

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: P209423

Luminaire Tested: **LDSQ6B15D010 EU6B10209024 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209423
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: LDSQ6B15D010 EU6B10209024 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-14.39 W DE010-14.29 W D5LT-14.34 W DMX-14.46 W DL2-15.8 W DL3-15.28 W DLE-15.432 W
Light Source: HIGH LUMEN LED 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1154.3 lumens
Efficiency: N/A
Efficacy: 80.2 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

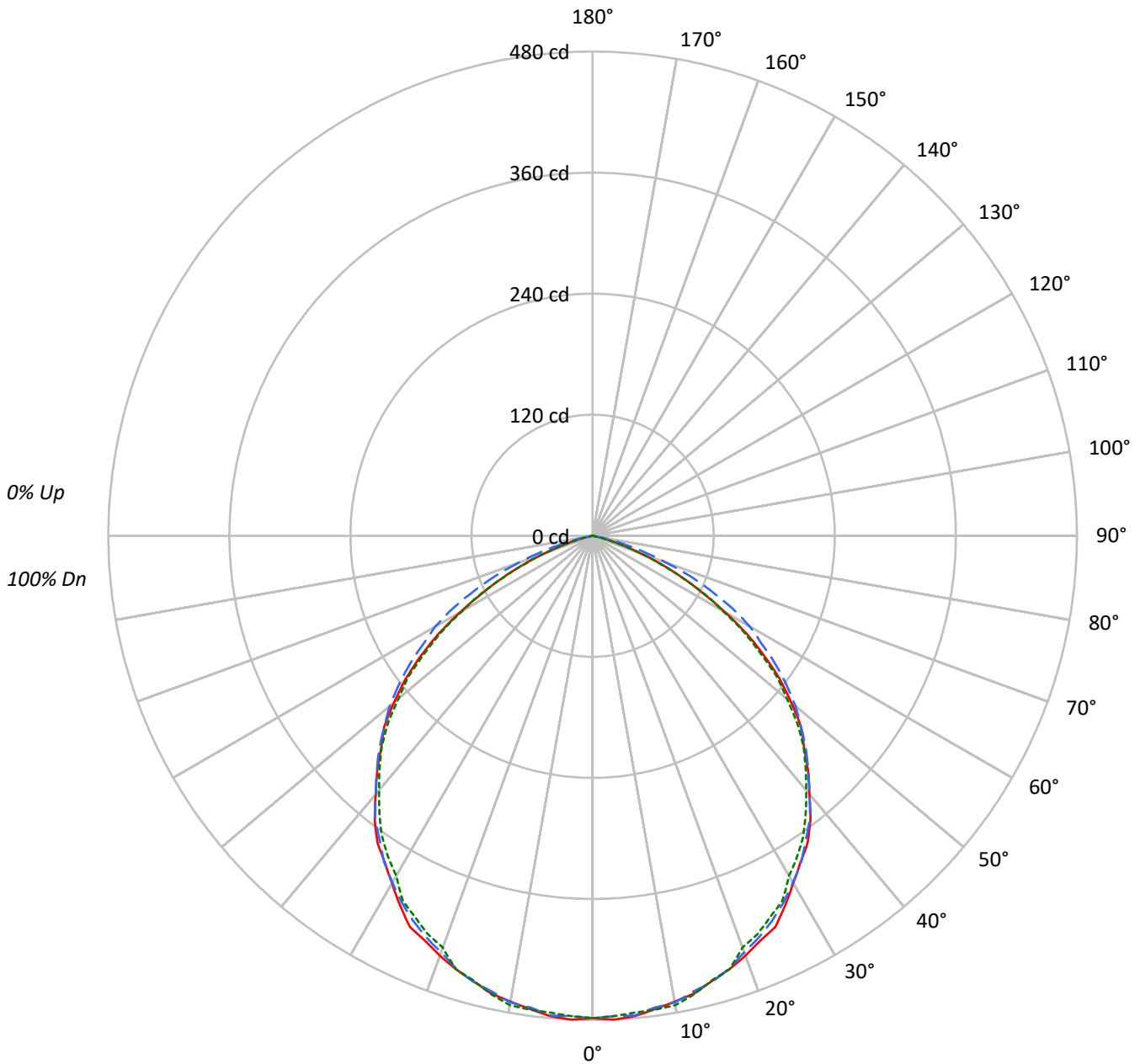
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	45.2	3.9
10°-20°	128.9	11.2
20°-30°	194.0	16.8
30°-40°	229.5	19.9
40°-50°	229.1	19.8
50°-60°	189.9	16.5
60°-70°	111.0	9.6
70°-80°	26.4	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°	368.2	31.9
0°-40°	597.7	51.8
0°-60°	1016.7	88.1
0°-90°	1154.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1154.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	478	476	477	476	475	45
15°	457	457	458	456	456	129
25°	428	423	421	420	417	196
35°	372	368	368	366	364	231
45°	296	297	299	296	296	229
55°	208	215	221	215	203	185
65°	98	110	130	110	97	97
75°	14	20	32	20	13	19
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°	478.1	478.1	478.1	478.1	478.1	478.1	478.1	478.1	478.1	478.1	478.1
2.5°	480.2	477.4	479.5	475.3	478.1	475.3	476.0	474.6	477.4	476.7	476.0
5°	478.1	478.8	477.4	478.8	476.7	474.6	476.7	475.3	471.1	477.4	476.0
7.5°	473.2	473.9	472.5	474.6	473.2	470.4	476.0	471.8	471.1	471.8	474.6
10°	469.0	470.4	469.7	469.0	469.7	469.7	468.3	466.1	468.3	469.7	469.0
12.5°	464.7	466.8	465.4	464.0	462.6	463.3	464.7	461.2	461.2	462.6	466.8
15°	457.0	458.4	459.1	456.3	456.3	457.0	459.8	454.1	457.0	457.7	458.4
