

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: P209428

Luminaire Tested: **LDSQ6B15D010 EU6B10209050 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209428
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 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-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 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1391.2 lumens
Efficiency: N/A
Efficacy: 96.7 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

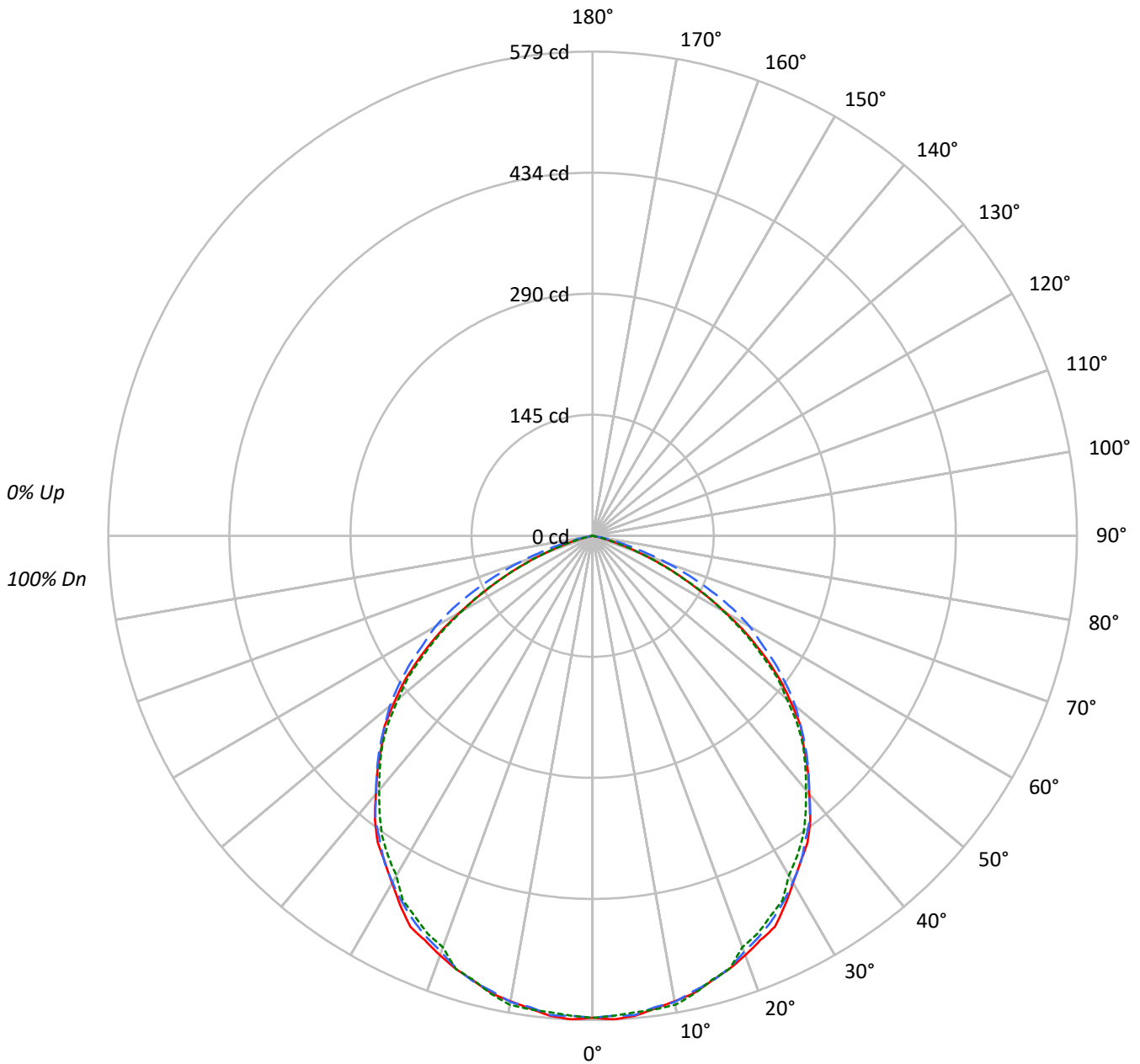
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75				75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56				56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				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°	54.5	3.9
10°-20°	155.4	11.2
20°-30°	233.9	16.8
30°-40°	276.7	19.9
40°-50°	276.1	19.8
50°-60°	228.9	16.5
60°-70°	133.7	9.6
70°-80°	31.8	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°	443.8	31.9
0°-40°	720.4	51.8
0°-60°	1225.5	88.1
0°-90°	1391.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1391.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	576	573	575	574	572	55
15°	551	550	552	549	550	156
25°	516	510	507	506	502	236
35°	448	444	444	441	439	278
45°	357	357	360	357	356	276
55°	251	260	266	259	245	223
65°	118	133	156	133	117	117
75°	17	25	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°	576.3	576.3	576.3	576.3	576.3	576.3	576.3	576.3	576.3	576.3	576.3
2.5°	578.8	575.4	578.0	572.9	576.3	572.9	573.7	572.0	575.4	574.6	573.7
5°	576.3	577.1	575.4	577.1	574.6	572.0	574.6	572.9	567.8	575.4	573.7
7.5°	570.3	571.2	569.5	572.0	570.3	566.9	573.7	568.6	567.8	568.6	572.0
10°	565.2	566.9	566.1	565.2	566.1	566.1	564.4	561.8	564.4	566.1	565.2
12.5°	560.1	562.7	561.0	559.3	557.6	558.4	560.1	555.9	555.9	557.6	562.7
15°	550.8	552.5	553.3	549.9	549.9	550.8	554.2	547.4	550.8	551.6	552.5
17.5°	543.1	544.0	544.0	541.4	543.1	540.6	543.1	539.7	543.1	542.3	544.0
20°	533.8	535.5	533.8	533.8	532.1	532.9	532.9	532.9	530.4	529.5	531.2
22.5°	523.6	523.6	521.9	523.6	521.9	521.0	525.3	518.5	525.3	519.3	524.4
25°	515.9	511.7	509.1	508.3	511.7	508.3	510.0	507.4	509.1	507.4	508.3
27.5°	498.1	495.5	494.7	495.5	495.5	494.7	498.1	488.7	494.7	493.8	493.8
30°	479.4	479.4	481.1	479.4	481.1	478.5	481.9	474.3	479.4	478.5	479.4
32.5°	462.4	463.2	463.2	464.9	462.4	463.2	463.2	460.7	462.4	463.2	461.5
35°	447.9	443.7	443.7	443.7	443.7	443.7	445.4	442.8	445.4	443.7	443.7
37.5°	427.5	423.3	423.3	422.4	426.7	424.1	428.4	425.0	425.0	426.7	426.7
40°	402.9	404.6	402.0	405.4	404.6	401.2	408.8	403.7	407.1	402.9	406.3
42.5°	380.8	381.6	380.8	379.9	383.3	382.5	385.9	382.5	381.6	381.6	387.6
