

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: P209323

Luminaire Tested: **LDSQ6B15D010 EU6B10209030 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35360)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6B15D010 EU6B10209030 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR 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 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1242.6 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

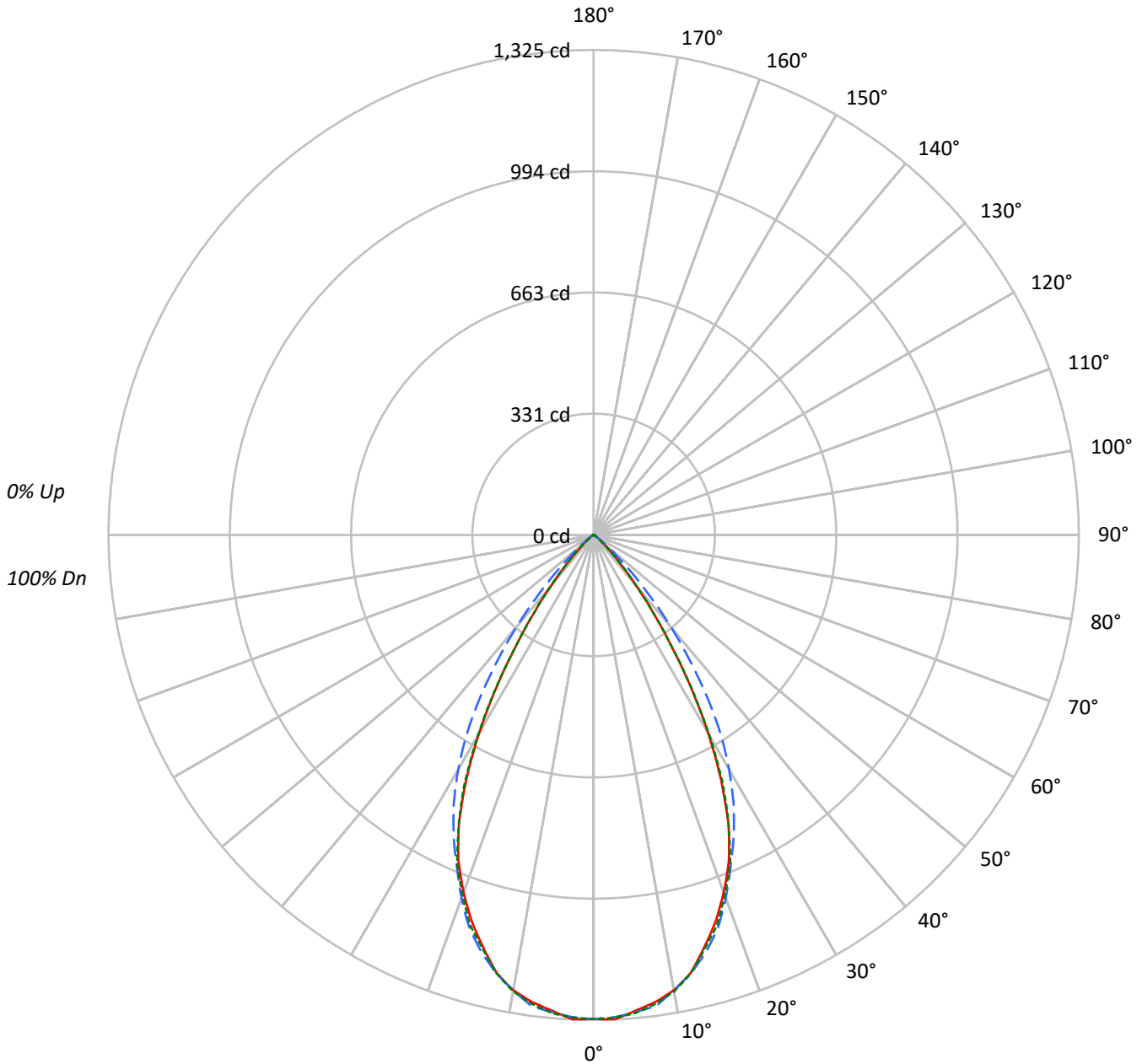
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P209323

CATALOG NUMBER: LDSQ6B15D010 EU6B10209030 6LBSQ1LI

Luminous Intensity Polar Plot





TEST NUMBER: P209323

CATALOG NUMBER: LDSQ6B15D010 EU6B10209030 6LBSQ1LI

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53																			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50																			

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: P209323

CATALOG NUMBER: LDSQ6B15D010 EU6B10209030 6LBSQ1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	10.0
10°-20°	329.3	26.5
20°-30°	404.2	32.5
30°-40°	279.0	22.5
40°-50°	87.2	7.0
50°-60°	13.6	1.1
60°-70°	3.9	0.3
70°-80°	1.3	0.1
80°-90°	0.3	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°	857.3	69.0
0°-40°	1136.3	91.4
0°-60°	1237.1	99.6
0°-90°	1242.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1305	1310	1308	1309	1312	123
15°	1166	1183	1182	1180	1171	326
25°	871	893	905	899	872	390
35°	368	434	539	439	369	235
45°	69	95	152	94	71	62
55°	12	12	14	12	11	11
65°	3	4	3	4	3	4
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P209323