17.5°	450.6	451.3	451.3	449.2	450.6	448.5	450.6	447.8	450.6	449.9	451.3
20°	442.9	444.3	442.9	442.9	441.5	442.2	442.2	442.2	440.0	439.3	440.7
22.5°	434.4	434.4	433.0	434.4	433.0	432.3	435.8	430.2	435.8	430.9	435.1
25°	428.1	424.5	422.4	421.7	424.5	421.7	423.1	421.0	422.4	421.0	421.7
27.5°	413.2	411.1	410.4	411.1	411.1	410.4	413.2	405.5	410.4	409.7	409.7
30°	397.7	397.7	399.1	397.7	399.1	397.0	399.8	393.5	397.7	397.0	397.7
32.5°	383.6	384.3	384.3	385.7	383.6	384.3	384.3	382.2	383.6	384.3	382.9
35°	371.6	368.1	368.1	368.1	368.1	368.1	369.5	367.4	369.5	368.1	368.1
37.5°	354.7	351.2	351.2	350.5	354.0	351.9	355.4	352.6	352.6	354.0	354.0
40°	334.3	335.7	333.6	336.4	335.7	332.9	339.2	335.0	337.8	334.3	337.1
42.5°	315.9	316.6	315.9	315.2	318.0	317.3	320.2	317.3	316.6	316.6	321.6
45°	296.2	296.2	296.2	298.3	296.2	296.9	299.7	298.3	299.7	299.0	303.9
47.5°	280.0	276.4	275.7	280.0	279.3	280.0	280.0	280.7	281.4	280.0	282.1
50°	256.7	255.3	255.3	256.0	256.7	258.1	260.2	261.6	260.2	262.3	263.0
52.5°	234.1	232.7	233.4	236.2	237.7	236.9	240.5	241.2	240.5	241.9	241.9
55°	208.0	206.6	208.7	212.3	214.4	216.5	220.0	217.2	220.0	220.7	221.4
57.5°	181.2	180.5	181.2	184.8	186.9	191.8	197.5	197.5	200.3	198.2	200.3
60°	151.6	151.6	154.4	156.6	162.2	165.7	171.4	174.2	177.0	179.8	178.4
62.5°	123.4	124.1	126.2	131.2	134.7	139.6	146.0	148.8	153.7	156.6	155.1
65°	98.0	98.0	99.4	103.7	107.2	113.5	119.2	125.5	128.3	129.8	130.5
67.5°	73.3	72.6	75.5	78.3	81.8	88.1	94.5	98.0	103.0	104.4	103.7
70°	49.4	50.1	51.5	54.3	58.5	63.5	70.5	73.3	76.2	77.6	76.2
72.5°	31.0	31.0	31.7	34.6	37.4	40.9	45.8	48.7	52.2	52.9	51.5
75°	14.1	14.1	15.5	16.9	19.0	21.9	25.4	27.5	29.6	31.7	31.7
77.5°	2.8	3.5	4.2	4.2	5.6	7.8	9.9	12.0	14.1	14.1	14.1
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	3.5	3.5	3.5
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°	478.1	478.1	478.1	478.1	478.1	478.1	478.1	478.1
