

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: P209317

Luminaire Tested: **LDSQ6B15D010 EU6B10208027 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209317
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 EU6B10208027 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 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1391.8 lumens
Efficiency: N/A
Efficacy: 96.7 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

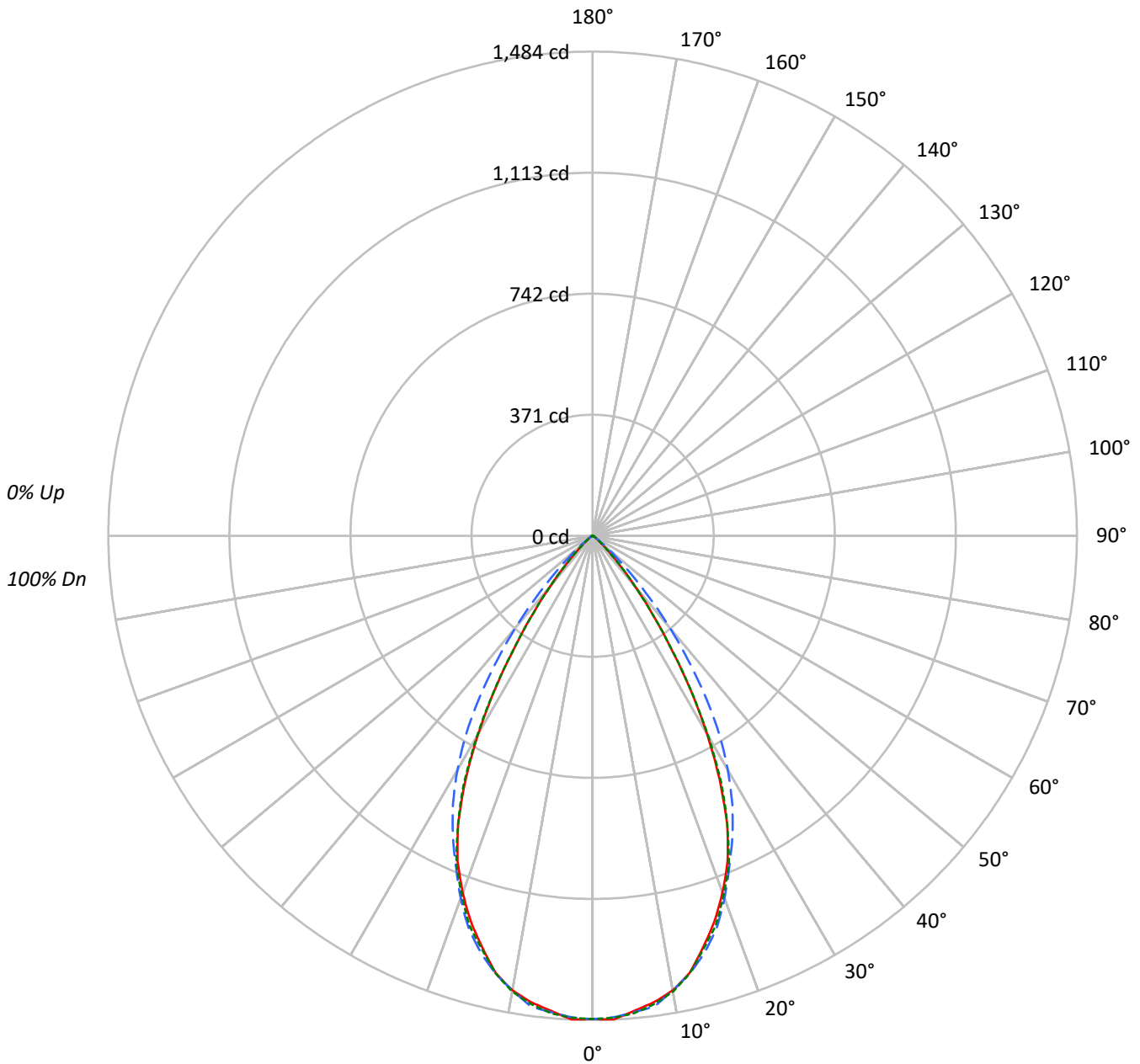
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	138.7	10.0
10°-20°	368.8	26.5
20°-30°	452.7	32.5
30°-40°	312.5	22.5
40°-50°	97.7	7.0
50°-60°	15.3	1.1
60°-70°	4.4	0.3
70°-80°	1.4	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°	960.2	69.0
0°-40°	1272.7	91.4
0°-60°	1385.6	99.6
0°-90°	1391.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1391.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1462	1467	1465	1466	1469	138
15°	1307	1325	1323	1322	1311	365
25°	975	1000	1014	1007	976	437
35°	412	487	604	491	413	263
45°	78	106	170	105	79	69
55°	13	14	16	14	12	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°	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1
2.5°	1483.9	1463.3	1476.4	1473.6	1481.1	1485.7	1481.1	1489.5	1483.9	1477.3	1479.2
5°	1461.5	1464.3	1463.3	1465.2	1467.1	1467.1	1476.4	1477.3	1479.2	1465.2	1468.9
7.5°	1441.9	1441.9	1446.5	1444.7	1451.2	1449.3	1450.3	1457.7	1458.7	1454.9	1452.1
10°	1414.8	1411.1	1406.4	1406.4	1414.8	1415.7	1423.2	1424.1	1429.7	1414.8	1416.7
12.5°	1372.8	1371.0	1363.5	1367.2	1373.8	1370.0	1382.2	1383.1	1381.2	1374.7	1378.4
15°	1306.6	1314.0	1312.2	1311.2	1326.2	1324.3	1323.4	1326.2	1327.1	1323.4	1320.6
17.5°	1240.3	1246.8	1247.8	1249.6	1252.4	1255.2	1259.0	1269.2	1265.5	1262.7	1272.0
20°	1163.8	1161.0	1168.4	1175.9	1178.7	1178.7	1184.3	1191.8	1186.2	1182.4	1183.4
22.5°	1080.7	1085.4	1081.6	1089.1	1092.8	1097.5	1103.1	1109.6	1105.0	1094.7	1106.8
25°	975.3	978.1	990.2	989.3	994.9	1006.0	1014.4	1014.4	1014.4	1013.5	1013.5
27.5°	842.7	840.9	855.8	866.1	880.1	897.8	909.0	926.7	929.5	926.7	920.2
30°	700.9	699.0	717.7	730.7	755.9	764.3	795.1	811.9	829.7	828.7	824.1
32.5°	553.4	557.2	572.1	590.8	611.3	637.4	666.3	703.7	719.5	723.3	714.9
35°	411.6	417.2	431.2	447.0	472.2	501.2	541.3	576.8	603.8	603.8	597.3
37.5°	296.8	298.6	311.7	322.0	348.1	374.2	408.8	457.3	474.1	480.6	474.1
