

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: P209425

Luminaire Tested: **LDSQ6B15D010 EU6B10209030 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209425
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 EU6B10209030 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 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1364.3 lumens
Efficiency: N/A
Efficacy: 94.8 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

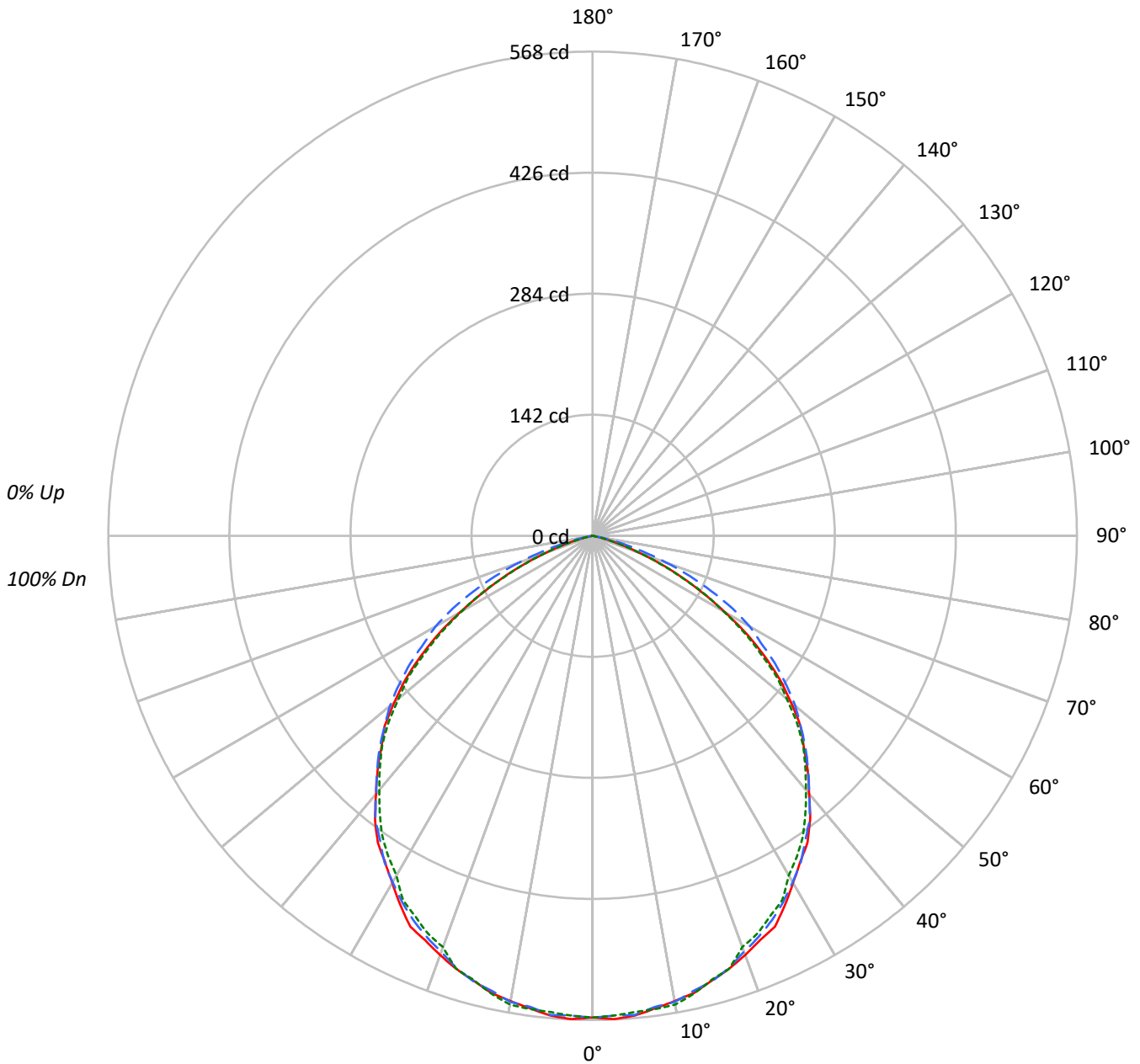
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	53.4	3.9
10°-20°	152.4	11.2
20°-30°	229.3	16.8
30°-40°	271.3	19.9
40°-50°	270.7	19.8
50°-60°	224.5	16.5
60°-70°	131.2	9.6
70°-80°	31.2	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°	435.2	31.9
0°-40°	706.5	51.8
0°-60°	1201.7	88.1
0°-90°	1364.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	565	565	565	565	565	
5°	565	562	564	563	561	54
15°	540	540	541	538	539	153
25°	506	500	498	496	493	231
35°	439	435	435	433	430	273
45°	350	350	353	350	349	271
55°	246	255	261	254	240	218
65°	116	130	153	130	115	115
75°	17	24	38	24	16	23
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°	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1
2.5°	567.6	564.3	566.8	561.8	565.1	561.8	562.6	560.9	564.3	563.4	562.6
5°	565.1	565.9	564.3	565.9	563.4	560.9	563.4	561.8	556.8	564.3	562.6
7.5°	559.3	560.1	558.4	560.9	559.3	555.9	562.6	557.6	556.8	557.6	560.9
10°	554.3	555.9	555.1	554.3	555.1	555.1	553.4	550.9	553.4	555.1	554.3
12.5°	549.3	551.8	550.1	548.4	546.8	547.6	549.3	545.1	545.1	546.8	551.8
15°	540.1	541.8	542.6	539.3	539.3	540.1	543.4	536.8	540.1	540.9	541.8
17.5°	532.6	533.4	533.4	530.9	532.6	530.1	532.6	529.2	532.6	531.7	533.4
20°	523.4	525.1	523.4	523.4	521.7	522.6	522.6	522.6	520.1	519.2	520.9
22.5°	513.4	513.4	511.7	513.4	511.7	510.9	515.1	508.4	515.1	509.2	514.2
25°	505.9	501.7	499.2	498.4	501.7	498.4	500.1	497.6	499.2	497.6	498.4
27.5°	488.4	485.9	485.1	485.9	485.9	485.1	488.4	479.2	485.1	484.2	484.2
30°	470.1	470.1	471.7	470.1	471.7	469.2	472.6	465.1	470.1	469.2	470.1
32.5°	453.4	454.2	454.2	455.9	453.4	454.2	454.2	451.7	453.4	454.2	452.6
35°	439.2	435.1	435.1	435.1	435.1	435.1	436.7	434.2	436.7	435.1	435.1
37.5°	419.2	415.1	415.1	414.2	418.4	415.9	420.1	416.7	416.7	418.4	418.4
40°	395.1	396.7	394.2	397.6	396.7	393.4	400.9	395.9	399.2	395.1	398.4
42.5°	373.4	374.2	373.4	372.6	375.9	375.1	378.4	375.1	374.2	374.2	380.1
45°	350.1	350.1	350.1	352.6	350.1	350.9	354.2	352.6	354.2	353.4	359.2
47.5°	330.9	326.7	325.9	330.9	330.1	330.9	330.9	331.7	332.6	330.9	333.4
50°	303.4	301.7	301.7	302.5	303.4	305.0	307.5	309.2	307.5	310.0	310.9
