

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: P274468

Luminaire Tested: **LDSQ6B15DE010W2N2050 EU6B1020W2N902050 6LBSQOLI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35088)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6B15DE010W2N2050 EU6B1020W2N902050 6LBSQ0LI
Description: PORTFOLIO 6" W2N SQ DOWNLIGHT WITH SPECULAR FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1352.5 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 0.94
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

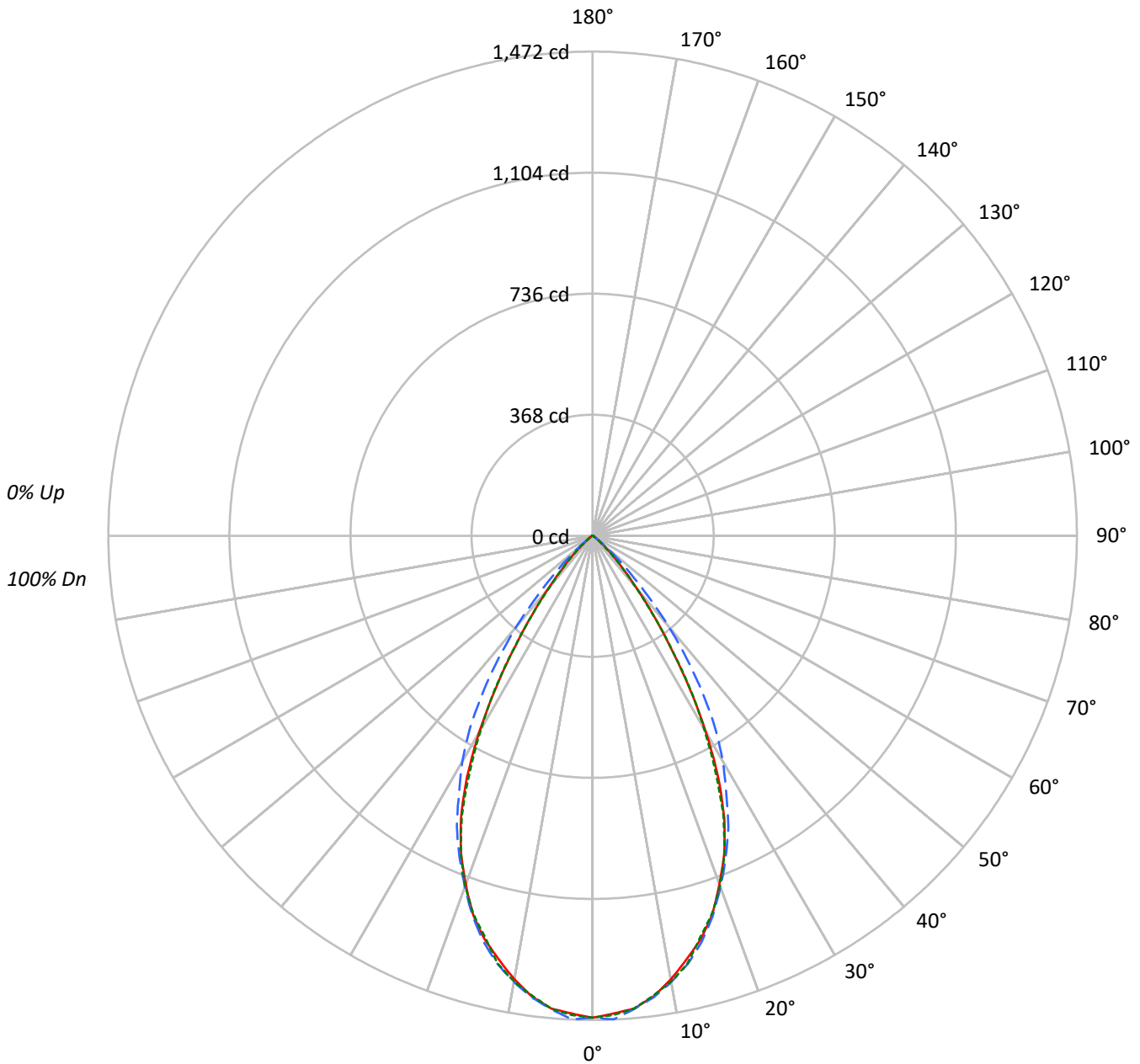
Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	84	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	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60																			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53																			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63077	63077	63077
5°	62354	62431	62354
10°	59857	60224	60141
15°	56587	57002	56298
20°	51642	52027	51899
25°	44970	46386	44661
30°	34195	39331	33688
35°	21524	30575	21724
40°	11612	20195	11404
45°	5498	9974	5444
50°	2056	3738	2056
55°	976	1186	908
60°	637	560	637
65°	377	377	377
70°	239	352	239
75°	150	150	150
80°	223	223	223
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	10.0
10°-20°	356.0	26.3
20°-30°	434.9	32.2
30°-40°	304.2	22.5
40°-50°	99.7	7.4
50°-60°	15.8	1.2
60°-70°	4.3	0.3
70°-80°	1.4	0.1
80°-90°	0.4	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°	926.7	68.5
0°-40°	1230.8	91.0
0°-60°	1346.3	99.5
0°-90°	1352.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1352.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1443	1443	1444	1436	1443	135
15°	1270	1275	1279	1270	1263	354
25°	947	961	976	959	940	425
35°	410	484	582	476	413	261
45°	90	111	164	110	89	76
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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CATALOG NUMBER: LDSQ6B15DE010W2N2050 EU6B1020W2N902050 6LBSQ0LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0
2.5°	1453.8	1464.1	1461.3	1467.8	1467.8	1460.3	1462.2	1465.0	1468.7	1471.5	1449.2
5°	1442.7	1452.0	1443.6	1452.9	1447.3	1438.9	1452.9	1445.4	1450.1	1444.5	1448.2
7.5°	1412.9	1427.8	1411.0	1422.2	1418.5	1413.8	1419.4	1417.5	1420.3	1415.7	1405.4
10°	1369.1	1381.2	1370.1	1385.9	1378.4	1373.8	1378.4	1383.1	1382.2	1377.5	1383.1
12.5°	1318.9	1332.8	1327.2	1336.6	1328.2	1328.2	1339.3	1336.6	1337.5	1333.8	1340.3
15°	1269.5	1279.8	1271.4	1283.5	1279.8	1269.5	1274.2	1274.2	1281.6	1278.8	1271.4
17.5°	1208.1	1216.5	1207.2	1210.0	1206.2	1204.4	1223.9	1210.9	1218.3	1212.8	1213.7
20°	1127.1	1130.9	1128.1	1135.5	1130.9	1136.4	1134.6	1132.7	1132.7	1135.5	1129.0
22.5°	1045.2	1045.2	1048.0	1049.9	1053.6	1048.0	1059.2	1049.9	1050.8	1057.3	1055.5
