

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: P209424

Luminaire Tested: **LDSQ6B15D010 EU6B10209027 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209424
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 EU6B10209027 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 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1312.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

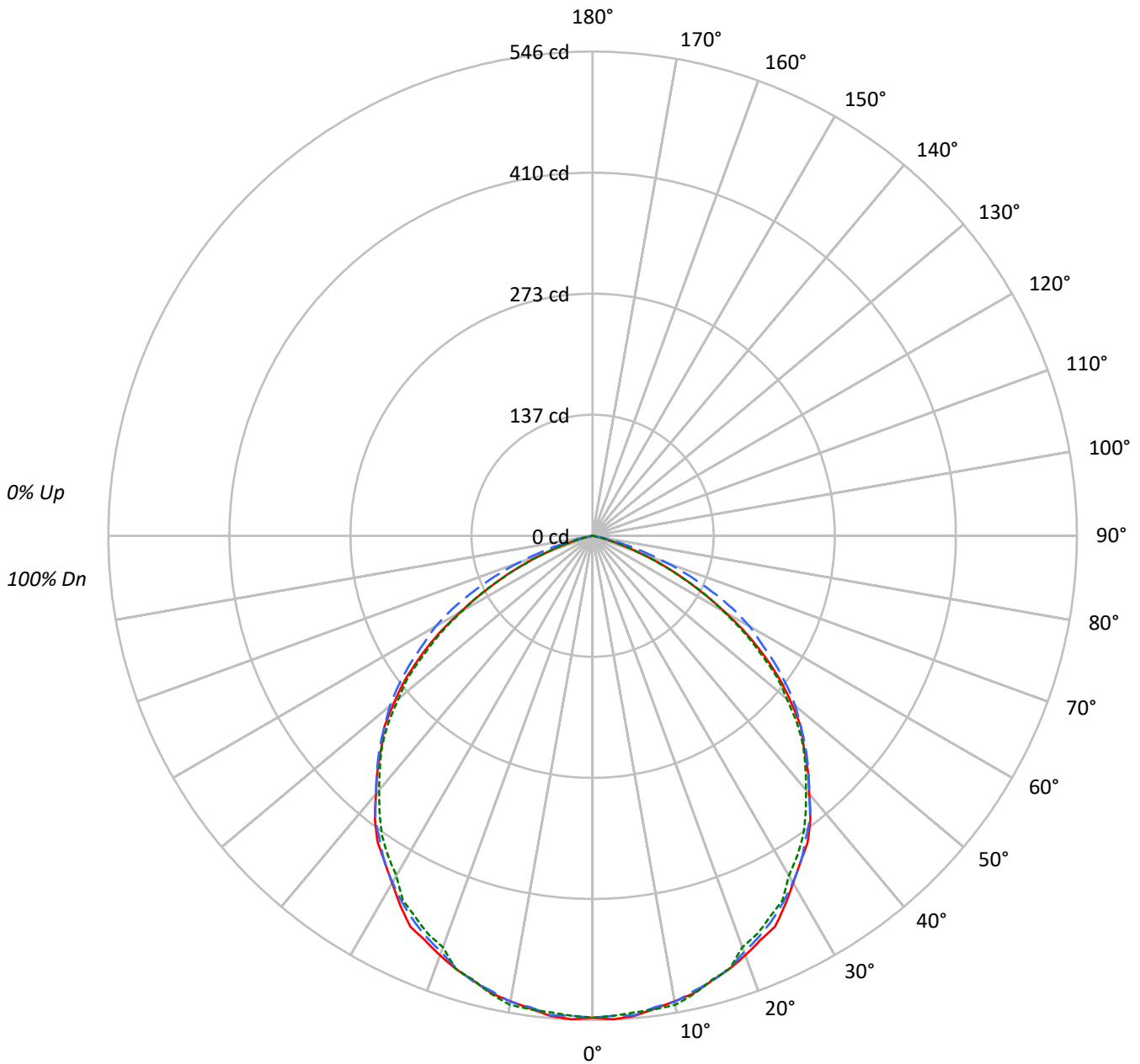
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P209424

