

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: P209318

Luminaire Tested: **LDSQ6B15D010 EU6B10208030 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209318
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 EU6B10208030 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: 1454.6 lumens
Efficiency: N/A
Efficacy: 101.1 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

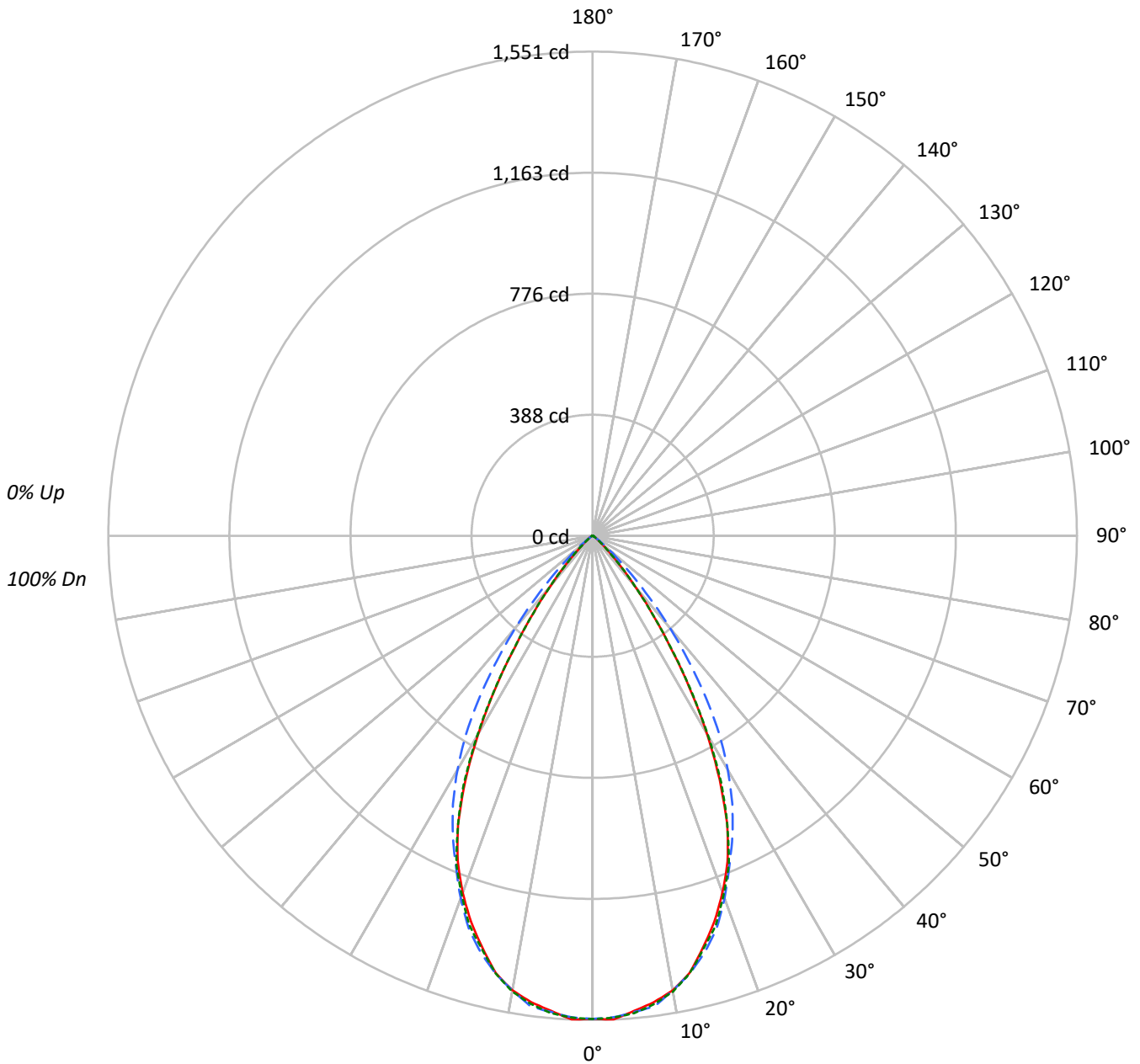
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	10.0
10°-20°	385.5	26.5
20°-30°	473.1	32.5
30°-40°	326.6	22.5
40°-50°	102.1	7.0
50°-60°	16.0	1.1
60°-70°	4.6	0.3
70°-80°	1.5	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°	1003.4	69.0
0°-40°	1330.0	91.4
0°-60°	1448.0	99.6
0°-90°	1454.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1527	1533	1531	1532	1535	144
15°	1365	1385	1383	1381	1370	382
25°	1019	1046	1059	1052	1020	457
35°	430	509	631	514	432	275
45°	81	111	178	110	83	73
55°	14	15	17	15	13	13
65°	4	5	4	5	4	4
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8
2.5°	1550.7	1529.3	1542.9	1540.0	1547.8	1552.7	1547.8	1556.6	1550.7	1543.9	1545.8
5°	1527.3	1530.2	1529.3	1531.2	1533.2	1533.2	1542.9	1543.9	1545.8	1531.2	1535.1
7.5°	1506.8	1506.8	1511.7	1509.7	1516.6	1514.6	1515.6	1523.4	1524.4	1520.5	1517.6
10°	1478.5	1474.6	1469.8	1469.8	1478.5	1479.5	1487.3	1488.3	1494.1	1478.5	1480.5
12.5°	1434.7	1432.7	1424.9	1428.8	1435.6	1431.7	1444.4	1445.4	1443.4	1436.6	1440.5
15°	1365.4	1373.2	1371.3	1370.3	1385.9	1383.9	1383.0	1385.9	1386.9	1383.0	1380.0
17.5°	1296.2	1303.0	1304.0	1305.9	1308.8	1311.8	1315.7	1326.4	1322.5	1319.6	1329.3
20°	1216.2	1213.3	1221.1	1228.9	1231.8	1231.8	1237.6	1245.4	1239.6	1235.7	1236.7
22.5°	1129.4	1134.3	1130.4	1138.2	1142.1	1146.9	1152.8	1159.6	1154.7	1144.0	1156.7
25°	1019.2	1022.1	1034.8	1033.8	1039.7	1051.4	1060.1	1060.1	1060.1	1059.2	1059.2
27.5°	880.7	878.7	894.3	905.1	919.7	938.2	949.9	968.5	971.4	968.5	961.6
30°	732.4	730.5	750.0	763.7	790.0	798.8	830.9	848.5	867.0	866.1	861.2
32.5°	578.3	582.2	597.9	617.4	638.8	666.1	696.4	735.4	751.9	755.8	747.1
35°	430.1	436.0	450.6	467.2	493.5	523.7	565.7	602.7	631.0	631.0	624.2
37.5°	310.1	312.1	325.7	336.5	363.8	391.1	427.2	477.9	495.4	502.3	495.4
40°	211.6	211.6	219.4	231.1	253.6	277.0	310.1	348.2	373.5	384.3	372.6
