

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: P209492

Luminaire Tested: **LDSQ6B60D010 EU6B60709050 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209492
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: LDSQ6B60D010 EU6B60709050 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 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5692.3 lumens
Efficiency: N/A
Efficacy: 91.1 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

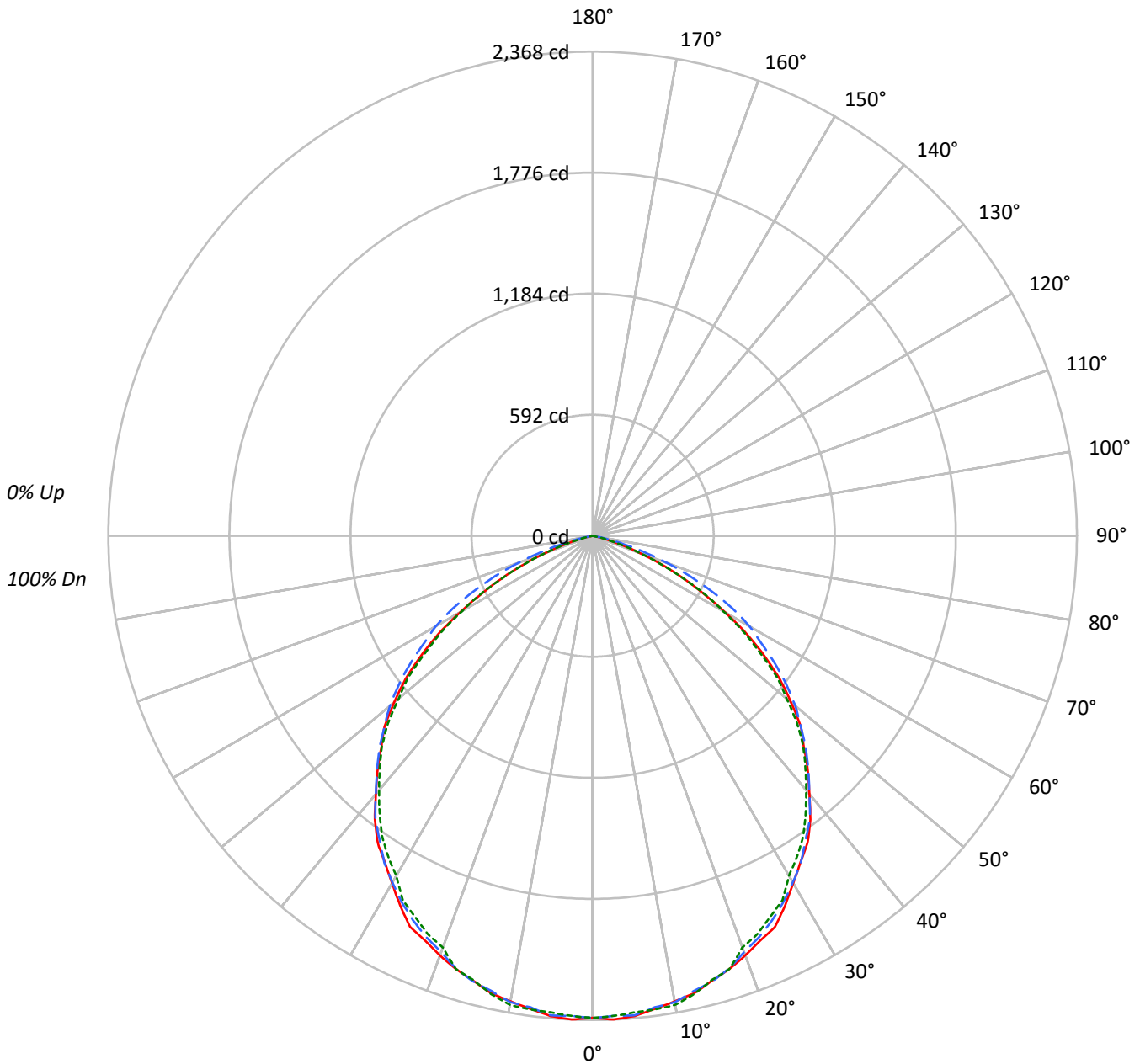
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75				75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56				56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				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°	223.0	3.9
10°-20°	635.9	11.2
20°-30°	956.8	16.8
30°-40°	1131.9	19.9
40°-50°	1129.6	19.8
50°-60°	936.7	16.5
60°-70°	547.3	9.6
70°-80°	130.3	2.3
80°-90°	0.9	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°	1815.6	31.9
0°-40°	2947.5	51.8
0°-60°	5013.8	88.1
0°-90°	5692.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5692.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2358	2346	2354	2347	2340	223
15°	2253	2252	2257	2246	2250	637
25°	2111	2086	2076	2069	2055	965
35°	1833	1815	1815	1805	1794	1139
45°	1460	1462	1474	1459	1457	1130
55°	1026	1062	1088	1059	1002	911
65°	483	544	640	542	480	481
75°	70	101	156	99	66	94
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°	2357.7	2357.7	2357.7	2357.7	2357.7	2357.7	2357.7	2357.7	2357.7	2357.7	2357.7
2.5°	2368.1	2354.2	2364.7	2343.8	2357.7	2343.8	2347.3	2340.3	2354.2	2350.8	2347.3
5°	2357.7	2361.2	2354.2	2361.2	2350.8	2340.3	2350.8	2343.8	2322.9	2354.2	2347.3
7.5°	2333.4	2336.8	2329.9	2340.3	2333.4	2319.5	2347.3	2326.4	2322.9	2326.4	2340.3
10°	2312.5	2319.5	2316.0	2312.5	2316.0	2316.0	2309.0	2298.6	2309.0	2316.0	2312.5
12.5°	2291.6	2302.1	2295.1	2288.2	2281.2	2284.7	2291.6	2274.2	2274.2	2281.2	2302.1
15°	2253.4	2260.3	2263.8	2249.9	2249.9	2253.4	2267.3	2239.5	2253.4	2256.9	2260.3
