

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: P209427

Luminaire Tested: **LDSQ6B15D010 EU6B10209040 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209427
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 EU6B10209040 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 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1386.1 lumens
Efficiency: N/A
Efficacy: 96.3 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

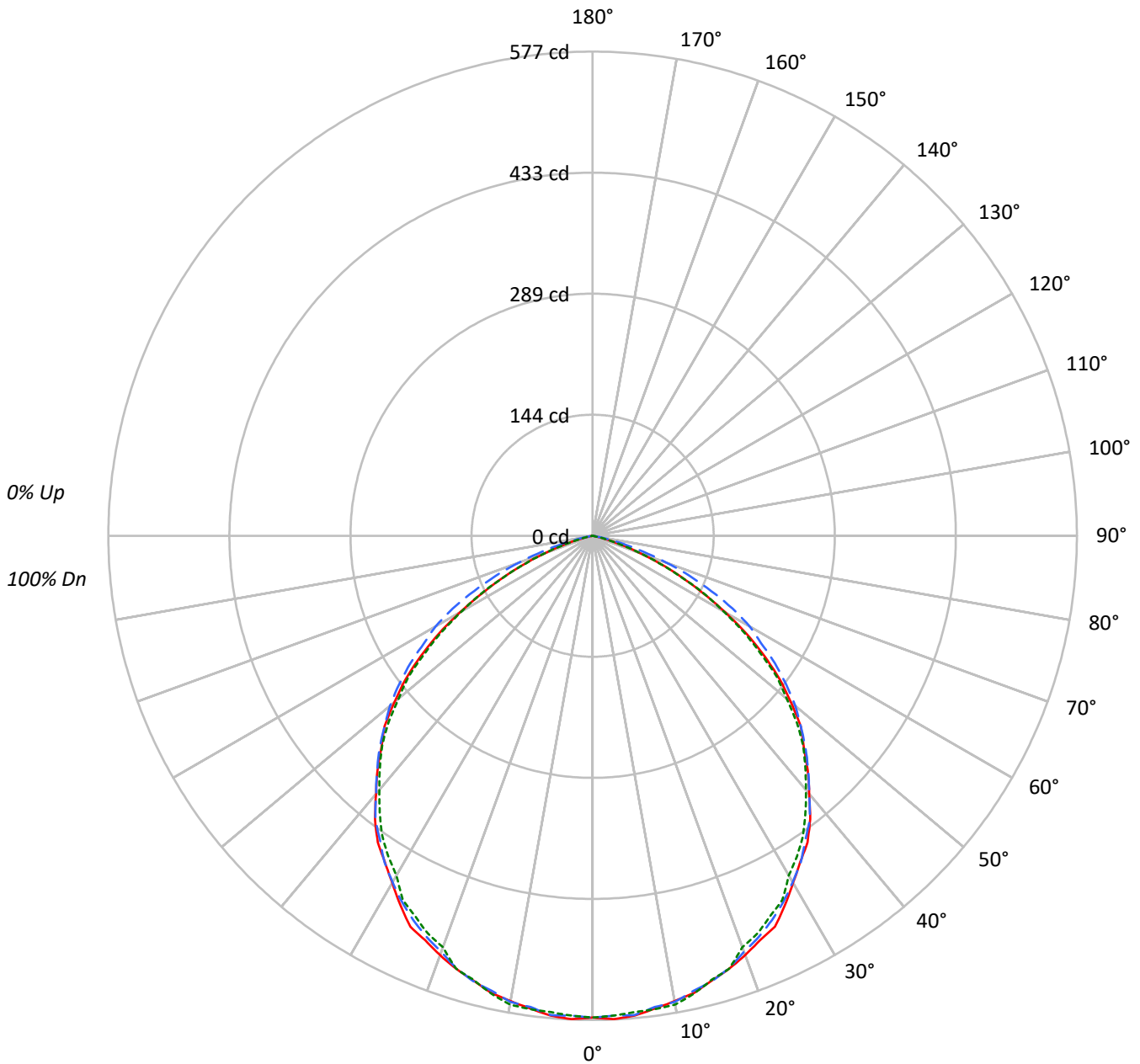
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	54.3	3.9
10°-20°	154.8	11.2
20°-30°	233.0	16.8
30°-40°	275.6	19.9
40°-50°	275.1	19.8
50°-60°	228.1	16.5
60°-70°	133.3	9.6
70°-80°	31.7	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°	442.1	31.9
0°-40°	717.7	51.8
0°-60°	1220.9	88.1
0°-90°	1386.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1386.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	574	571	573	572	570	54
15°	549	548	550	547	548	155
25°	514	508	506	504	500	235
35°	446	442	442	440	437	277
45°	356	356	359	355	355	275
55°	250	259	265	258	244	222
65°	118	132	156	132	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°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1
2.5°	576.6	573.3	575.8	570.7	574.1	570.7	571.6	569.9	573.3	572.4	571.6
5°	574.1	575.0	573.3	575.0	572.4	569.9	572.4	570.7	565.6	573.3	571.6
7.5°	568.2	569.0	567.3	569.9	568.2	564.8	571.6	566.5	565.6	566.5	569.9
10°	563.1	564.8	563.9	563.1	563.9	563.9	562.3	559.7	562.3	563.9	563.1
12.5°	558.0	560.6	558.9	557.2	555.5	556.3	558.0	553.8	553.8	555.5	560.6
15°	548.7	550.4	551.2	547.9	547.9	548.7	552.1	545.3	548.7	549.6	550.4
17.5°	541.1	541.9	541.9	539.4	541.1	538.5	541.1	537.7	541.1	540.2	541.9
20°	531.8	533.5	531.8	531.8	530.1	530.9	530.9	530.9	528.4	527.5	529.2
22.5°	521.6	521.6	519.9	521.6	519.9	519.1	523.3	516.5	523.3	517.4	522.5
25°	514.0	509.8	507.2	506.4	509.8	506.4	508.1	505.5	507.2	505.5	506.4
27.5°	496.2	493.7	492.8	493.7	493.7	492.8	496.2	486.9	492.8	492.0	492.0
30°	477.6	477.6	479.3	477.6	479.3	476.7	480.1	472.5	477.6	476.7	477.6
32.5°	460.6	461.5	461.5	463.2	460.6	461.5	461.5	458.9	460.6	461.5	459.8
35°	446.2	442.0	442.0	442.0	442.0	442.0	443.7	441.2	443.7	442.0	442.0
37.5°	425.9	421.7	421.7	420.8	425.1	422.5	426.8	423.4	423.4	425.1	425.1
40°	401.4	403.1	400.5	403.9	403.1	399.7	407.3	402.2	405.6	401.4	404.8
42.5°	379.4	380.2	379.4	378.5	381.9	381.0	384.4	381.0	380.2	380.2	386.1
45°	355.6	355.6	355.6	358.2	355.6	356.5	359.9	358.2	359.9	359.0	365.0
47.5°	336.2	331.9	331.1	336.2	335.3	336.2	336.2	337.0	337.9	336.2	338.7
