

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: P209416

Luminaire Tested: **LDSQ6B10D010 EU6B10209050 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209416
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 EU6B10209050 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 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1005.9 lumens
Efficiency: N/A
Efficacy: 100.1 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

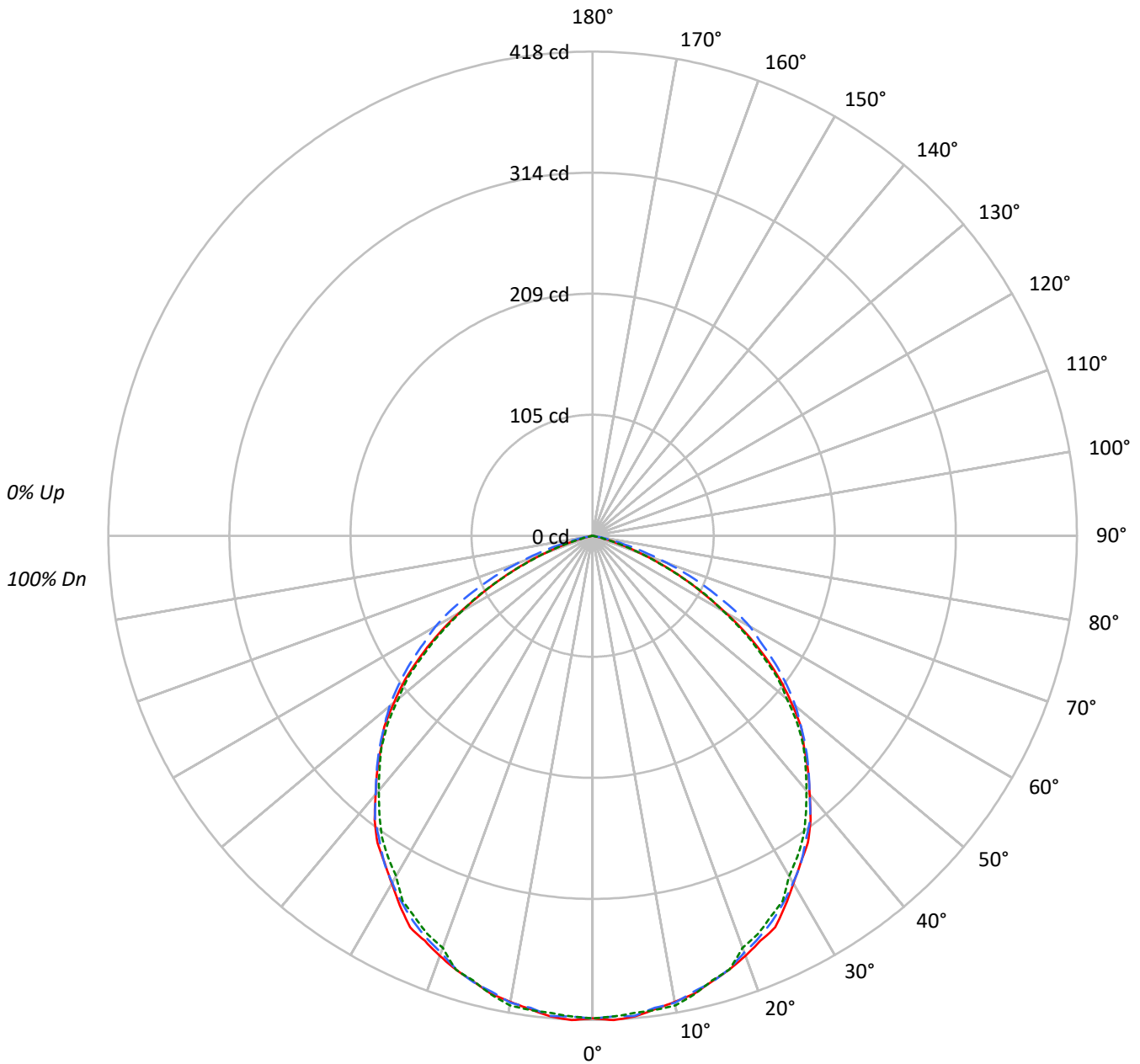
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39.4	3.9
10°-20°	112.4	11.2
20°-30°	169.1	16.8
30°-40°	200.0	19.9
40°-50°	199.6	19.8
50°-60°	165.5	16.5
60°-70°	96.7	9.6
70°-80°	23.0	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°	320.8	31.9
0°-40°	520.9	51.8
0°-60°	886.0	88.1
0°-90°	1005.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1005.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	417	417	417	417	417	
5°	417	414	416	415	414	39
15°	398	398	399	397	398	113
25°	373	369	367	366	363	170
35°	324	321	321	319	317	201
45°	258	258	260	258	258	200
55°	181	188	192	187	177	161
65°	85	96	113	96	85	85
75°	12	18	28	18	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°	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6
2.5°	418.5	416.0	417.9	414.2	416.6	414.2	414.8	413.6	416.0	415.4	414.8
5°	416.6	417.2	416.0	417.2	415.4	413.6	415.4	414.2	410.5	416.0	414.8
7.5°	412.3	412.9	411.7	413.6	412.3	409.9	414.8	411.1	410.5	411.1	413.6
10°	408.6	409.9	409.3	408.6	409.3	409.3	408.0	406.2	408.0	409.3	408.6
12.5°	405.0	406.8	405.6	404.3	403.1	403.7	405.0	401.9	401.9	403.1	406.8
15°	398.2	399.4	400.0	397.6	397.6	398.2	400.7	395.7	398.2	398.8	399.4
17.5°	392.7	393.3	393.3	391.4	392.7	390.8	392.7	390.2	392.7	392.1	393.3
20°	385.9	387.1	385.9	385.9	384.7	385.3	385.3	385.3	383.4	382.8	384.1
22.5°	378.5	378.5	377.3	378.5	377.3	376.7	379.8	374.8	379.8	375.5	379.1
25°	373.0	369.9	368.1	367.5	369.9	367.5	368.7	366.9	368.1	366.9	367.5
27.5°	360.1	358.3	357.6	358.3	358.3	357.6	360.1	353.3	357.6	357.0	357.0
30°	346.6	346.6	347.8	346.6	347.8	346.0	348.4	342.9	346.6	346.0	346.6
32.5°	334.3	334.9	334.9	336.1	334.3	334.9	334.9	333.1	334.3	334.9	333.7
35°	323.8	320.8	320.8	320.8	320.8	320.8	322.0	320.2	322.0	320.8	320.8
37.5°	309.1	306.0	306.0	305.4	308.5	306.6	309.7	307.3	307.3	308.5	308.5
40°	291.3	292.5	290.7	293.1	292.5	290.0	295.6	291.9	294.3	291.3	293.7
42.5°	275.3	275.9	275.3	274.7	277.1	276.5	279.0	276.5	275.9	275.9	280.2
45°	258.1	258.1	258.1	259.9	258.1	258.7	261.2	259.9	261.2	260.5	264.8
47.5°	244.0	240.9	240.3	244.0	243.3	244.0	244.0	244.6	245.2	244.0	245.8
50°	223.7	222.4	222.4	223.1	223.7	224.9	226.8	228.0	226.8	228.6	229.2