17.5°	2222.1	2225.6	2225.6	2215.1	2222.1	2211.7	2222.1	2208.2	2222.1	2218.6	2225.6
20°	2183.8	2190.8	2183.8	2183.8	2176.9	2180.4	2180.4	2180.4	2169.9	2166.4	2173.4
22.5°	2142.1	2142.1	2135.2	2142.1	2135.2	2131.7	2149.1	2121.2	2149.1	2124.7	2145.6
25°	2110.8	2093.4	2083.0	2079.5	2093.4	2079.5	2086.5	2076.0	2083.0	2076.0	2079.5
27.5°	2037.8	2027.3	2023.9	2027.3	2027.3	2023.9	2037.8	1999.5	2023.9	2020.4	2020.4
30°	1961.3	1961.3	1968.2	1961.3	1968.2	1957.8	1971.7	1940.4	1961.3	1957.8	1961.3
32.5°	1891.7	1895.2	1895.2	1902.2	1891.7	1895.2	1895.2	1884.8	1891.7	1895.2	1888.3
35°	1832.6	1815.2	1815.2	1815.2	1815.2	1815.2	1822.2	1811.7	1822.2	1815.2	1815.2
37.5°	1749.2	1731.8	1731.8	1728.3	1745.7	1735.2	1752.6	1738.7	1738.7	1745.7	1745.7
40°	1648.3	1655.3	1644.8	1658.7	1655.3	1641.4	1672.7	1651.8	1665.7	1648.3	1662.2
42.5°	1557.9	1561.4	1557.9	1554.4	1568.3	1564.8	1578.8	1564.8	1561.4	1561.4	1585.7
45°	1460.5	1460.5	1460.5	1471.0	1460.5	1464.0	1477.9	1471.0	1477.9	1474.4	1498.8
47.5°	1380.5	1363.2	1359.7	1380.5	1377.1	1380.5	1380.5	1384.0	1387.5	1380.5	1391.0
50°	1265.8	1258.8	1258.8	1262.3	1265.8	1272.7	1283.2	1290.1	1283.2	1293.6	1297.1
52.5°	1154.5	1147.6	1151.0	1164.9	1171.9	1168.4	1185.8	1189.3	1185.8	1192.8	1192.8
55°	1025.8	1018.9	1029.3	1046.7	1057.1	1067.6	1085.0	1071.1	1085.0	1088.4	1091.9
57.5°	893.7	890.2	893.7	911.1	921.5	945.9	973.7	973.7	987.6	977.2	987.6
60°	747.7	747.7	761.6	772.0	799.8	817.2	845.0	858.9	872.8	886.7	879.8
62.5°	608.6	612.0	622.5	646.8	664.2	688.5	719.8	733.7	758.1	772.0	765.0
65°	483.4	483.4	490.3	511.2	528.6	559.9	587.7	619.0	632.9	639.8	643.3
67.5°	361.7	358.2	372.1	386.0	403.4	434.7	466.0	483.4	507.7	514.7	511.2
70°	243.4	246.9	253.9	267.8	288.6	313.0	347.7	361.7	375.6	382.5	375.6
72.5°	153.0	153.0	156.5	170.4	184.3	201.7	226.0	239.9	257.3	260.8	253.9
75°	69.5	69.5	76.5	83.5	93.9	107.8	125.2	135.6	146.1	156.5	156.5
77.5°	13.9	17.4	20.9	20.9	27.8	38.3	48.7	59.1	69.5	69.5	69.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	7.0	10.4	17.4	17.4	17.4
