

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: P209470

Luminaire Tested: **LDSQ6B50D010 EU6B30508030 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209470
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: LDSQ6B50D010 EU6B30508030 6LBCSSQ1MMS
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE SHALLOW CAST METALLIC SILVER TRIM
MEDIUM DISTRIBUTION WITH MATTE METALLIC SILVER TRIM
D010TE
Light Source: HIGH LUMEN LED 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5773.3 lumens
Efficiency: N/A
Efficacy: 98.2 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

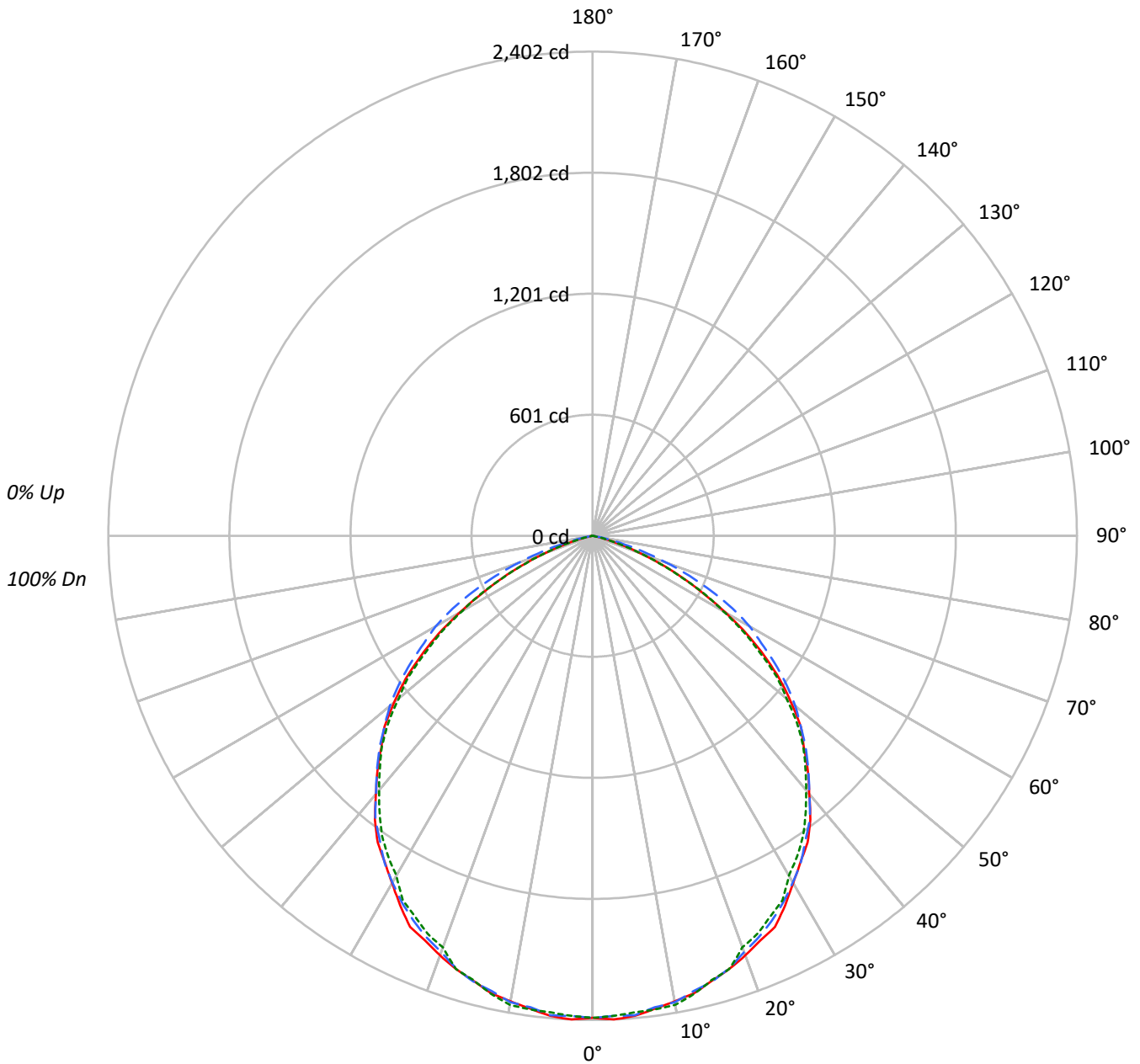
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	226.2	3.9
10°-20°	644.9	11.2
20°-30°	970.4	16.8
30°-40°	1148.0	19.9
40°-50°	1145.6	19.8
50°-60°	950.0	16.5
60°-70°	555.0	9.6
70°-80°	132.2	2.3
80°-90°	1.0	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°	1841.5	31.9
0°-40°	2989.5	51.8
0°-60°	5085.2	88.1
0°-90°	5773.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5773.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2391	2391	2391	2391	2391	
5°	2391	2379	2388	2381	2374	227
15°	2286	2284	2289	2278	2282	646
25°	2141	2116	2106	2099	2084	979
35°	1859	1841	1841	1830	1820	1156
45°	1481	1483	1495	1480	1478	1146
55°	1040	1078	1104	1074	1016	924
65°	490	552	649	550	487	487
75°	70	102	159	100	67	96
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°	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3
2.5°	2401.9	2387.7	2398.3	2377.2	2391.3	2377.2	2380.7	2373.6	2387.7	2384.2	2380.7
5°	2391.3	2394.8	2387.7	2394.8	2384.2	2373.6	2384.2	2377.2	2356.0	2387.7	2380.7
7.5°	2366.6	2370.1	2363.1	2373.6	2366.6	2352.5	2380.7	2359.5	2356.0	2359.5	2373.6
10°	2345.4	2352.5	2349.0	2345.4	2349.0	2349.0	2341.9	2331.3	2341.9	2349.0	2345.4
12.5°	2324.3	2334.8	2327.8	2320.7	2313.7	2317.2	2324.3	2306.6	2306.6	2313.7	2334.8
15°	2285.5	2292.5	2296.0	2281.9	2281.9	2285.5	2299.6	2271.4	2285.5	2289.0	2292.5
17.5°	2253.7	2257.3	2257.3	2246.7	2253.7	2243.1	2253.7	2239.6	2253.7	2250.2	2257.3
