

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: P209426

Luminaire Tested: **LDSQ6B15D010 EU6B10209035 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209426
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 EU6B10209035 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 3500 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1383.5 lumens
Efficiency: N/A
Efficacy: 96.1 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

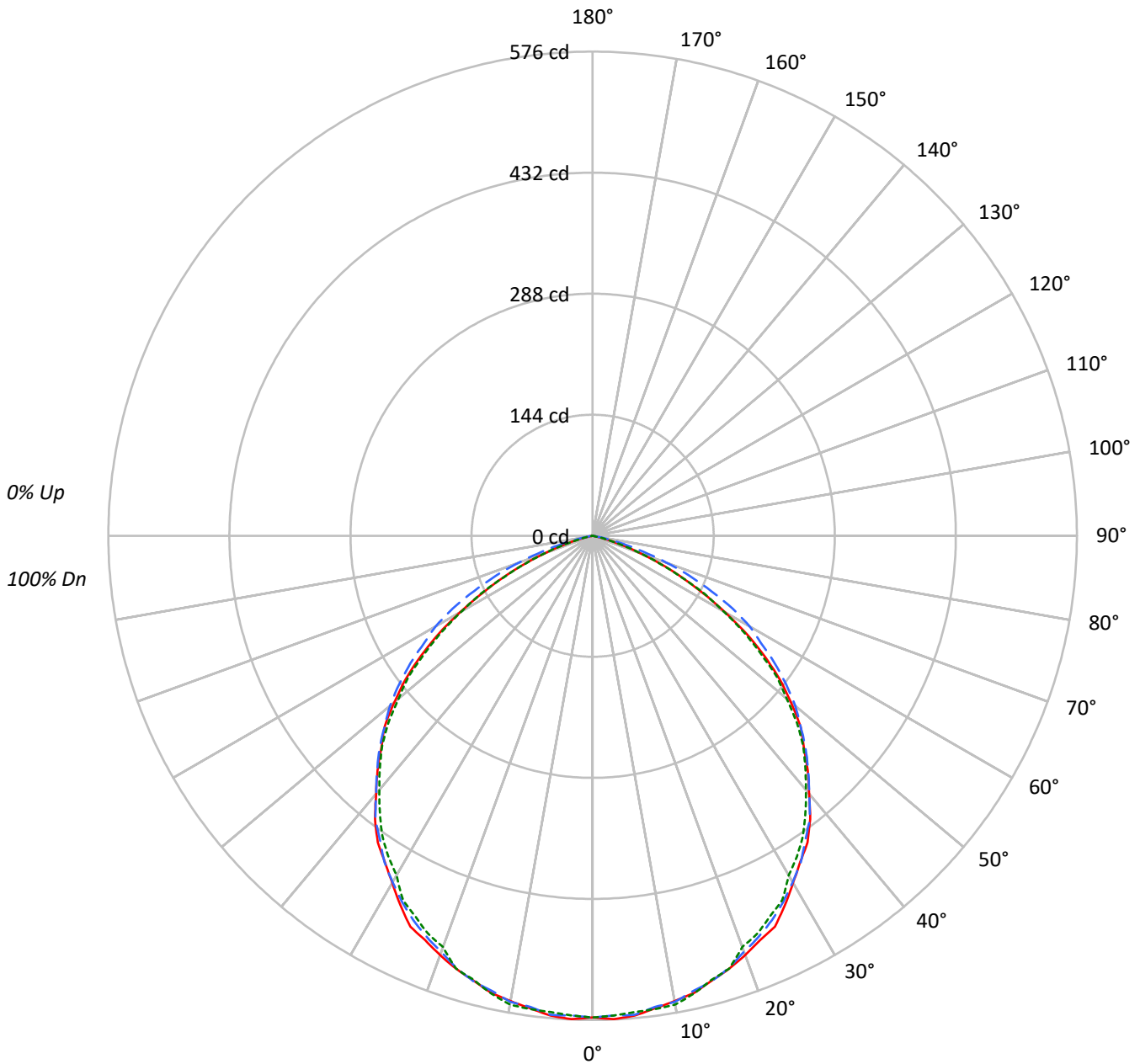
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	54.2	3.9
10°-20°	154.5	11.2
20°-30°	232.5	16.8
30°-40°	275.1	19.9
40°-50°	274.5	19.8
50°-60°	227.6	16.5
60°-70°	133.0	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°	441.3	31.9
0°-40°	716.4	51.8
0°-60°	1218.6	88.1
0°-90°	1383.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1383.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	573	570	572	570	569	54
15°	548	547	548	546	547	155
25°	513	507	505	503	500	234
35°	445	441	441	439	436	277
45°	355	355	358	355	354	275
55°	249	258	264	257	243	221
65°	118	132	156	132	117	117
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°	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
2.5°	575.6	572.2	574.7	569.6	573.0	569.6	570.5	568.8	572.2	571.3	570.5
5°	573.0	573.9	572.2	573.9	571.3	568.8	571.3	569.6	564.6	572.2	570.5
7.5°	567.1	568.0	566.3	568.8	567.1	563.7	570.5	565.4	564.6	565.4	568.8
10°	562.0	563.7	562.9	562.0	562.9	562.9	561.2	558.7	561.2	562.9	562.0
12.5°	557.0	559.5	557.8	556.1	554.4	555.3	557.0	552.7	552.7	554.4	559.5
15°	547.7	549.4	550.2	546.8	546.8	547.7	551.1	544.3	547.7	548.5	549.4
17.5°	540.1	540.9	540.9	538.4	540.1	537.5	540.1	536.7	540.1	539.2	540.9
20°	530.8	532.5	530.8	530.8	529.1	529.9	529.9	529.9	527.4	526.5	528.2
22.5°	520.6	520.6	518.9	520.6	518.9	518.1	522.3	515.6	522.3	516.4	521.5
25°	513.0	508.8	506.3	505.4	508.8	505.4	507.1	504.6	506.3	504.6	505.4
27.5°	495.3	492.7	491.9	492.7	492.7	491.9	495.3	486.0	491.9	491.0	491.0
30°	476.7	476.7	478.4	476.7	478.4	475.8	479.2	471.6	476.7	475.8	476.7
32.5°	459.8	460.6	460.6	462.3	459.8	460.6	460.6	458.1	459.8	460.6	458.9
35°	445.4	441.2	441.2	441.2	441.2	441.2	442.9	440.3	442.9	441.2	441.2
37.5°	425.1	420.9	420.9	420.1	424.3	421.7	426.0	422.6	422.6	424.3	424.3
40°	400.6	402.3	399.8	403.1	402.3	398.9	406.5	401.5	404.8	400.6	404.0
42.5°	378.6	379.5	378.6	377.8	381.2	380.3	383.7	380.3	379.5	379.5	385.4
45°	355.0	355.0	355.0	357.5	355.0	355.8	359.2	357.5	359.2	358.4	364.3
47.5°	335.5	331.3	330.5	335.5	334.7	335.5	335.5	336.4	337.2	335.5	338.1
50°	307.6	306.0	306.0	306.8	307.6	309.3	311.9	313.6	311.9	314.4	315.2