52.5°	276.7	275.0	275.9	279.2	280.9	280.0	284.2	285.0	284.2	285.9	285.9
55°	245.9	244.2	246.7	250.9	253.4	255.9	260.0	256.7	260.0	260.9	261.7
57.5°	214.2	213.4	214.2	218.4	220.9	226.7	233.4	233.4	236.7	234.2	236.7
60°	179.2	179.2	182.5	185.0	191.7	195.9	202.5	205.9	209.2	212.5	210.9
62.5°	145.9	146.7	149.2	155.0	159.2	165.0	172.5	175.9	181.7	185.0	183.4
65°	115.9	115.9	117.5	122.5	126.7	134.2	140.9	148.4	151.7	153.4	154.2
67.5°	86.7	85.8	89.2	92.5	96.7	104.2	111.7	115.9	121.7	123.4	122.5
70°	58.3	59.2	60.8	64.2	69.2	75.0	83.3	86.7	90.0	91.7	90.0
72.5°	36.7	36.7	37.5	40.8	44.2	48.3	54.2	57.5	61.7	62.5	60.8
75°	16.7	16.7	18.3	20.0	22.5	25.8	30.0	32.5	35.0	37.5	37.5
77.5°	3.3	4.2	5.0	5.0	6.7	9.2	11.7	14.2	16.7	16.7	16.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	1.7	2.5	4.2	4.2	4.2
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°	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1
2.5°	565.1	570.1	565.1	562.6	565.9	565.1	562.6	563.4
5°	562.6	564.3	565.9	559.3	563.4	564.3	562.6	560.9
7.5°	560.1	560.9	560.1	558.4	558.4	558.4	560.1	560.1
10°	559.3	556.8	552.6	550.1	552.6	552.6	551.8	558.4
12.5°	548.4	551.8	549.3	544.3	549.3	548.4	548.4	550.1
15°	540.1	540.1	541.8	535.1	538.4	537.6	537.6	539.3
17.5°	531.7	531.7	530.9	529.2	528.4	530.9	528.4	532.6
20°	520.1	521.7	526.7	518.4	520.9	518.4	518.4	513.4
22.5°	505.9	514.2	510.1	509.2	508.4	509.2	510.9	505.1
25°	496.7	496.7	498.4	493.4	493.4	495.1	494.2	492.6
27.5°	484.2	483.4	482.6	480.9	485.1	481.7	481.7	481.7
30°	466.7	469.2	468.4	464.2	469.2	467.6	465.1	460.1
32.5°	451.7	455.1	450.1	449.2	448.4	449.2	450.1	445.9
35°	433.4	434.2	434.2	430.9	431.7	430.9	429.2	430.1
37.5°	416.7	415.9	411.7	410.1	410.9	410.9	411.7	410.1
40°	393.4	395.9	395.9	390.1	391.7	390.1	390.1	389.2
42.5°	374.2	375.1	372.6	370.1	370.1	369.2	367.6	369.2
45°	354.2	353.4	350.9	348.4	348.4	347.6	345.9	349.2
47.5°	331.7	330.1	329.2	325.9	325.9	320.9	321.7	325.1
50°	309.2	307.5	304.2	302.5	300.0	297.5	296.7	296.7
52.5°	282.5	282.5	279.2	275.9	275.0	273.4	271.7	272.5
55°	259.2	259.2	256.7	250.9	247.5	243.4	240.9	240.0
57.5°	232.5	230.9	225.9	219.2	215.9	212.5	210.0	210.0
60°	205.9	201.7	196.7	190.9	185.0	179.2	177.5	176.7
62.5°	176.7	172.5	163.4	156.7	152.5	149.2	145.9	148.4
65°	147.5	141.7	133.4	126.7	122.5	117.5	115.0	115.0
67.5°	116.7	110.9	102.5	95.8	91.7	88.3	85.0	85.0
70°	85.8	81.7	74.2	68.3	65.0	60.0	59.2	59.2
72.5°	58.3	53.3	47.5	43.3	40.0	36.7	35.0	34.2
75°	32.5	29.2	25.0	22.5	19.2	17.5	15.8	15.8
77.5°	13.3	10.8	8.3	6.7	5.0	4.2	3.3	4.2
80°	2.5	1.7	0.8	0.8	0.8	0.8	0.8	0.8
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)