20°	2214.9	2222.0	2214.9	2214.9	2207.9	2211.4	2211.4	2211.4	2200.8	2197.3	2204.3
22.5°	2172.6	2172.6	2165.6	2172.6	2165.6	2162.0	2179.7	2151.4	2179.7	2155.0	2176.1
25°	2140.9	2123.2	2112.6	2109.1	2123.2	2109.1	2116.2	2105.6	2112.6	2105.6	2109.1
27.5°	2066.8	2056.2	2052.7	2056.2	2056.2	2052.7	2066.8	2028.0	2052.7	2049.2	2049.2
30°	1989.2	1989.2	1996.3	1989.2	1996.3	1985.7	1999.8	1968.0	1989.2	1985.7	1989.2
32.5°	1918.7	1922.2	1922.2	1929.2	1918.7	1922.2	1922.2	1911.6	1918.7	1922.2	1915.1
35°	1858.7	1841.1	1841.1	1841.1	1841.1	1841.1	1848.1	1837.5	1848.1	1841.1	1841.1
37.5°	1774.1	1756.4	1756.4	1752.9	1770.5	1760.0	1777.6	1763.5	1763.5	1770.5	1770.5
40°	1671.8	1678.8	1668.3	1682.4	1678.8	1664.7	1696.5	1675.3	1689.4	1671.8	1685.9
42.5°	1580.1	1583.6	1580.1	1576.5	1590.7	1587.1	1601.2	1587.1	1583.6	1583.6	1608.3
45°	1481.3	1481.3	1481.3	1491.9	1481.3	1484.8	1499.0	1491.9	1499.0	1495.4	1520.1
47.5°	1400.2	1382.6	1379.0	1400.2	1396.7	1400.2	1400.2	1403.7	1407.3	1400.2	1410.8
50°	1283.8	1276.8	1276.8	1280.3	1283.8	1290.9	1301.4	1308.5	1301.4	1312.0	1315.6
52.5°	1170.9	1163.9	1167.4	1181.5	1188.6	1185.1	1202.7	1206.2	1202.7	1209.7	1209.7
55°	1040.5	1033.4	1044.0	1061.6	1072.2	1082.8	1100.4	1086.3	1100.4	1103.9	1107.5
57.5°	906.4	902.9	906.4	924.1	934.6	959.3	987.5	987.5	1001.7	991.1	1001.7
60°	758.3	758.3	772.4	783.0	811.2	828.8	857.1	871.2	885.3	899.4	892.3
62.5°	617.2	620.7	631.3	656.0	673.6	698.3	730.1	744.2	768.9	783.0	775.9
65°	490.2	490.2	497.3	518.5	536.1	567.8	596.1	627.8	641.9	649.0	652.5
67.5°	366.8	363.3	377.4	391.5	409.1	440.9	472.6	490.2	514.9	522.0	518.5
70°	246.9	250.4	257.5	271.6	292.7	317.4	352.7	366.8	380.9	388.0	380.9
72.5°	155.2	155.2	158.7	172.8	186.9	204.6	229.3	243.4	261.0	264.5	257.5
75°	70.5	70.5	77.6	84.6	95.2	109.3	127.0	137.6	148.1	158.7	158.7
77.5°	14.1	17.6	21.2	21.2	28.2	38.8	49.4	60.0	70.5	70.5	70.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	7.1	10.6	17.6	17.6	17.6