CATALOG NUMBER: LDSQ6B15D010 EU6B10209027 6LBCSSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P209424

CATALOG NUMBER: LDSQ6B15D010 EU6B10209027 6LBCSSQ1MMS

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°			



TEST NUMBER: P209424

CATALOG NUMBER: LDSQ6B15D010 EU6B10209027 6LBCSSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	3.9
10°-20°	146.6	11.2
20°-30°	220.5	16.8
30°-40°	260.9	19.9
40°-50°	260.4	19.8
50°-60°	215.9	16.5
60°-70°	126.1	9.6
70°-80°	30.0	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°	418.5	31.9
0°-40°	679.4	51.8
0°-60°	1155.6	88.1
0°-90°	1312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	543	541	543	541	539	51
15°	519	519	520	518	519	147
25°	486	481	478	477	474	222
35°	422	418	418	416	414	263
45°	337	337	340	336	336	260
55°	236	245	251	244	231	210
65°	111	125	148	125	111	111
75°	16	23	36	23	15	22
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P209424

CATALOG NUMBER: LDSQ6B15D010 EU6B10209027 6LBCSSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4
2.5°	545.8	542.6	545.0	540.2	543.4	540.2	541.0	539.4	542.6	541.8	541.0
5°	543.4	544.2	542.6	544.2	541.8	539.4	541.8	540.2	535.4	542.6	541.0
7.5°	537.8	538.6	537.0	539.4	537.8	534.6	541.0	536.2	535.4	536.2	539.4
10°	533.0	534.6	533.8	533.0	533.8	533.8	532.2	529.8	532.2	533.8	533.0
12.5°	528.2	530.6	529.0	527.4	525.8	526.6	528.2	524.2	524.2	525.8	530.6
15°	519.4	521.0	521.8	518.6	518.6	519.4	522.6	516.2	519.4	520.2	521.0
17.5°	512.2	513.0	513.0	510.6	512.2	509.8	512.2	509.0	512.2	511.4	513.0
20°	503.4	505.0	503.4	503.4	501.8	502.6	502.6	502.6	500.2	499.4	501.0
22.5°	493.7	493.7	492.1	493.7	492.1	491.3	495.3	488.9	495.3	489.7	494.5
25°	486.5	482.5	480.1	479.3	482.5	479.3	480.9	478.5	480.1	478.5	479.3
27.5°	469.7	467.3	466.5	467.3	467.3	466.5	469.7	460.9	466.5	465.7	465.7
30°	452.1	452.1	453.7	452.1	453.7	451.3	454.5	447.3	452.1	451.3	452.1
32.5°	436.0	436.8	436.8	438.4	436.0	436.8	436.8	434.4	436.0	436.8	435.2
35°	422.4	418.4	418.4	418.4	418.4	418.4	420.0	417.6	420.0	418.4	418.4
37.5°	403.2	399.2	399.2	398.4	402.4	400.0	404.0	400.8	400.8	402.4	402.4
40°	379.9	381.5	379.1	382.3	381.5	378.3	385.5	380.7	383.9	379.9	383.1
42.5°	359.1	359.9	359.1	358.3	361.5	360.7	363.9	360.7	359.9	359.9	365.5
45°	336.6	336.6	336.6	339.0	336.6	337.4	340.6	339.0	340.6	339.8	345.5
47.5°	318.2	314.2	313.4	318.2	317.4	318.2	318.2	319.0	319.8	318.2	320.6
50°	291.8	290.2	290.2	291.0	291.8	293.4	295.8	297.4	295.8	298.2	299.0
52.5°	266.1	264.5	265.3	268.5	270.1	269.3	273.3	274.1	273.3	274.9	274.9
55°	236.5	234.8	237.3	241.3	243.7	246.1	250.1	246.9	250.1	250.9	251.7
57.5°	206.0	205.2	206.0	210.0	212.4	218.0	224.4	224.4	227.6	225.2	227.6
60°	172.3	172.3	175.5	177.9	184.4	188.4	194.8	198.0	201.2	204.4	202.8
62.5°	140.3	141.1	143.5	149.1	153.1	158.7	165.9	169.1	174.7	177.9	176.3
65°	111.4	111.4	113.0	117.8	121.8	129.0	135.5	142.7	145.9	147.5	148.3
67.5°	83.4	82.6	85.8	89.0	93.0	100.2	107.4	111.4	117.0	118.6	117.8
70°	56.1	56.9	58.5	61.7	66.5	72.1	80.2	83.4	86.6	88.2	86.6
72.5°	35.3	35.3	36.1	39.3	42.5	46.5	52.1	55.3	59.3	60.1	58.5
75°	16.0	16.0	17.6	19.2	21.6	24.8	28.9	31.3	33.7	36.1	36.1
77.5°	3.2	4.0	4.8	4.8	6.4	8.8	11.2	13.6	16.0	16.0	16.0
80°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4	4.0	4.0	4.0
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