CATALOG NUMBER: LDSQ6B15D010 EU6B10209030 6LBSQ1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1324.8	1306.5	1318.2	1315.7	1322.3	1326.5	1322.3	1329.8	1324.8	1319.0	1320.7
5°	1304.8	1307.3	1306.5	1308.2	1309.8	1309.8	1318.2	1319.0	1320.7	1308.2	1311.5
7.5°	1287.3	1287.3	1291.5	1289.8	1295.7	1294.0	1294.8	1301.5	1302.3	1299.0	1296.5
10°	1263.2	1259.8	1255.7	1255.7	1263.2	1264.0	1270.7	1271.5	1276.5	1263.2	1264.8
12.5°	1225.7	1224.0	1217.3	1220.7	1226.5	1223.2	1234.0	1234.8	1233.2	1227.3	1230.7
15°	1166.5	1173.2	1171.5	1170.7	1184.0	1182.3	1181.5	1184.0	1184.8	1181.5	1179.0
17.5°	1107.4	1113.2	1114.0	1115.7	1118.2	1120.7	1124.0	1133.2	1129.9	1127.4	1135.7
20°	1039.0	1036.5	1043.2	1049.9	1052.4	1052.4	1057.4	1064.0	1059.0	1055.7	1056.5
22.5°	964.9	969.0	965.7	972.4	975.7	979.9	984.9	990.7	986.5	977.4	988.2
25°	870.7	873.2	884.1	883.2	888.2	898.2	905.7	905.7	905.7	904.9	904.9
27.5°	752.4	750.7	764.1	773.2	785.7	801.6	811.6	827.4	829.9	827.4	821.6
30°	625.8	624.1	640.8	652.4	674.9	682.4	709.9	724.9	740.7	739.9	735.7
32.5°	494.1	497.4	510.8	527.4	545.8	569.1	594.9	628.3	642.4	645.8	638.3
35°	367.5	372.5	385.0	399.1	421.6	447.4	483.3	514.9	539.1	539.1	533.3
37.5°	265.0	266.6	278.3	287.5	310.8	334.1	365.0	408.3	423.3	429.1	423.3
40°	180.8	180.8	187.5	197.5	216.6	236.6	265.0	297.5	319.1	328.3	318.3
42.5°	115.0	116.7	121.7	128.3	142.5	160.0	181.6	205.8	221.6	228.3	219.1
45°	69.2	70.8	75.0	80.0	89.2	100.0	115.0	132.5	145.8	151.6	147.5
47.5°	41.7	43.3	45.0	48.3	55.0	62.5	70.0	80.0	88.3	89.2	87.5
50°	24.2	24.2	25.8	28.3	31.7	35.8	40.0	45.8	48.3	51.7	48.3
52.5°	15.8	15.8	15.8	16.7	18.3	20.0	21.7	25.0	26.7	26.7	25.8
55°	11.7	11.7	11.7	11.7	12.5	12.5	12.5	13.3	14.2	14.2	14.2
57.5°	8.3	8.3	8.3	9.2	9.2	9.2	8.3	8.3	8.3	8.3	8.3
60°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	5.8	5.8	5.8
62.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	3.3	3.3	3.3	4.2	4.2	4.2	4.2	3.3	3.3	3.3	3.3
67.5°	2.5	2.5	2.5	3.3	3.3	3.3	3.3	3.3	2.5	2.5	2.5
70°	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P209323

CATALOG NUMBER: LDSQ6B15D010 EU6B10209030 6LBSQ1LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1325.7	1321.5	1321.5	1321.5	1319.8	1321.5	1324.0	1319.8
5°	1311.5	1313.2	1305.7	1311.5	1314.0	1309.8	1319.8	1311.5
7.5°	1299.0	1296.5	1284.8	1293.2	1298.2	1299.8	1299.0	1292.3
10°	1274.0	1268.2	1263.2	1263.2	1261.5	1260.7	1269.8	1266.5
12.5°	1229.0	1233.2	1225.7	1229.8	1226.5	1227.3	1228.2	1226.5
15°	1190.7	1186.5	1176.5	1183.2	1179.0	1174.8	1183.2	1170.7
17.5°	1130.7	1129.9	1124.0	1119.9	1121.5	1120.7	1124.9	1119.0
20°	1059.9	1061.5	1058.2	1056.5	1054.0	1048.2	1053.2	1046.5
22.5°	983.2	984.9	988.2	981.5	982.4	974.0	981.5	974.0
25°	905.7	904.9	900.7	897.4	888.2	879.1	877.4	871.6
27.5°	820.7	814.9	804.9	794.1	779.9	767.4	766.6	762.4
30°	727.4	714.9	696.6	679.1	657.4	638.3	638.3	631.6
32.5°	629.1	600.8	575.8	554.1	525.8	514.9	504.1	498.3
35°	511.6	486.6	456.6	420.8	407.4	380.8	382.5	369.1
37.5°	400.8	370.0	341.6	312.5	289.1	276.6	270.0	263.3
40°	297.5	267.5	236.6	217.5	196.6	185.8	181.6	180.0
42.5°	203.3	178.3	158.3	142.5	131.6	120.0	116.7	115.0
45°	132.5	118.3	100.0	87.5	80.0	73.3	73.3	70.8
47.5°	79.2	70.0	60.8	52.5	47.5	43.3	41.7	40.8
50°	44.2	39.2	34.2	30.8	27.5	25.0	24.2	24.2
52.5°	24.2	21.7	20.0	17.5	15.8	15.8	15.8	15.0
55°	12.5	12.5	12.5	12.5	11.7	11.7	11.7	10.8
57.5°	8.3	8.3	9.2	9.2	9.2	8.3	8.3	8.3
60°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
62.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	3.3	4.2	4.2	4.2	4.2	3.3	3.3	3.3
67.5°	2.5	3.3	3.3	3.3	2.5	2.5	2.5	2.5
70°	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	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)