

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: P209407

Luminaire Tested: **LDSQ6B10D010 EU6B10208030 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209407
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: LDSQ6B10D010 EU6B10208030 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-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W DL3-11.1 W DLE-11.39 W
Light Source: HIGH LUMEN LED 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1154.5 lumens
Efficiency: N/A
Efficacy: 114.9 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

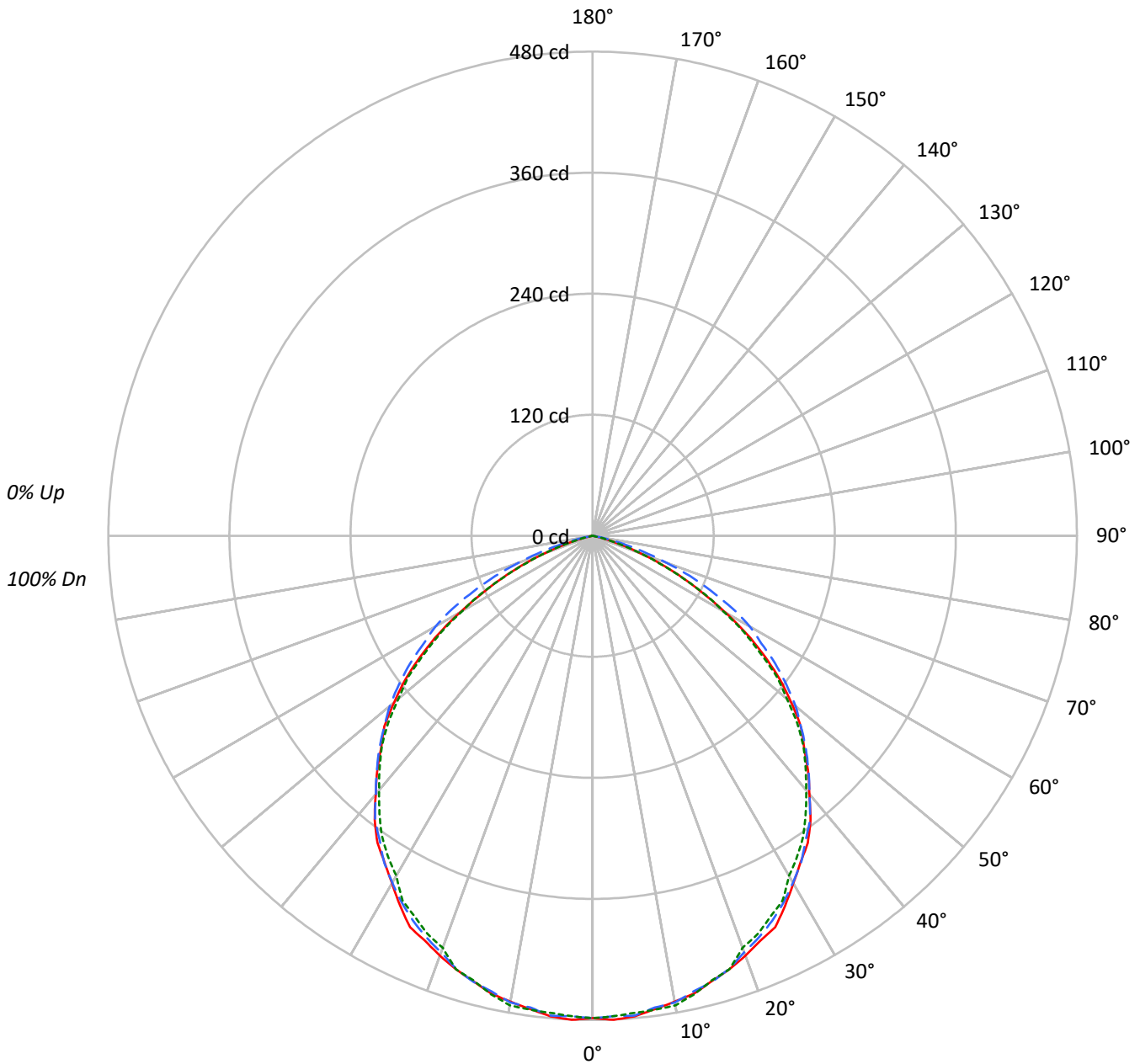
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	45.2	3.9
10°-20°	129.0	11.2
20°-30°	194.1	16.8
30°-40°	229.6	19.9
40°-50°	229.1	19.8
50°-60°	190.0	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°	368.3	31.9
0°-40°	597.8	51.8
0°-60°	1016.9	88.1
0°-90°	1154.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1154.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	478	476	478	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°	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2
2.5°	480.3	477.5	479.6	475.4	478.2	475.4	476.1	474.7	477.5	476.8	476.1
5°	478.2	478.9	477.5	478.9	476.8	474.7	476.8	475.4	471.1	477.5	476.1
7.5°	473.3	474.0	472.6	474.7	473.3	470.4	476.1	471.8	471.1	471.8	474.7
10°	469.0	470.4	469.7	469.0	469.7	469.7	468.3	466.2	468.3	469.7	469.0
12.5°	464.8	466.9	465.5	464.1	462.7	463.4	464.8	461.3	461.3	462.7	466.9
15°	457.0	458.4	459.2	456.3	456.3	457.0	459.9	454.2	457.0	457.7	458.4
17.5°	450.7	451.4	451.4	449.3	450.7	448.6	450.7	447.9	450.7	450.0	451.4
20°	442.9	444.3	442.9	442.9	441.5	442.2	442.2	442.2	440.1	439.4	440.8
22.5°	434.5	434.5	433.1	434.5	433.1	432.4	435.9	430.2	435.9	430.9	435.2
25°	428.1	424.6	422.5	421.8	424.6	421.8	423.2	421.1	422.5	421.1	421.8
27.5°	413.3	411.2	410.5	411.2	411.2	410.5	413.3	405.5	410.5	409.8	409.8
30°	397.8	397.8	399.2	397.8	399.2	397.1	399.9	393.6	397.8	397.1	397.8
32.5°	383.7	384.4	384.4	385.8	383.7	384.4	384.4	382.3	383.7	384.4	383.0
35°	371.7	368.2	368.2	368.2	368.2	368.2	369.6	367.5	369.6	368.2	368.2
37.5°	354.8	351.2	351.2	350.5	354.1	351.9	355.5	352.7	352.7	354.1	354.1
40°	334.3	335.7	333.6	336.4	335.7	332.9	339.3	335.0	337.8	334.3	337.1