42.5°	134.6	136.5	142.4	150.2	166.8	187.3	212.6	240.9	259.4	267.2	256.5
45°	80.9	82.9	87.8	93.6	104.4	117.0	134.6	155.1	170.7	177.5	172.6
47.5°	48.8	50.7	52.7	56.6	64.4	73.1	81.9	93.6	103.4	104.4	102.4
50°	28.3	28.3	30.2	33.2	37.1	41.9	46.8	53.6	56.6	60.5	56.6
52.5°	18.5	18.5	18.5	19.5	21.5	23.4	25.4	29.3	31.2	31.2	30.2
55°	13.7	13.7	13.7	13.7	14.6	14.6	14.6	15.6	16.6	16.6	16.6
57.5°	9.8	9.8	9.8	10.7	10.7	10.7	9.8	9.8	9.8	9.8	9.8
60°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	6.8	6.8	6.8
62.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
65°	3.9	3.9	3.9	4.9	4.9	4.9	4.9	3.9	3.9	3.9	3.9
67.5°	2.9	2.9	2.9	3.9	3.9	3.9	3.9	3.9	2.9	2.9	2.9
70°	2.0	2.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8
2.5°	1551.7	1546.8	1546.8	1546.8	1544.9	1546.8	1549.7	1544.9
5°	1535.1	1537.1	1528.3	1535.1	1538.0	1533.2	1544.9	1535.1
7.5°	1520.5	1517.6	1503.9	1513.6	1519.5	1521.5	1520.5	1512.7
10°	1491.2	1484.4	1478.5	1478.5	1476.6	1475.6	1486.3	1482.4
12.5°	1438.6	1443.4	1434.7	1439.5	1435.6	1436.6	1437.6	1435.6
15°	1393.7	1388.8	1377.1	1384.9	1380.0	1375.2	1384.9	1370.3
17.5°	1323.5	1322.5	1315.7	1310.8	1312.7	1311.8	1316.6	1309.8
20°	1240.6	1242.5	1238.6	1236.7	1233.7	1226.9	1232.8	1225.0
22.5°	1150.8	1152.8	1156.7	1148.9	1149.9	1140.1	1148.9	1140.1
25°	1060.1	1059.2	1054.3	1050.4	1039.7	1028.9	1027.0	1020.2
27.5°	960.7	953.8	942.1	929.5	912.9	898.2	897.3	892.4
30°	851.4	836.8	815.3	794.9	769.5	747.1	747.1	739.3
32.5°	736.3	703.2	673.9	648.6	615.4	602.7	590.1	583.2
35°	598.8	569.6	534.5	492.5	476.9	445.7	447.7	432.1
37.5°	469.1	433.0	399.9	365.7	338.4	323.8	316.0	308.2
40°	348.2	313.1	277.0	254.6	230.2	217.5	212.6	210.7
42.5°	238.0	208.7	185.3	166.8	154.1	140.4	136.5	134.6
45°	155.1	138.5	117.0	102.4	93.6	85.8	85.8	82.9
47.5°	92.7	81.9	71.2	61.4	55.6	50.7	48.8	47.8
50°	51.7	45.8	40.0	36.1	32.2	29.3	28.3	28.3
52.5°	28.3	25.4	23.4	20.5	18.5	18.5	18.5	17.6
55°	14.6	14.6	14.6	14.6	13.7	13.7	13.7	12.7
57.5°	9.8	9.8	10.7	10.7	10.7	9.8	9.8	9.8
60°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
62.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
65°	3.9	4.9	4.9	4.9	4.9	3.9	3.9	3.9
67.5°	2.9	3.9	3.9	3.9	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	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



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









(END OF REPORT)