45°	357.0	357.0	357.0	359.5	357.0	357.8	361.2	359.5	361.2	360.4	366.3
47.5°	337.4	333.2	332.3	337.4	336.6	337.4	337.4	338.3	339.1	337.4	340.0
50°	309.4	307.7	307.7	308.5	309.4	311.1	313.6	315.3	313.6	316.2	317.0
52.5°	282.2	280.5	281.3	284.7	286.4	285.6	289.8	290.7	289.8	291.5	291.5
55°	250.7	249.0	251.6	255.8	258.4	260.9	265.2	261.8	265.2	266.0	266.9
57.5°	218.4	217.6	218.4	222.7	225.2	231.2	238.0	238.0	241.4	238.8	241.4
60°	182.7	182.7	186.1	188.7	195.5	199.7	206.5	209.9	213.3	216.7	215.0
62.5°	148.7	149.6	152.1	158.1	162.3	168.3	175.9	179.3	185.3	188.7	187.0
65°	118.1	118.1	119.8	124.9	129.2	136.8	143.6	151.3	154.7	156.4	157.2
67.5°	88.4	87.5	90.9	94.3	98.6	106.2	113.9	118.1	124.1	125.8	124.9
70°	59.5	60.3	62.0	65.4	70.5	76.5	85.0	88.4	91.8	93.5	91.8
72.5°	37.4	37.4	38.2	41.6	45.0	49.3	55.2	58.6	62.9	63.7	62.0
75°	17.0	17.0	18.7	20.4	22.9	26.3	30.6	33.1	35.7	38.2	38.2
77.5°	3.4	4.2	5.1	5.1	6.8	9.3	11.9	14.4	17.0	17.0	17.0
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°	576.3	576.3	576.3	576.3	576.3	576.3	576.3	576.3
2.5°	576.3	581.4	576.3	573.7	577.1	576.3	573.7	574.6
5°	573.7	575.4	577.1	570.3	574.6	575.4	573.7	572.0
7.5°	571.2	572.0	571.2	569.5	569.5	569.5	571.2	571.2
10°	570.3	567.8	563.5	561.0	563.5	563.5	562.7	569.5
12.5°	559.3	562.7	560.1	555.0	560.1	559.3	559.3	561.0
15°	550.8	550.8	552.5	545.7	549.1	548.2	548.2	549.9
17.5°	542.3	542.3	541.4	539.7	538.9	541.4	538.9	543.1
20°	530.4	532.1	537.2	528.7	531.2	528.7	528.7	523.6
22.5°	515.9	524.4	520.2	519.3	518.5	519.3	521.0	515.1
25°	506.6	506.6	508.3	503.2	503.2	504.9	504.0	502.3
27.5°	493.8	493.0	492.1	490.4	494.7	491.3	491.3	491.3
30°	476.0	478.5	477.7	473.4	478.5	476.8	474.3	469.2
32.5°	460.7	464.1	459.0	458.1	457.3	458.1	459.0	454.7
35°	442.0	442.8	442.8	439.4	440.3	439.4	437.7	438.6
37.5°	425.0	424.1	419.9	418.2	419.0	419.0	419.9	418.2
40°	401.2	403.7	403.7	397.8	399.5	397.8	397.8	396.9
42.5°	381.6	382.5	379.9	377.4	377.4	376.5	374.8	376.5
45°	361.2	360.4	357.8	355.3	355.3	354.4	352.7	356.1
47.5°	338.3	336.6	335.7	332.3	332.3	327.2	328.1	331.5
50°	315.3	313.6	310.2	308.5	306.0	303.4	302.6	302.6
52.5°	288.1	288.1	284.7	281.3	280.5	278.8	277.1	277.9
55°	264.3	264.3	261.8	255.8	252.4	248.2	245.6	244.8
57.5°	237.1	235.4	230.3	223.5	220.1	216.7	214.2	214.2
60°	209.9	205.7	200.6	194.6	188.7	182.7	181.0	180.2
62.5°	180.2	175.9	166.6	159.8	155.5	152.1	148.7	151.3
65°	150.4	144.5	136.0	129.2	124.9	119.8	117.3	117.3
67.5°	119.0	113.0	104.5	97.7	93.5	90.1	86.7	86.7
70°	87.5	83.3	75.6	69.7	66.3	61.2	60.3	60.3
72.5°	59.5	54.4	48.4	44.2	40.8	37.4	35.7	34.8
75°	33.1	29.7	25.5	22.9	19.5	17.8	16.1	16.1
77.5°	13.6	11.0	8.5	6.8	5.1	4.2	3.4	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)