

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: P209347

Luminaire Tested: **LDSQ6B30D010 EU6B30509024 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209347
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: LDSQ6B30D010 EU6B30509024 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W
DL3-29.67 W DLE-29.73 W
Light Source: HIGH LUMEN LED 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2107.4 lumens
Efficiency: N/A
Efficacy: 75.3 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

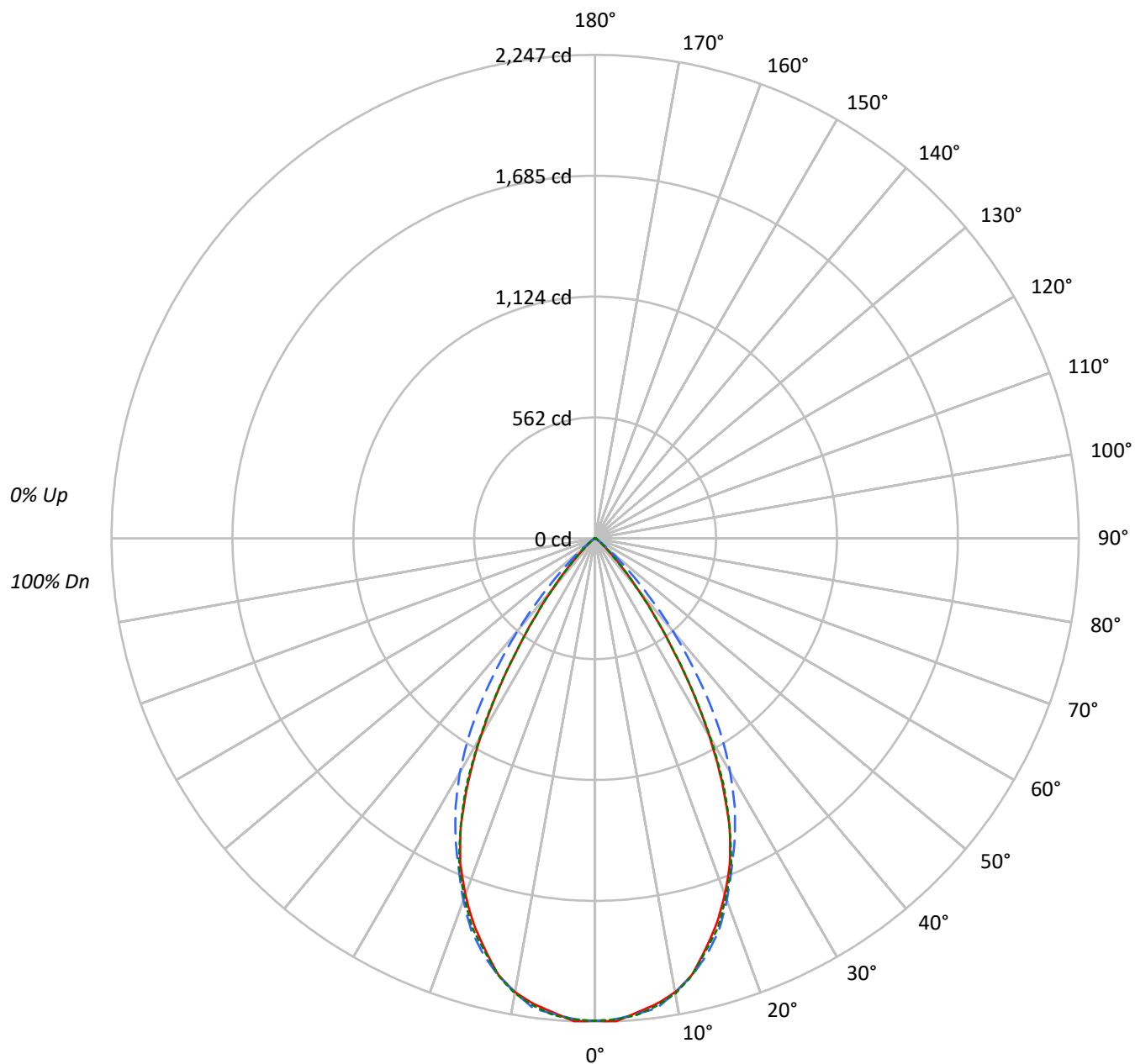
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	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°	210.0	10.0
10°-20°	558.5	26.5
20°-30°	685.4	32.5
30°-40°	473.2	22.5
40°-50°	147.9	7.0
50°-60°	23.1	1.1
60°-70°	6.7	0.3
70°-80°	2.2	0.1
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°	1453.9	69.0
0°-40°	1927.1	91.4
0°-60°	2098.1	99.6
0°-90°	2107.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2107.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2243	2243	2243	2243	2243	
5°	2213	2221	2219	2219	2224	209
15°	1978	2007	2004	2001	1985	553
25°	1477	1515	1535	1525	1478	662
35°	623	737	914	744	626	398
45°	117	160	257	159	120	105
55°	20	21	24	21	18	19
65°	6	7	6	7	6	6
75°	1	1	1	1	1	2
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°	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6
2.5°	2246.9	2215.8	2235.6	2231.3	2242.6	2249.7	2242.6	2255.4	2246.9	2237.0	2239.8
5°	2213.0	2217.2	2215.8	2218.6	2221.4	2221.4	2235.6	2237.0	2239.8	2218.6	2224.3
7.5°	2183.3	2183.3	2190.3	2187.5	2197.4	2194.6	2196.0	2207.3	2208.7	2203.1	2198.8
10°	2142.3	2136.6	2129.6	2129.6	2142.3	2143.7	2155.0	2156.4	2164.9	2142.3	2145.1
12.5°	2078.7	2075.9	2064.6	2070.2	2080.1	2074.5	2092.8	2094.3	2091.4	2081.5	2087.2
15°	1978.4	1989.7	1986.9	1985.4	2008.1	2005.2	2003.8	2008.1	2009.5	2003.8	1999.6
17.5°	1878.0	1887.9	1889.4	1892.2	1896.4	1900.7	1906.3	1921.9	1916.2	1912.0	1926.1
20°	1762.2	1757.9	1769.2	1780.5	1784.8	1784.8	1793.3	1804.6	1796.1	1790.4	1791.8
22.5°	1636.4	1643.5	1637.8	1649.1	1654.8	1661.8	1670.3	1680.2	1673.1	1657.6	1676.0
25°	1476.7	1481.0	1499.3	1497.9	1506.4	1523.4	1536.1	1536.1	1536.1	1534.7	1534.7
27.5°	1276.1	1273.2	1295.8	1311.4	1332.6	1359.4	1376.4	1403.2	1407.5	1403.2	1393.3
30°	1061.3	1058.4	1086.7	1106.5	1144.6	1157.4	1204.0	1229.4	1256.3	1254.9	1247.8
32.5°	838.0	843.6	866.2	894.5	925.6	965.2	1009.0	1065.5	1089.5	1095.2	1082.5
35°	623.2	631.7	652.9	676.9	715.0	758.8	819.6	873.3	914.3	914.3	904.4
