

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: P209461

Luminaire Tested: **LDSQ6B40D010 EU6B30509024 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209461
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: LDSQ6B40D010 EU6B30509024 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-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57 W DL3-44.71 W DLE-39.33 W
Light Source: HIGH LUMEN LED 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3269.1 lumens
Efficiency: N/A
Efficacy: 76.0 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

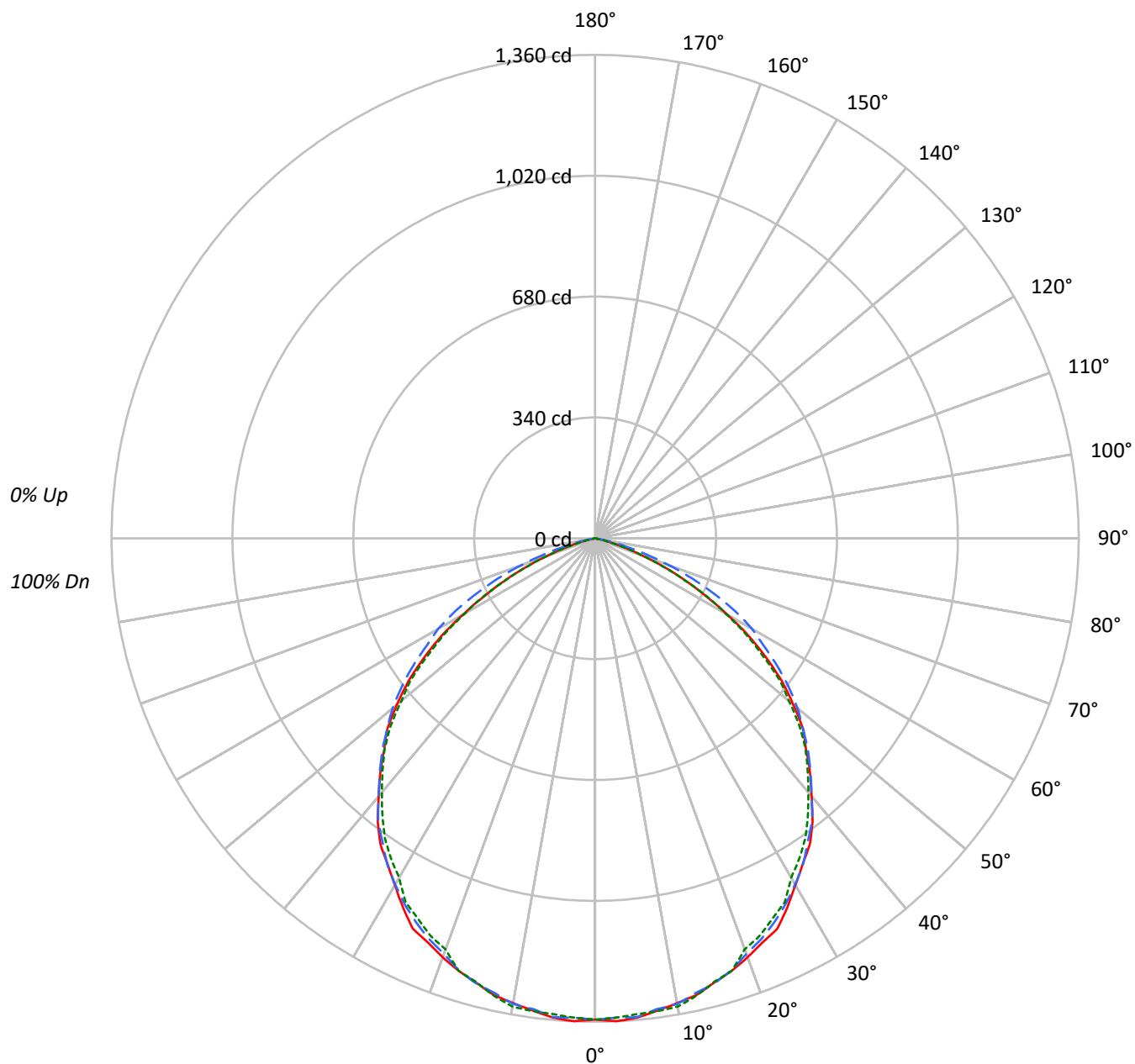
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10				0
RW	70	50	30	10	70	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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.9
10°-20°	365.2	11.2
20°-30°	549.5	16.8
30°-40°	650.0	19.9
40°-50°	648.7	19.8
50°-60°	537.9	16.5
60°-70°	314.3	9.6
70°-80°	74.8	2.3
80°-90°	0.5	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°	1042.7	31.9
0°-40°	1692.7	51.8
0°-60°	2879.4	88.1
0°-90°	3269.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3269.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1354	1347	1352	1348	1344	128
15°	1294	1293	1296	1290	1292	366
25°	1212	1198	1192	1188	1180	554
35°	1052	1042	1042	1036	1030	654
45°	839	840	847	838	837	649
55°	589	610	625	608	575	523
65°	278	313	368	312	276	276
75°	40	58	90	57	38	54
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1360.0	1352.0	1358.0	1346.0	1354.0	1346.0	1348.0	1344.0	1352.0	1350.0	1348.0
5°	1354.0	1356.0	1352.0	1356.0	1350.0	1344.0	1350.0	1346.0	1334.0	1352.0	1348.0
7.5°	1340.0	1342.0	1338.0	1344.0	1340.0	1332.0	1348.0	1336.0	1334.0	1336.0	1344.0
10°	1328.1	1332.0	1330.0	1328.1	1330.0	1330.0	1326.1	1320.1	1326.1	1330.0	1328.1
12.5°	1316.1	1322.1	1318.1	1314.1	1310.1	1312.1	1316.1	1306.1	1306.1	1310.1	1322.1
15°	1294.1	1298.1	1300.1	1292.1	1292.1	1294.1	1302.1	1286.1	1294.1	1296.1	1298.1
