

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: P209409

Luminaire Tested: **LDSQ6B10D010 EU6B10208040 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209409
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 EU6B10208040 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 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1196.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

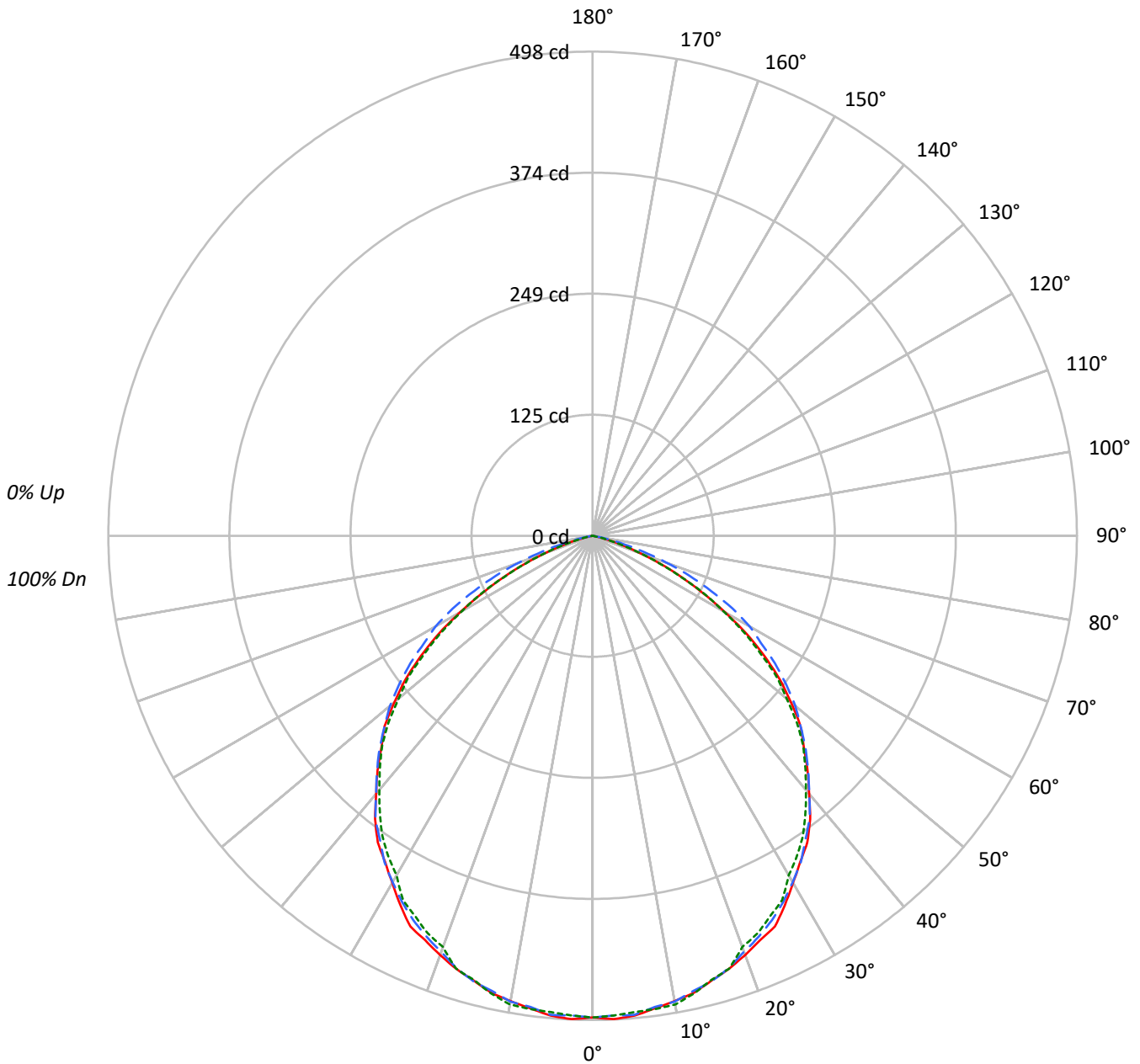
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	46.8	3.9
10°-20°	133.6	11.2
20°-30°	201.0	16.8
30°-40°	237.8	19.9
40°-50°	237.3	19.8
50°-60°	196.8	16.5
60°-70°	115.0	9.6
70°-80°	27.4	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°	381.5	31.9
0°-40°	619.3	51.8
0°-60°	1053.4	88.1
0°-90°	1196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	495	493	495	493	492	47
15°	474	473	474	472	473	134
25°	444	438	436	435	432	203
35°	385	381	381	379	377	239
45°	307	307	310	306	306	237
55°	216	223	229	222	210	191
65°	102	114	134	114	101	101
75°	15	21	33	21	14	20
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°	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4
2.5°	497.6	494.6	496.8	492.5	495.4	492.5	493.2	491.7	494.6	493.9	493.2
5°	495.4	496.1	494.6	496.1	493.9	491.7	493.9	492.5	488.1	494.6	493.2
7.5°	490.3	491.0	489.5	491.7	490.3	487.3	493.2	488.8	488.1	488.8	491.7
10°	485.9	487.3	486.6	485.9	486.6	486.6	485.1	483.0	485.1	486.6	485.9
12.5°	481.5	483.7	482.2	480.8	479.3	480.0	481.5	477.8	477.8	479.3	483.7
15°	473.5	474.9	475.6	472.7	472.7	473.5	476.4	470.5	473.5	474.2	474.9
17.5°	466.9	467.6	467.6	465.4	466.9	464.7	466.9	464.0	466.9	466.2	467.6
20°	458.8	460.3	458.8	458.8	457.4	458.1	458.1	458.1	455.9	455.2	456.7
22.5°	450.1	450.1	448.6	450.1	448.6	447.9	451.5	445.7	451.5	446.4	450.8
25°	443.5	439.8	437.7	436.9	439.8	436.9	438.4	436.2	437.7	436.2	436.9
27.5°	428.2	426.0	425.2	426.0	426.0	425.2	428.2	420.1	425.2	424.5	424.5
30°	412.1	412.1	413.5	412.1	413.5	411.4	414.3	407.7	412.1	411.4	412.1
32.5°	397.5	398.2	398.2	399.7	397.5	398.2	398.2	396.0	397.5	398.2	396.7
35°	385.0	381.4	381.4	381.4	381.4	381.4	382.9	380.7	382.9	381.4	381.4
37.5°	367.5	363.9	363.9	363.1	366.8	364.6	368.2	365.3	365.3	366.8	366.8
40°	346.3	347.8	345.6	348.5	347.8	344.9	351.4	347.1	350.0	346.3	349.2
42.5°	327.3	328.1	327.3	326.6	329.5	328.8	331.7	328.8	328.1	328.1	333.2
45°	306.9	306.9	306.9	309.1	306.9	307.6	310.5	309.1	310.5	309.8	314.9
47.5°	290.1	286.4	285.7	290.1	289.3	290.1	290.1	290.8	291.5	290.1	292.3
50°	266.0	264.5	264.5	265.2	266.0	267.4	269.6	271.1	269.6	271.8	272.5