37.5°	449.4	452.2	472.0	487.5	527.1	566.7	618.9	692.4	717.9	727.8	717.9
40°	306.6	306.6	318.0	334.9	367.4	401.3	449.4	504.5	541.2	556.8	539.8
42.5°	195.0	197.8	206.3	217.6	241.6	271.3	308.1	349.0	375.9	387.2	371.7
45°	117.3	120.1	127.2	135.7	151.2	169.6	195.0	224.7	247.3	257.2	250.1
47.5°	70.7	73.5	76.3	82.0	93.3	106.0	118.7	135.7	149.8	151.2	148.4
50°	41.0	41.0	43.8	48.0	53.7	60.8	67.8	77.7	82.0	87.6	82.0
52.5°	26.8	26.8	26.8	28.3	31.1	33.9	36.7	42.4	45.2	45.2	43.8
55°	19.8	19.8	19.8	19.8	21.2	21.2	21.2	22.6	24.0	24.0	24.0
57.5°	14.1	14.1	14.1	15.5	15.5	15.5	14.1	14.1	14.1	14.1	14.1
60°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	9.9	9.9	9.9
62.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
65°	5.7	5.7	5.7	7.1	7.1	7.1	7.1	5.7	5.7	5.7	5.7
67.5°	4.2	4.2	4.2	5.7	5.7	5.7	5.7	5.7	4.2	4.2	4.2
70°	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6	2242.6
2.5°	2248.3	2241.2	2241.2	2241.2	2238.4	2241.2	2245.5	2238.4
5°	2224.3	2227.1	2214.4	2224.3	2228.5	2221.4	2238.4	2224.3
7.5°	2203.1	2198.8	2179.0	2193.2	2201.7	2204.5	2203.1	2191.8
10°	2160.7	2150.8	2142.3	2142.3	2139.5	2138.1	2153.6	2148.0
12.5°	2084.4	2091.4	2078.7	2085.8	2080.1	2081.5	2082.9	2080.1
15°	2019.4	2012.3	1995.3	2006.6	1999.6	1992.5	2006.6	1985.4
17.5°	1917.6	1916.2	1906.3	1899.2	1902.1	1900.7	1907.7	1897.8
20°	1797.5	1800.3	1794.7	1791.8	1787.6	1777.7	1786.2	1774.9
22.5°	1667.5	1670.3	1676.0	1664.7	1666.1	1651.9	1664.7	1651.9
25°	1536.1	1534.7	1527.6	1521.9	1506.4	1490.8	1488.0	1478.1
27.5°	1391.9	1382.0	1365.1	1346.7	1322.7	1301.5	1300.1	1293.0
30°	1233.7	1212.5	1181.4	1151.7	1115.0	1082.5	1082.5	1071.2
32.5°	1066.9	1018.9	976.5	939.7	891.7	873.3	854.9	845.0
35°	867.7	825.3	774.4	713.6	691.0	645.8	648.6	626.0
37.5°	679.7	627.4	579.4	529.9	490.4	469.2	457.9	446.5
40°	504.5	453.6	401.3	368.8	333.5	315.1	308.1	305.2
42.5°	344.8	302.4	268.5	241.6	223.3	203.5	197.8	195.0
45°	224.7	200.7	169.6	148.4	135.7	124.4	124.4	120.1
47.5°	134.2	118.7	103.2	89.0	80.5	73.5	70.7	69.2
50°	74.9	66.4	57.9	52.3	46.6	42.4	41.0	41.0
52.5°	41.0	36.7	33.9	29.7	26.8	26.8	26.8	25.4
55°	21.2	21.2	21.2	21.2	19.8	19.8	19.8	18.4
57.5°	14.1	14.1	15.5	15.5	15.5	14.1	14.1	14.1
60°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
62.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
65°	5.7	7.1	7.1	7.1	7.1	5.7	5.7	5.7
67.5°	4.2	5.7	5.7	5.7	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	2.8	2.8	2.8
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	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)