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°	2357.7	2357.7	2357.7	2357.7	2357.7	2357.7	2357.7	2357.7
2.5°	2357.7	2378.6	2357.7	2347.3	2361.2	2357.7	2347.3	2350.8
5°	2347.3	2354.2	2361.2	2333.4	2350.8	2354.2	2347.3	2340.3
7.5°	2336.8	2340.3	2336.8	2329.9	2329.9	2329.9	2336.8	2336.8
10°	2333.4	2322.9	2305.5	2295.1	2305.5	2305.5	2302.1	2329.9
12.5°	2288.2	2302.1	2291.6	2270.8	2291.6	2288.2	2288.2	2295.1
15°	2253.4	2253.4	2260.3	2232.5	2246.4	2243.0	2243.0	2249.9
17.5°	2218.6	2218.6	2215.1	2208.2	2204.7	2215.1	2204.7	2222.1
20°	2169.9	2176.9	2197.7	2163.0	2173.4	2163.0	2163.0	2142.1
22.5°	2110.8	2145.6	2128.2	2124.7	2121.2	2124.7	2131.7	2107.3
25°	2072.6	2072.6	2079.5	2058.6	2058.6	2065.6	2062.1	2055.2
27.5°	2020.4	2016.9	2013.4	2006.5	2023.9	2010.0	2010.0	2010.0
30°	1947.4	1957.8	1954.3	1936.9	1957.8	1950.8	1940.4	1919.5
32.5°	1884.8	1898.7	1877.8	1874.3	1870.9	1874.3	1877.8	1860.4
35°	1808.3	1811.7	1811.7	1797.8	1801.3	1797.8	1790.9	1794.4
37.5°	1738.7	1735.2	1717.9	1710.9	1714.4	1714.4	1717.9	1710.9
40°	1641.4	1651.8	1651.8	1627.4	1634.4	1627.4	1627.4	1624.0
42.5°	1561.4	1564.8	1554.4	1544.0	1544.0	1540.5	1533.6	1540.5
45°	1477.9	1474.4	1464.0	1453.6	1453.6	1450.1	1443.1	1457.0
47.5°	1384.0	1377.1	1373.6	1359.7	1359.7	1338.8	1342.3	1356.2
50°	1290.1	1283.2	1269.3	1262.3	1251.9	1241.4	1238.0	1238.0
52.5°	1178.9	1178.9	1164.9	1151.0	1147.6	1140.6	1133.6	1137.1
55°	1081.5	1081.5	1071.1	1046.7	1032.8	1015.4	1005.0	1001.5
57.5°	970.2	963.3	942.4	914.6	900.7	886.7	876.3	876.3
60°	858.9	841.5	820.7	796.3	772.0	747.7	740.7	737.2
62.5°	737.2	719.8	681.6	653.8	636.4	622.5	608.6	619.0
65°	615.5	591.2	556.4	528.6	511.2	490.3	479.9	479.9
67.5°	486.8	462.5	427.7	399.9	382.5	368.6	354.7	354.7
70°	358.2	340.8	309.5	285.2	271.2	250.4	246.9	246.9
72.5°	243.4	222.6	198.2	180.8	166.9	153.0	146.1	142.6
75°	135.6	121.7	104.3	93.9	80.0	73.0	66.1	66.1
77.5°	55.6	45.2	34.8	27.8	20.9	17.4	13.9	17.4
80°	10.4	7.0	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)