40°	202.5	202.5	210.0	221.2	242.6	265.0	296.8	333.2	357.4	367.7	356.5
42.5°	128.8	130.7	136.3	143.7	159.6	179.2	203.4	230.5	248.2	255.7	245.4
45°	77.5	79.3	84.0	89.6	99.9	112.0	128.8	148.4	163.3	169.9	165.2
47.5°	46.7	48.5	50.4	54.1	61.6	70.0	78.4	89.6	98.9	99.9	98.0
50°	27.1	27.1	28.9	31.7	35.5	40.1	44.8	51.3	54.1	57.9	54.1
52.5°	17.7	17.7	17.7	18.7	20.5	22.4	24.3	28.0	29.9	29.9	28.9
55°	13.1	13.1	13.1	13.1	14.0	14.0	14.0	14.9	15.9	15.9	15.9
57.5°	9.3	9.3	9.3	10.3	10.3	10.3	9.3	9.3	9.3	9.3	9.3
60°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.5	6.5	6.5
62.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
65°	3.7	3.7	3.7	4.7	4.7	4.7	4.7	3.7	3.7	3.7	3.7
67.5°	2.8	2.8	2.8	3.7	3.7	3.7	3.7	3.7	2.8	2.8	2.8
70°	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1	1481.1
2.5°	1484.8	1480.1	1480.1	1480.1	1478.3	1480.1	1482.9	1478.3
5°	1468.9	1470.8	1462.4	1468.9	1471.7	1467.1	1478.3	1468.9
7.5°	1454.9	1452.1	1439.1	1448.4	1454.0	1455.9	1454.9	1447.5
10°	1426.9	1420.4	1414.8	1414.8	1412.9	1412.0	1422.3	1418.5
12.5°	1376.6	1381.2	1372.8	1377.5	1373.8	1374.7	1375.6	1373.8
15°	1333.6	1329.0	1317.8	1325.2	1320.6	1315.9	1325.2	1311.2
17.5°	1266.4	1265.5	1259.0	1254.3	1256.2	1255.2	1259.9	1253.4
20°	1187.1	1189.0	1185.2	1183.4	1180.6	1174.0	1179.6	1172.2
22.5°	1101.2	1103.1	1106.8	1099.4	1100.3	1091.0	1099.4	1091.0
25°	1014.4	1013.5	1008.8	1005.1	994.9	984.6	982.7	976.2
27.5°	919.3	912.7	901.5	889.4	873.5	859.5	858.6	853.9
30°	814.7	800.7	780.2	760.6	736.3	714.9	714.9	707.4
32.5°	704.6	672.9	644.9	620.6	588.9	576.8	564.6	558.1
35°	573.0	545.0	511.4	471.3	456.4	426.5	428.4	413.4
37.5°	448.9	414.4	382.6	350.0	323.8	309.8	302.4	294.9
40°	333.2	299.6	265.0	243.6	220.2	208.1	203.4	201.6
42.5°	227.7	199.7	177.3	159.6	147.5	134.4	130.7	128.8
45°	148.4	132.5	112.0	98.0	89.6	82.1	82.1	79.3
47.5°	88.7	78.4	68.1	58.8	53.2	48.5	46.7	45.7
50°	49.5	43.9	38.3	34.5	30.8	28.0	27.1	27.1
52.5°	27.1	24.3	22.4	19.6	17.7	17.7	17.7	16.8
55°	14.0	14.0	14.0	14.0	13.1	13.1	13.1	12.1
57.5°	9.3	9.3	10.3	10.3	10.3	9.3	9.3	9.3
60°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
62.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
65°	3.7	4.7	4.7	4.7	4.7	3.7	3.7	3.7
67.5°	2.8	3.7	3.7	3.7	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	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)