2.5°	478.1	482.4	478.1	476.0	478.8	478.1	476.0	476.7
5°	476.0	477.4	478.8	473.2	476.7	477.4	476.0	474.6
7.5°	473.9	474.6	473.9	472.5	472.5	472.5	473.9	473.9
10°	473.2	471.1	467.5	465.4	467.5	467.5	466.8	472.5
12.5°	464.0	466.8	464.7	460.5	464.7	464.0	464.0	465.4
15°	457.0	457.0	458.4	452.7	455.6	454.9	454.9	456.3
17.5°	449.9	449.9	449.2	447.8	447.1	449.2	447.1	450.6
20°	440.0	441.5	445.7	438.6	440.7	438.6	438.6	434.4
22.5°	428.1	435.1	431.6	430.9	430.2	430.9	432.3	427.3
25°	420.3	420.3	421.7	417.5	417.5	418.9	418.2	416.8
27.5°	409.7	409.0	408.3	406.9	410.4	407.6	407.6	407.6
30°	394.9	397.0	396.3	392.8	397.0	395.6	393.5	389.3
32.5°	382.2	385.0	380.8	380.1	379.4	380.1	380.8	377.3
35°	366.7	367.4	367.4	364.6	365.3	364.6	363.2	363.9
37.5°	352.6	351.9	348.4	347.0	347.7	347.7	348.4	347.0
40°	332.9	335.0	335.0	330.0	331.4	330.0	330.0	329.3
42.5°	316.6	317.3	315.2	313.1	313.1	312.4	311.0	312.4
45°	299.7	299.0	296.9	294.8	294.8	294.1	292.7	295.5
47.5°	280.7	279.3	278.6	275.7	275.7	271.5	272.2	275.0
50°	261.6	260.2	257.4	256.0	253.9	251.8	251.1	251.1
52.5°	239.1	239.1	236.2	233.4	232.7	231.3	229.9	230.6
55°	219.3	219.3	217.2	212.3	209.4	205.9	203.8	203.1
57.5°	196.7	195.3	191.1	185.5	182.6	179.8	177.7	177.7
60°	174.2	170.7	166.4	161.5	156.6	151.6	150.2	149.5
62.5°	149.5	146.0	138.2	132.6	129.1	126.2	123.4	125.5
65°	124.8	119.9	112.8	107.2	103.7	99.4	97.3	97.3
67.5°	98.7	93.8	86.7	81.1	77.6	74.8	71.9	71.9
70°	72.6	69.1	62.8	57.8	55.0	50.8	50.1	50.1
72.5°	49.4	45.1	40.2	36.7	33.8	31.0	29.6	28.9
75°	27.5	24.7	21.2	19.0	16.2	14.8	13.4	13.4
77.5°	11.3	9.2	7.1	5.6	4.2	3.5	2.8	3.5
80°	2.1	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



Report Generated By E9808895 / USPTCWHP6082093





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









(END OF REPORT)