25°	946.6	943.8	950.3	959.6	963.3	958.7	973.6	966.1	971.7	976.4	966.1
27.5°	826.5	826.5	833.0	848.8	851.6	857.2	877.7	877.7	885.1	878.6	886.1
30°	687.8	698.1	706.4	726.9	733.4	745.5	766.9	777.2	793.9	791.1	787.4
32.5°	545.4	559.4	560.3	581.7	599.4	619.9	648.7	672.9	685.0	693.4	684.1
35°	409.5	417.9	425.4	440.2	470.0	497.0	523.1	554.7	576.1	581.7	573.3
37.5°	299.7	301.6	309.0	323.0	345.3	371.4	403.0	437.5	459.8	468.2	458.9
40°	206.6	208.5	212.2	224.3	242.9	261.5	286.7	322.0	342.5	359.3	347.2
42.5°	138.7	140.5	144.3	153.6	163.8	181.5	201.0	223.4	242.9	250.4	243.9
45°	90.3	90.3	92.1	98.7	104.2	118.2	132.2	146.1	159.2	163.8	159.2
47.5°	53.1	54.0	55.8	60.5	67.0	72.6	82.8	92.1	95.9	99.6	97.7
50°	30.7	30.7	33.5	36.3	41.0	44.7	48.4	52.1	54.0	55.8	54.0
52.5°	16.8	17.7	18.6	19.5	21.4	25.1	27.9	27.9	28.9	29.8	28.9
55°	13.0	13.0	13.0	13.0	14.0	14.0	14.0	14.9	14.9	15.8	14.9
57.5°	9.3	9.3	9.3	10.2	10.2	10.2	9.3	9.3	9.3	9.3	9.3
60°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	6.5	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	4.7	4.7	4.7	4.7	4.7	3.7	3.7	3.7	3.7
67.5°	2.8	2.8	2.8	2.8	3.7	3.7	2.8	2.8	2.8	2.8	2.8
70°	1.9	1.9	1.9	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	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0
2.5°	1465.0	1449.2	1451.0	1459.4	1454.8	1459.4	1458.5	1458.5
5°	1449.2	1444.5	1437.1	1434.3	1439.9	1452.0	1450.1	1442.7
7.5°	1419.4	1407.3	1415.7	1419.4	1414.7	1422.2	1425.9	1410.1
10°	1384.0	1379.4	1377.5	1379.4	1377.5	1384.9	1375.6	1375.6
12.5°	1333.8	1326.3	1326.3	1337.5	1331.0	1325.4	1332.8	1331.9
15°	1283.5	1268.6	1268.6	1272.3	1275.1	1271.4	1272.3	1263.0
17.5°	1209.0	1204.4	1197.9	1208.1	1210.9	1207.2	1210.0	1205.3
20°	1139.2	1139.2	1127.1	1131.8	1135.5	1138.3	1140.2	1132.7
22.5°	1049.9	1051.7	1043.4	1052.7	1055.5	1046.2	1048.0	1046.2
25°	968.0	967.0	960.5	956.8	958.7	954.9	954.0	940.1
27.5°	877.7	868.4	854.4	858.1	842.3	829.3	829.3	807.9
30°	780.0	764.1	745.5	726.9	713.0	698.1	689.7	677.6
32.5°	665.5	644.1	620.8	595.7	579.9	557.5	545.4	551.9
35°	551.9	520.3	488.6	463.5	439.3	426.3	411.4	413.3
37.5°	442.1	397.4	369.5	342.5	322.0	305.3	298.8	296.9
40°	323.0	287.6	259.7	240.1	226.2	213.1	205.7	202.9
42.5°	223.4	198.2	175.9	160.1	150.8	142.4	138.7	137.8
45°	145.2	130.3	115.4	104.2	96.8	91.2	90.3	89.4
47.5°	91.2	83.8	74.5	66.1	59.6	55.8	53.1	53.1
50°	52.1	49.3	44.7	40.0	36.3	34.4	31.6	30.7
52.5°	27.9	27.9	26.1	22.3	19.5	17.7	17.7	16.8
55°	14.9	14.9	14.0	14.0	13.0	13.0	13.0	12.1
57.5°	9.3	9.3	10.2	10.2	9.3	9.3	9.3	9.3
60°	6.5	7.4	7.4	7.4	7.4	7.4	7.4	7.4
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	2.8	2.8	2.8	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°	0.0	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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)