52.5°	204.0	202.8	203.4	205.9	207.1	206.5	209.5	210.2	209.5	210.8	210.8
55°	181.3	180.0	181.9	185.0	186.8	188.7	191.7	189.3	191.7	192.3	193.0
57.5°	157.9	157.3	157.9	161.0	162.8	167.1	172.1	172.1	174.5	172.7	174.5
60°	132.1	132.1	134.6	136.4	141.3	144.4	149.3	151.8	154.2	156.7	155.5
62.5°	107.5	108.2	110.0	114.3	117.4	121.7	127.2	129.7	134.0	136.4	135.2
65°	85.4	85.4	86.6	90.3	93.4	98.9	103.9	109.4	111.8	113.1	113.7
67.5°	63.9	63.3	65.8	68.2	71.3	76.8	82.3	85.4	89.7	90.9	90.3
70°	43.0	43.6	44.9	47.3	51.0	55.3	61.5	63.9	66.4	67.6	66.4
72.5°	27.0	27.0	27.7	30.1	32.6	35.6	39.9	42.4	45.5	46.1	44.9
75°	12.3	12.3	13.5	14.7	16.6	19.0	22.1	24.0	25.8	27.7	27.7
77.5°	2.5	3.1	3.7	3.7	4.9	6.8	8.6	10.4	12.3	12.3	12.3
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°	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6
2.5°	416.6	420.3	416.6	414.8	417.2	416.6	414.8	415.4
5°	414.8	416.0	417.2	412.3	415.4	416.0	414.8	413.6
7.5°	412.9	413.6	412.9	411.7	411.7	411.7	412.9	412.9
10°	412.3	410.5	407.4	405.6	407.4	407.4	406.8	411.7
12.5°	404.3	406.8	405.0	401.3	405.0	404.3	404.3	405.6
15°	398.2	398.2	399.4	394.5	397.0	396.4	396.4	397.6
17.5°	392.1	392.1	391.4	390.2	389.6	391.4	389.6	392.7
20°	383.4	384.7	388.4	382.2	384.1	382.2	382.2	378.5
22.5°	373.0	379.1	376.1	375.5	374.8	375.5	376.7	372.4
25°	366.2	366.2	367.5	363.8	363.8	365.0	364.4	363.2
27.5°	357.0	356.4	355.8	354.6	357.6	355.2	355.2	355.2
30°	344.1	346.0	345.3	342.3	346.0	344.7	342.9	339.2
32.5°	333.1	335.5	331.8	331.2	330.6	331.2	331.8	328.8
35°	319.5	320.2	320.2	317.7	318.3	317.7	316.5	317.1
37.5°	307.3	306.6	303.6	302.3	302.9	302.9	303.6	302.3
40°	290.0	291.9	291.9	287.6	288.8	287.6	287.6	287.0
42.5°	275.9	276.5	274.7	272.8	272.8	272.2	271.0	272.2
45°	261.2	260.5	258.7	256.9	256.9	256.2	255.0	257.5
47.5°	244.6	243.3	242.7	240.3	240.3	236.6	237.2	239.7
50°	228.0	226.8	224.3	223.1	221.2	219.4	218.8	218.8
52.5°	208.3	208.3	205.9	203.4	202.8	201.6	200.3	200.9
55°	191.1	191.1	189.3	185.0	182.5	179.4	177.6	177.0
57.5°	171.4	170.2	166.5	161.6	159.2	156.7	154.9	154.9
60°	151.8	148.7	145.0	140.7	136.4	132.1	130.9	130.3
62.5°	130.3	127.2	120.4	115.5	112.5	110.0	107.5	109.4
65°	108.8	104.5	98.3	93.4	90.3	86.6	84.8	84.8
67.5°	86.0	81.7	75.6	70.7	67.6	65.1	62.7	62.7
70°	63.3	60.2	54.7	50.4	47.9	44.2	43.6	43.6
72.5°	43.0	39.3	35.0	32.0	29.5	27.0	25.8	25.2
75°	24.0	21.5	18.4	16.6	14.1	12.9	11.7	11.7
77.5°	9.8	8.0	6.1	4.9	3.7	3.1	2.5	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



Report Generated By E9808895 / USPTCWHP6082093





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









(END OF REPORT)