42.5°	316.0	316.7	316.0	315.3	318.1	317.4	320.2	317.4	316.7	316.7	321.6
45°	296.2	296.2	296.2	298.3	296.2	296.9	299.8	298.3	299.8	299.0	304.0
47.5°	280.0	276.5	275.8	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	260.3	261.7	260.3	262.4	263.1
52.5°	234.2	232.7	233.5	236.3	237.7	237.0	240.5	241.2	240.5	241.9	241.9
55°	208.1	206.7	208.8	212.3	214.4	216.5	220.1	217.2	220.1	220.8	221.5
57.5°	181.3	180.6	181.3	184.8	186.9	191.8	197.5	197.5	200.3	198.2	200.3
60°	151.6	151.6	154.5	156.6	162.2	165.7	171.4	174.2	177.0	179.9	178.4
62.5°	123.4	124.1	126.2	131.2	134.7	139.6	146.0	148.8	153.8	156.6	155.2
65°	98.0	98.0	99.4	103.7	107.2	113.6	119.2	125.5	128.4	129.8	130.5
67.5°	73.4	72.6	75.5	78.3	81.8	88.2	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	73.4	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°	478.2	478.2	478.2	478.2	478.2	478.2	478.2	478.2
2.5°	478.2	482.4	478.2	476.1	478.9	478.2	476.1	476.8
5°	476.1	477.5	478.9	473.3	476.8	477.5	476.1	474.7
7.5°	474.0	474.7	474.0	472.6	472.6	472.6	474.0	474.0
10°	473.3	471.1	467.6	465.5	467.6	467.6	466.9	472.6
12.5°	464.1	466.9	464.8	460.6	464.8	464.1	464.1	465.5
15°	457.0	457.0	458.4	452.8	455.6	454.9	454.9	456.3
17.5°	450.0	450.0	449.3	447.9	447.2	449.3	447.2	450.7
20°	440.1	441.5	445.8	438.7	440.8	438.7	438.7	434.5
22.5°	428.1	435.2	431.6	430.9	430.2	430.9	432.4	427.4
25°	420.4	420.4	421.8	417.5	417.5	418.9	418.2	416.8
27.5°	409.8	409.1	408.4	407.0	410.5	407.7	407.7	407.7
30°	395.0	397.1	396.4	392.9	397.1	395.7	393.6	389.3
32.5°	382.3	385.1	380.9	380.2	379.5	380.2	380.9	377.3
35°	366.8	367.5	367.5	364.6	365.3	364.6	363.2	363.9
37.5°	352.7	351.9	348.4	347.0	347.7	347.7	348.4	347.0
40°	332.9	335.0	335.0	330.1	331.5	330.1	330.1	329.4
42.5°	316.7	317.4	315.3	313.2	313.2	312.4	311.0	312.4
45°	299.8	299.0	296.9	294.8	294.8	294.1	292.7	295.5
47.5°	280.7	279.3	278.6	275.8	275.8	271.5	272.2	275.1
50°	261.7	260.3	257.4	256.0	253.9	251.8	251.1	251.1
52.5°	239.1	239.1	236.3	233.5	232.7	231.3	229.9	230.6
55°	219.3	219.3	217.2	212.3	209.5	205.9	203.8	203.1
57.5°	196.8	195.4	191.1	185.5	182.7	179.9	177.7	177.7
60°	174.2	170.7	166.5	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	86.8	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	33.9	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)