50°	308.2	306.5	306.5	307.4	308.2	309.9	312.5	314.2	312.5	315.0	315.8
52.5°	281.1	279.4	280.3	283.7	285.4	284.5	288.7	289.6	288.7	290.4	290.4
55°	249.8	248.1	250.6	254.9	257.4	260.0	264.2	260.8	264.2	265.0	265.9
57.5°	217.6	216.8	217.6	221.9	224.4	230.3	237.1	237.1	240.5	237.9	240.5
60°	182.1	182.1	185.4	188.0	194.8	199.0	205.8	209.2	212.5	215.9	214.2
62.5°	148.2	149.0	151.6	157.5	161.7	167.7	175.3	178.7	184.6	188.0	186.3
65°	117.7	117.7	119.4	124.5	128.7	136.3	143.1	150.7	154.1	155.8	156.7
67.5°	88.1	87.2	90.6	94.0	98.2	105.8	113.5	117.7	123.6	125.3	124.5
70°	59.3	60.1	61.8	65.2	70.3	76.2	84.7	88.1	91.5	93.1	91.5
72.5°	37.3	37.3	38.1	41.5	44.9	49.1	55.0	58.4	62.7	63.5	61.8
75°	16.9	16.9	18.6	20.3	22.9	26.2	30.5	33.0	35.6	38.1	38.1
77.5°	3.4	4.2	5.1	5.1	6.8	9.3	11.9	14.4	16.9	16.9	16.9
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°	574.1	574.1	574.1	574.1	574.1	574.1	574.1	574.1
2.5°	574.1	579.2	574.1	571.6	575.0	574.1	571.6	572.4
5°	571.6	573.3	575.0	568.2	572.4	573.3	571.6	569.9
7.5°	569.0	569.9	569.0	567.3	567.3	567.3	569.0	569.0
10°	568.2	565.6	561.4	558.9	561.4	561.4	560.6	567.3
12.5°	557.2	560.6	558.0	552.9	558.0	557.2	557.2	558.9
15°	548.7	548.7	550.4	543.6	547.0	546.2	546.2	547.9
17.5°	540.2	540.2	539.4	537.7	536.9	539.4	536.9	541.1
20°	528.4	530.1	535.2	526.7	529.2	526.7	526.7	521.6
22.5°	514.0	522.5	518.2	517.4	516.5	517.4	519.1	513.1
25°	504.7	504.7	506.4	501.3	501.3	503.0	502.1	500.4
27.5°	492.0	491.1	490.3	488.6	492.8	489.4	489.4	489.4
30°	474.2	476.7	475.9	471.6	476.7	475.0	472.5	467.4
32.5°	458.9	462.3	457.3	456.4	455.6	456.4	457.3	453.0
35°	440.3	441.2	441.2	437.8	438.6	437.8	436.1	436.9
37.5°	423.4	422.5	418.3	416.6	417.5	417.5	418.3	416.6
40°	399.7	402.2	402.2	396.3	398.0	396.3	396.3	395.4
42.5°	380.2	381.0	378.5	376.0	376.0	375.1	373.4	375.1
45°	359.9	359.0	356.5	353.9	353.9	353.1	351.4	354.8
47.5°	337.0	335.3	334.5	331.1	331.1	326.0	326.9	330.2
50°	314.2	312.5	309.1	307.4	304.8	302.3	301.4	301.4
52.5°	287.1	287.1	283.7	280.3	279.4	277.7	276.0	276.9
55°	263.3	263.3	260.8	254.9	251.5	247.3	244.7	243.9
57.5°	236.2	234.6	229.5	222.7	219.3	215.9	213.4	213.4
60°	209.2	204.9	199.8	193.9	188.0	182.1	180.4	179.5
62.5°	179.5	175.3	166.0	159.2	155.0	151.6	148.2	150.7
65°	149.9	144.0	135.5	128.7	124.5	119.4	116.9	116.9
67.5°	118.5	112.6	104.2	97.4	93.1	89.8	86.4	86.4
70°	87.2	83.0	75.4	69.4	66.0	61.0	60.1	60.1
72.5°	59.3	54.2	48.3	44.0	40.6	37.3	35.6	34.7
75°	33.0	29.6	25.4	22.9	19.5	17.8	16.1	16.1
77.5°	13.5	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)