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°	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3	2391.3
2.5°	2391.3	2412.4	2391.3	2380.7	2394.8	2391.3	2380.7	2384.2
5°	2380.7	2387.7	2394.8	2366.6	2384.2	2387.7	2380.7	2373.6
7.5°	2370.1	2373.6	2370.1	2363.1	2363.1	2363.1	2370.1	2370.1
10°	2366.6	2356.0	2338.4	2327.8	2338.4	2338.4	2334.8	2363.1
12.5°	2320.7	2334.8	2324.3	2303.1	2324.3	2320.7	2320.7	2327.8
15°	2285.5	2285.5	2292.5	2264.3	2278.4	2274.9	2274.9	2281.9
17.5°	2250.2	2250.2	2246.7	2239.6	2236.1	2246.7	2236.1	2253.7
20°	2200.8	2207.9	2229.0	2193.8	2204.3	2193.8	2193.8	2172.6
22.5°	2140.9	2176.1	2158.5	2155.0	2151.4	2155.0	2162.0	2137.3
25°	2102.1	2102.1	2109.1	2088.0	2088.0	2095.0	2091.5	2084.4
27.5°	2049.2	2045.6	2042.1	2035.1	2052.7	2038.6	2038.6	2038.6
30°	1975.1	1985.7	1982.1	1964.5	1985.7	1978.6	1968.0	1946.9
32.5°	1911.6	1925.7	1904.6	1901.0	1897.5	1901.0	1904.6	1886.9
35°	1834.0	1837.5	1837.5	1823.4	1827.0	1823.4	1816.4	1819.9
37.5°	1763.5	1760.0	1742.3	1735.3	1738.8	1738.8	1742.3	1735.3
40°	1664.7	1675.3	1675.3	1650.6	1657.7	1650.6	1650.6	1647.1
42.5°	1583.6	1587.1	1576.5	1566.0	1566.0	1562.4	1555.4	1562.4
45°	1499.0	1495.4	1484.8	1474.3	1474.3	1470.7	1463.7	1477.8
47.5°	1403.7	1396.7	1393.1	1379.0	1379.0	1357.9	1361.4	1375.5
50°	1308.5	1301.4	1287.3	1280.3	1269.7	1259.1	1255.6	1255.6
52.5°	1195.6	1195.6	1181.5	1167.4	1163.9	1156.8	1149.8	1153.3
55°	1096.9	1096.9	1086.3	1061.6	1047.5	1029.9	1019.3	1015.8
57.5°	984.0	977.0	955.8	927.6	913.5	899.4	888.8	888.8
60°	871.2	853.5	832.4	807.7	783.0	758.3	751.2	747.7
62.5°	747.7	730.1	691.3	663.1	645.4	631.3	617.2	627.8
65°	624.3	599.6	564.3	536.1	518.5	497.3	486.7	486.7
67.5°	493.8	469.1	433.8	405.6	388.0	373.9	359.7	359.7
70°	363.3	345.6	313.9	289.2	275.1	253.9	250.4	250.4
72.5°	246.9	225.7	201.0	183.4	169.3	155.2	148.1	144.6
75°	137.6	123.4	105.8	95.2	81.1	74.1	67.0	67.0
77.5°	56.4	45.9	35.3	28.2	21.2	17.6	14.1	17.6
80°	10.6	7.1	3.5	3.5	3.5	3.5	3.5	3.5
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)