17.5°	1276.1	1278.1	1278.1	1272.1	1276.1	1270.1	1276.1	1268.1	1276.1	1274.1	1278.1
20°	1254.2	1258.2	1254.2	1254.2	1250.2	1252.2	1252.2	1252.2	1246.2	1244.2	1248.2
22.5°	1230.2	1230.2	1226.2	1230.2	1226.2	1224.2	1234.2	1218.2	1234.2	1220.2	1232.2
25°	1212.2	1202.2	1196.2	1194.2	1202.2	1194.2	1198.2	1192.2	1196.2	1192.2	1194.2
27.5°	1170.3	1164.3	1162.3	1164.3	1164.3	1162.3	1170.3	1148.3	1162.3	1160.3	1160.3
30°	1126.3	1126.3	1130.3	1126.3	1130.3	1124.3	1132.3	1114.4	1126.3	1124.3	1126.3
32.5°	1086.4	1088.4	1088.4	1092.4	1086.4	1088.4	1088.4	1082.4	1086.4	1088.4	1084.4
35°	1052.5	1042.5	1042.5	1042.5	1042.5	1042.5	1046.5	1040.5	1046.5	1042.5	1042.5
37.5°	1004.5	994.5	994.5	992.5	1002.5	996.5	1006.5	998.5	998.5	1002.5	1002.5
40°	946.6	950.6	944.6	952.6	950.6	942.6	960.6	948.6	956.6	946.6	954.6
42.5°	894.7	896.7	894.7	892.7	900.7	898.7	906.7	898.7	896.7	896.7	910.7
45°	838.8	838.8	838.8	844.8	838.8	840.8	848.8	844.8	848.8	846.8	860.7
47.5°	792.8	782.9	780.9	792.8	790.8	792.8	792.8	794.8	796.8	792.8	798.8
50°	726.9	722.9	722.9	724.9	726.9	730.9	736.9	740.9	736.9	742.9	744.9
52.5°	663.0	659.0	661.0	669.0	673.0	671.0	681.0	683.0	681.0	685.0	685.0
55°	589.1	585.1	591.1	601.1	607.1	613.1	623.1	615.1	623.1	625.1	627.1
57.5°	513.2	511.2	513.2	523.2	529.2	543.2	559.2	559.2	567.2	561.2	567.2
60°	429.4	429.4	437.4	443.3	459.3	469.3	485.3	493.3	501.3	509.3	505.3
62.5°	349.5	351.5	357.5	371.5	381.4	395.4	413.4	421.4	435.4	443.3	439.4
65°	277.6	277.6	281.6	293.6	303.6	321.5	337.5	355.5	363.5	367.5	369.5
67.5°	207.7	205.7	213.7	221.7	231.7	249.6	267.6	277.6	291.6	295.6	293.6
70°	139.8	141.8	145.8	153.8	165.8	179.7	199.7	207.7	215.7	219.7	215.7
72.5°	87.9	87.9	89.9	97.9	105.8	115.8	129.8	137.8	147.8	149.8	145.8
75°	39.9	39.9	43.9	47.9	53.9	61.9	71.9	77.9	83.9	89.9	89.9
77.5°	8.0	10.0	12.0	12.0	16.0	22.0	28.0	34.0	39.9	39.9	39.9
80°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	10.0	10.0	10.0
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1354.0	1366.0	1354.0	1348.0	1356.0	1354.0	1348.0	1350.0