52.5°	280.6	278.9	279.8	283.1	284.8	284.0	288.2	289.0	288.2	289.9	289.9
55°	249.3	247.6	250.2	254.4	256.9	259.5	263.7	260.3	263.7	264.5	265.4
57.5°	217.2	216.4	217.2	221.4	224.0	229.9	236.6	236.6	240.0	237.5	240.0
60°	181.7	181.7	185.1	187.6	194.4	198.6	205.4	208.8	212.1	215.5	213.8
62.5°	147.9	148.8	151.3	157.2	161.4	167.3	175.0	178.3	184.2	187.6	185.9
65°	117.5	117.5	119.2	124.2	128.5	136.1	142.8	150.4	153.8	155.5	156.4
67.5°	87.9	87.1	90.4	93.8	98.0	105.6	113.3	117.5	123.4	125.1	124.2
70°	59.2	60.0	61.7	65.1	70.1	76.1	84.5	87.9	91.3	93.0	91.3
72.5°	37.2	37.2	38.0	41.4	44.8	49.0	54.9	58.3	62.5	63.4	61.7
75°	16.9	16.9	18.6	20.3	22.8	26.2	30.4	33.0	35.5	38.0	38.0
77.5°	3.4	4.2	5.1	5.1	6.8	9.3	11.8	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°	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
2.5°	573.0	578.1	573.0	570.5	573.9	573.0	570.5	571.3
5°	570.5	572.2	573.9	567.1	571.3	572.2	570.5	568.8
7.5°	568.0	568.8	568.0	566.3	566.3	566.3	568.0	568.0
10°	567.1	564.6	560.3	557.8	560.3	560.3	559.5	566.3
12.5°	556.1	559.5	557.0	551.9	557.0	556.1	556.1	557.8
15°	547.7	547.7	549.4	542.6	546.0	545.1	545.1	546.8
17.5°	539.2	539.2	538.4	536.7	535.8	538.4	535.8	540.1
20°	527.4	529.1	534.1	525.7	528.2	525.7	525.7	520.6
22.5°	513.0	521.5	517.2	516.4	515.6	516.4	518.1	512.2
25°	503.7	503.7	505.4	500.3	500.3	502.0	501.2	499.5
27.5°	491.0	490.2	489.4	487.7	491.9	488.5	488.5	488.5
30°	473.3	475.8	475.0	470.8	475.8	474.1	471.6	466.5
32.5°	458.1	461.5	456.4	455.5	454.7	455.5	456.4	452.2
35°	439.5	440.3	440.3	437.0	437.8	437.0	435.3	436.1
37.5°	422.6	421.7	417.5	415.8	416.7	416.7	417.5	415.8
40°	398.9	401.5	401.5	395.5	397.2	395.5	395.5	394.7
42.5°	379.5	380.3	377.8	375.3	375.3	374.4	372.7	374.4
45°	359.2	358.4	355.8	353.3	353.3	352.4	350.7	354.1
47.5°	336.4	334.7	333.8	330.5	330.5	325.4	326.2	329.6
50°	313.6	311.9	308.5	306.8	304.3	301.7	300.9	300.9
52.5°	286.5	286.5	283.1	279.8	278.9	277.2	275.5	276.4
55°	262.8	262.8	260.3	254.4	251.0	246.8	244.3	243.4
57.5°	235.8	234.1	229.0	222.3	218.9	215.5	213.0	213.0
60°	208.8	204.5	199.5	193.5	187.6	181.7	180.0	179.2
62.5°	179.2	175.0	165.7	158.9	154.7	151.3	147.9	150.4
65°	149.6	143.7	135.2	128.5	124.2	119.2	116.6	116.6
67.5°	118.3	112.4	104.0	97.2	93.0	89.6	86.2	86.2
70°	87.1	82.8	75.2	69.3	65.9	60.9	60.0	60.0
72.5°	59.2	54.1	48.2	43.9	40.6	37.2	35.5	34.7
75°	33.0	29.6	25.4	22.8	19.4	17.7	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



Report Generated By E9808895 / USPTCWHP6082093





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









(END OF REPORT)