341.0	340.5	340.0
5°	341.5	342.0	341.0	342.0	340.5	338.9	340.5	339.5	336.4	341.0	340.0
7.5°	337.9	338.4	337.4	338.9	337.9	335.9	340.0	336.9	336.4	336.9	338.9
10°	334.9	335.9	335.4	334.9	335.4	335.4	334.4	332.9	334.4	335.4	334.9
12.5°	331.9	333.4	332.4	331.4	330.4	330.9	331.9	329.4	329.4	330.4	333.4
15°	326.4	327.4	327.9	325.9	325.9	326.4	328.4	324.3	326.4	326.9	327.4
17.5°	321.8	322.3	322.3	320.8	321.8	320.3	321.8	319.8	321.8	321.3	322.3
20°	316.3	317.3	316.3	316.3	315.3	315.8	315.8	315.8	314.3	313.8	314.8
22.5°	310.2	310.2	309.2	310.2	309.2	308.7	311.2	307.2	311.2	307.7	310.7
25°	305.7	303.2	301.7	301.2	303.2	301.2	302.2	300.7	301.7	300.7	301.2
27.5°	295.1	293.6	293.1	293.6	293.6	293.1	295.1	289.6	293.1	292.6	292.6
30°	284.1	284.1	285.1	284.1	285.1	283.5	285.6	281.0	284.1	283.5	284.1
32.5°	274.0	274.5	274.5	275.5	274.0	274.5	274.5	273.0	274.0	274.5	273.5
35°	265.4	262.9	262.9	262.9	262.9	262.9	263.9	262.4	263.9	262.9	262.9
37.5°	253.3	250.8	250.8	250.3	252.8	251.3	253.8	251.8	251.8	252.8	252.8
40°	238.7	239.7	238.2	240.2	239.7	237.7	242.2	239.2	241.2	238.7	240.7
42.5°	225.6	226.1	225.6	225.1	227.1	226.6	228.7	226.6	226.1	226.1	229.7
45°	211.5	211.5	211.5	213.0	211.5	212.0	214.0	213.0	214.0	213.5	217.1
47.5°	199.9	197.4	196.9	199.9	199.4	199.9	199.9	200.4	201.0	199.9	201.5
50°	183.3	182.3	182.3	182.8	183.3	184.3	185.8	186.8	185.8	187.4	187.9
52.5°	167.2	166.2	166.7	168.7	169.7	169.2	171.7	172.2	171.7	172.7	172.7
55°	148.6	147.6	149.1	151.6	153.1	154.6	157.1	155.1	157.1	157.6	158.1
57.5°	129.4	128.9	129.4	132.0	133.5	137.0	141.0	141.0	143.0	141.5	143.0
60°	108.3	108.3	110.3	111.8	115.8	118.4	122.4	124.4	126.4	128.4	127.4
62.5°	88.1	88.6	90.2	93.7	96.2	99.7	104.3	106.3	109.8	111.8	110.8
65°	70.0	70.0	71.0	74.0	76.6	81.1	85.1	89.6	91.7	92.7	93.2
67.5°	52.4	51.9	53.9	55.9	58.4	63.0	67.5	70.0	73.5	74.5	74.0
70°	35.3	35.8	36.8	38.8	41.8	45.3	50.4	52.4	54.4	55.4	54.4
72.5°	22.2	22.2	22.7	24.7	26.7	29.2	32.7	34.8	37.3	37.8	36.8
75°	10.1	10.1	11.1	12.1	13.6	15.6	18.1	19.6	21.2	22.7	22.7
77.5°	2.0	2.5	3.0	3.0	4.0	5.5	7.1	8.6	10.1	10.1	10.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.5	2.5	2.5
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°	341.5	341.5	341.5	341.5	341.5	341.5	341.5	341.5
2.5°	341.5	344.5	341.5	340.0	342.0	341.5	340.0	340.5
5°	340.0	341.0	342.0	337.9	340.5	341.0	340.0	338.9
7.5°	338.4	338.9	338.4	337.4	337.4	337.4	338.4	338.4
10°	337.9	336.4	333.9	332.4	333.9	333.9	333.4	337.4
12.5°	331.4	333.4	331.9	328.9	331.9	331.4	331.4	332.4
15°	326.4	326.4	327.4	323.3	325.3	324.8	324.8	325.9
17.5°	321.3	321.3	320.8	319.8	319.3	320.8	319.3	321.8
20°	314.3	315.3	318.3	313.3	314.8	313.3	313.3	310.2
22.5°	305.7	310.7	308.2	307.7	307.2	307.7	308.7	305.2
25°	300.2	300.2	301.2	298.2	298.2	299.2	298.7	297.6
27.5°	292.6	292.1	291.6	290.6	293.1	291.1	291.1	291.1
30°	282.0	283.5	283.0	280.5	283.5	282.5	281.0	278.0
32.5°	273.0	275.0	272.0	271.5	271.0	271.5	272.0	269.4
35°	261.9	262.4	262.4	260.4	260.9	260.4	259.4	259.9
37.5°	251.8	251.3	248.8	247.8	248.3	248.3	248.8	247.8
40°	237.7	239.2	239.2	235.7	236.7	235.7	235.7	235.2
42.5°	226.1	226.6	225.1	223.6	223.6	223.1	222.1	223.1
45°	214.0	213.5	212.0	210.5	210.5	210.0	209.0	211.0
47.5°	200.4	199.4	198.9	196.9	196.9	193.9	194.4	196.4
50°	186.8	185.8	183.8	182.8	181.3	179.8	179.3	179.3
52.5°	170.7	170.7	168.7	166.7	166.2	165.2	164.2	164.7
55°	156.6	156.6	155.1	151.6	149.6	147.1	145.6	145.0
57.5°	140.5	139.5	136.5	132.5	130.4	128.4	126.9	126.9
60°	124.4	121.9	118.9	115.3	111.8	108.3	107.3	106.8
62.5°	106.8	104.3	98.7	94.7	92.2	90.2	88.1	89.6
65°	89.1	85.6	80.6	76.6	74.0	71.0	69.5	69.5
67.5°	70.5	67.0	61.9	57.9	55.4	53.4	51.4	51.4
70°	51.9	49.4	44.8	41.3	39.3	36.3	35.8	35.8
72.5°	35.3	32.2	28.7	26.2	24.2	22.2	21.2	20.6
75°	19.6	17.6	15.1	13.6	11.6	10.6	9.6	9.6
77.5°	8.1	6.5	5.0	4.0	3.0	2.5	2.0	2.5
80°	1.5	1.0	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)