52.5°	242.6	241.1	241.8	244.8	246.2	245.5	249.1	249.9	249.1	250.6	250.6
55°	215.5	214.1	216.3	219.9	222.1	224.3	228.0	225.0	228.0	228.7	229.4
57.5°	187.8	187.0	187.8	191.4	193.6	198.7	204.6	204.6	207.5	205.3	207.5
60°	157.1	157.1	160.0	162.2	168.0	171.7	177.5	180.5	183.4	186.3	184.9
62.5°	127.9	128.6	130.8	135.9	139.6	144.7	151.2	154.2	159.3	162.2	160.7
65°	101.6	101.6	103.0	107.4	111.1	117.6	123.5	130.1	133.0	134.4	135.2
67.5°	76.0	75.3	78.2	81.1	84.8	91.3	97.9	101.6	106.7	108.1	107.4
70°	51.1	51.9	53.3	56.3	60.6	65.8	73.1	76.0	78.9	80.4	78.9
72.5°	32.1	32.1	32.9	35.8	38.7	42.4	47.5	50.4	54.1	54.8	53.3
75°	14.6	14.6	16.1	17.5	19.7	22.6	26.3	28.5	30.7	32.9	32.9
77.5°	2.9	3.7	4.4	4.4	5.8	8.0	10.2	12.4	14.6	14.6	14.6
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	3.7	3.7	3.7
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°	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4
2.5°	495.4	499.8	495.4	493.2	496.1	495.4	493.2	493.9
5°	493.2	494.6	496.1	490.3	493.9	494.6	493.2	491.7
7.5°	491.0	491.7	491.0	489.5	489.5	489.5	491.0	491.0
10°	490.3	488.1	484.4	482.2	484.4	484.4	483.7	489.5
12.5°	480.8	483.7	481.5	477.1	481.5	480.8	480.8	482.2
15°	473.5	473.5	474.9	469.1	472.0	471.3	471.3	472.7
17.5°	466.2	466.2	465.4	464.0	463.2	465.4	463.2	466.9
20°	455.9	457.4	461.8	454.5	456.7	454.5	454.5	450.1
22.5°	443.5	450.8	447.2	446.4	445.7	446.4	447.9	442.8
25°	435.5	435.5	436.9	432.5	432.5	434.0	433.3	431.8
27.5°	424.5	423.8	423.0	421.6	425.2	422.3	422.3	422.3
30°	409.2	411.4	410.6	407.0	411.4	409.9	407.7	403.3
32.5°	396.0	398.9	394.5	393.8	393.1	393.8	394.5	390.9
35°	379.9	380.7	380.7	377.7	378.5	377.7	376.3	377.0
37.5°	365.3	364.6	360.9	359.5	360.2	360.2	360.9	359.5
40°	344.9	347.1	347.1	341.9	343.4	341.9	341.9	341.2
42.5°	328.1	328.8	326.6	324.4	324.4	323.7	322.2	323.7
45°	310.5	309.8	307.6	305.4	305.4	304.7	303.2	306.1
47.5°	290.8	289.3	288.6	285.7	285.7	281.3	282.0	285.0
50°	271.1	269.6	266.7	265.2	263.0	260.8	260.1	260.1
52.5°	247.7	247.7	244.8	241.8	241.1	239.7	238.2	238.9
55°	227.2	227.2	225.0	219.9	217.0	213.3	211.2	210.4
57.5°	203.8	202.4	198.0	192.2	189.2	186.3	184.1	184.1
60°	180.5	176.8	172.4	167.3	162.2	157.1	155.6	154.9
62.5°	154.9	151.2	143.2	137.4	133.7	130.8	127.9	130.1
65°	129.3	124.2	116.9	111.1	107.4	103.0	100.8	100.8
67.5°	102.3	97.2	89.9	84.0	80.4	77.4	74.5	74.5
70°	75.3	71.6	65.0	59.9	57.0	52.6	51.9	51.9
72.5°	51.1	46.8	41.6	38.0	35.1	32.1	30.7	30.0
75°	28.5	25.6	21.9	19.7	16.8	15.3	13.9	13.9
77.5°	11.7	9.5	7.3	5.8	4.4	3.7	2.9	3.7
80°	2.2	1.5	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)