5°	1348.0	1352.0	1356.0	1340.0	1350.0	1352.0	1348.0	1344.0
7.5°	1342.0	1344.0	1342.0	1338.0	1338.0	1338.0	1342.0	1342.0
10°	1340.0	1334.0	1324.1	1318.1	1324.1	1324.1	1322.1	1338.0
12.5°	1314.1	1322.1	1316.1	1304.1	1316.1	1314.1	1314.1	1318.1
15°	1294.1	1294.1	1298.1	1282.1	1290.1	1288.1	1288.1	1292.1
17.5°	1274.1	1274.1	1272.1	1268.1	1266.1	1272.1	1266.1	1276.1
20°	1246.2	1250.2	1262.1	1242.2	1248.2	1242.2	1242.2	1230.2
22.5°	1212.2	1232.2	1222.2	1220.2	1218.2	1220.2	1224.2	1210.2
25°	1190.3	1190.3	1194.2	1182.3	1182.3	1186.3	1184.3	1180.3
27.5°	1160.3	1158.3	1156.3	1152.3	1162.3	1154.3	1154.3	1154.3
30°	1118.4	1124.3	1122.4	1112.4	1124.3	1120.4	1114.4	1102.4
32.5°	1082.4	1090.4	1078.4	1076.4	1074.4	1076.4	1078.4	1068.4
35°	1038.5	1040.5	1040.5	1032.5	1034.5	1032.5	1028.5	1030.5
37.5°	998.5	996.5	986.6	982.6	984.6	984.6	986.6	982.6
40°	942.6	948.6	948.6	934.6	938.6	934.6	934.6	932.6
42.5°	896.7	898.7	892.7	886.7	886.7	884.7	880.7	884.7
45°	848.8	846.8	840.8	834.8	834.8	832.8	828.8	836.8
47.5°	794.8	790.8	788.8	780.9	780.9	768.9	770.9	778.9
50°	740.9	736.9	728.9	724.9	718.9	713.0	711.0	711.0
52.5°	677.0	677.0	669.0	661.0	659.0	655.0	651.0	653.0
55°	621.1	621.1	615.1	601.1	593.1	583.1	577.2	575.2
57.5°	557.2	553.2	541.2	525.2	517.2	509.3	503.3	503.3
60°	493.3	483.3	471.3	457.3	443.3	429.4	425.4	423.4
62.5°	423.4	413.4	391.4	375.4	365.5	357.5	349.5	355.5
65°	353.5	339.5	319.5	303.6	293.6	281.6	275.6	275.6
67.5°	279.6	265.6	245.6	229.7	219.7	211.7	203.7	203.7
70°	205.7	195.7	177.7	163.8	155.8	143.8	141.8	141.8
72.5°	139.8	127.8	113.8	103.8	95.9	87.9	83.9	81.9
75°	77.9	69.9	59.9	53.9	45.9	41.9	37.9	37.9
77.5°	32.0	26.0	20.0	16.0	12.0	10.0	8.0	10.0
80°	6.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
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



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— 0°-180° - - 45°-225° - - - 90°-270°









(END OF REPORT)