TEST NUMBER: P209424

CATALOG NUMBER: LDSQ6B15D010 EU6B10209027 6LBCSSQ1MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	543.4	543.4	543.4	543.4	543.4	543.4	543.4	543.4
2.5°	543.4	548.2	543.4	541.0	544.2	543.4	541.0	541.8
5°	541.0	542.6	544.2	537.8	541.8	542.6	541.0	539.4
7.5°	538.6	539.4	538.6	537.0	537.0	537.0	538.6	538.6
10°	537.8	535.4	531.4	529.0	531.4	531.4	530.6	537.0
12.5°	527.4	530.6	528.2	523.4	528.2	527.4	527.4	529.0
15°	519.4	519.4	521.0	514.6	517.8	517.0	517.0	518.6
17.5°	511.4	511.4	510.6	509.0	508.2	510.6	508.2	512.2
20°	500.2	501.8	506.6	498.6	501.0	498.6	498.6	493.7
22.5°	486.5	494.5	490.5	489.7	488.9	489.7	491.3	485.7
25°	477.7	477.7	479.3	474.5	474.5	476.1	475.3	473.7
27.5°	465.7	464.9	464.1	462.5	466.5	463.3	463.3	463.3
30°	448.9	451.3	450.5	446.5	451.3	449.7	447.3	442.4
32.5°	434.4	437.6	432.8	432.0	431.2	432.0	432.8	428.8
35°	416.8	417.6	417.6	414.4	415.2	414.4	412.8	413.6
37.5°	400.8	400.0	396.0	394.4	395.2	395.2	396.0	394.4
40°	378.3	380.7	380.7	375.1	376.7	375.1	375.1	374.3
42.5°	359.9	360.7	358.3	355.9	355.9	355.1	353.5	355.1
45°	340.6	339.8	337.4	335.0	335.0	334.2	332.6	335.8
47.5°	319.0	317.4	316.6	313.4	313.4	308.6	309.4	312.6
50°	297.4	295.8	292.6	291.0	288.6	286.1	285.3	285.3
52.5°	271.7	271.7	268.5	265.3	264.5	262.9	261.3	262.1
55°	249.3	249.3	246.9	241.3	238.1	234.0	231.6	230.8
57.5°	223.6	222.0	217.2	210.8	207.6	204.4	202.0	202.0
60°	198.0	194.0	189.2	183.6	177.9	172.3	170.7	169.9
62.5°	169.9	165.9	157.1	150.7	146.7	143.5	140.3	142.7
65°	141.9	136.3	128.2	121.8	117.8	113.0	110.6	110.6
67.5°	112.2	106.6	98.6	92.2	88.2	85.0	81.8	81.8
70°	82.6	78.5	71.3	65.7	62.5	57.7	56.9	56.9
72.5°	56.1	51.3	45.7	41.7	38.5	35.3	33.7	32.9
75°	31.3	28.1	24.0	21.6	18.4	16.8	15.2	15.2
77.5°	12.8	10.4	8.0	6.4	4.8	4.0	3.2	4.0
80°	2.4	1.6	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)