

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: P209354

Luminaire Tested: **LDSQ6B30D010 EU6B30509730 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209354
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 EU6B30509730 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 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2177.2 lumens
Efficiency: N/A
Efficacy: 77.8 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

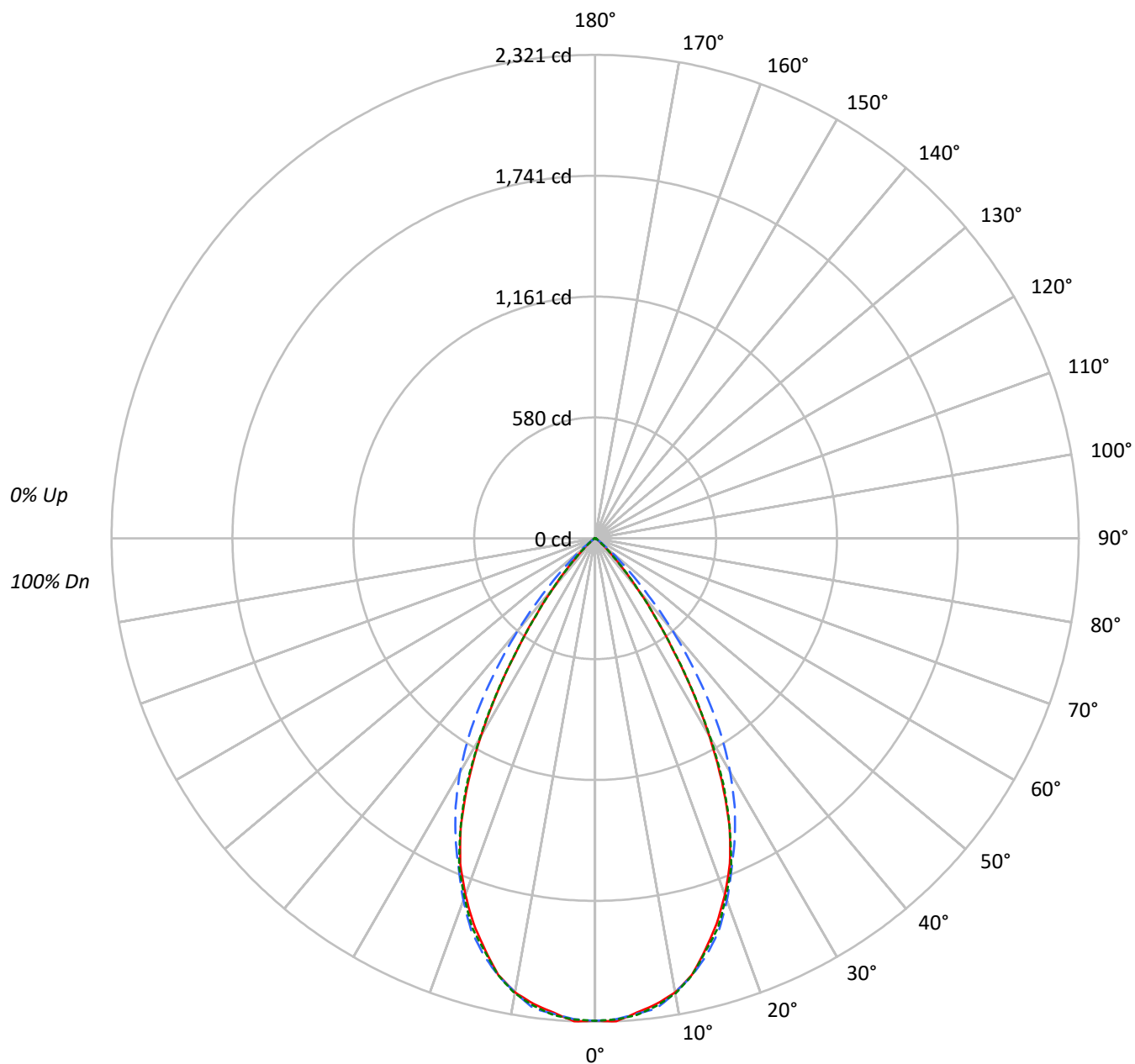
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	216.9	10.0
10°-20°	577.0	26.5
20°-30°	708.1	32.5
30°-40°	488.8	22.5
40°-50°	152.8	7.0
50°-60°	23.9	1.1
60°-70°	6.9	0.3
70°-80°	2.3	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°	1502.0	69.0
0°-40°	1990.8	91.4
0°-60°	2167.5	99.6
0°-90°	2177.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2177.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2317	2317	2317	2317	2317	
5°	2286	2295	2292	2293	2298	216
15°	2044	2073	2070	2067	2051	572
25°	1526	1565	1585	1575	1527	684
35°	644	761	944	769	647	411
45°	121	166	266	164	124	109
55°	20	22	25	22	19	20
65°	6	7	6	7	6	6
75°	2	2	2	2	2	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°	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8
2.5°	2321.2	2289.0	2309.5	2305.1	2316.8	2324.1	2316.8	2329.9	2321.2	2310.9	2313.9
5°	2286.1	2290.5	2289.0	2292.0	2294.9	2294.9	2309.5	2310.9	2313.9	2292.0	2297.8
7.5°	2255.5	2255.5	2262.8	2259.8	2270.1	2267.1	2268.6	2280.3	2281.7	2275.9	2271.5
10°	2213.1	2207.3	2200.0	2200.0	2213.1	2214.6	2226.3	2227.7	2236.5	2213.1	2216.1
12.5°	2147.4	2144.5	2132.8	2138.7	2148.9	2143.1	2162.0	2163.5	2160.6	2150.4	2156.2
15°	2043.8	2055.5	2052.6	2051.1	2074.4	2071.5	2070.1	2074.4	2075.9	2070.1	2065.7
17.5°	1940.1	1950.4	1951.8	1954.7	1959.1	1963.5	1969.3	1985.4	1979.6	1975.2	1989.8
20°	1820.4	1816.1	1827.7	1839.4	1843.8	1843.8	1852.6	1864.2	1855.5	1849.6	1851.1
22.5°	1690.5	1697.8	1692.0	1703.6	1709.5	1716.8	1725.5	1735.8	1728.5	1712.4	1731.4
25°	1525.5	1529.9	1548.9	1547.4	1556.2	1573.7	1586.9	1586.9	1586.9	1585.4	1585.4
27.5°	1318.2	1315.3	1338.7	1354.7	1376.6	1404.4	1421.9	1449.6	1454.0	1449.6	1439.4
30°	1096.3	1093.4	1122.6	1143.1	1182.5	1195.6	1243.8	1270.1	1297.8	1296.3	1289.0
32.5°	865.7	871.5	894.9	924.1	956.2	997.1	1042.3	1100.7	1125.5	1131.4	1118.2
35°	643.8	652.6	674.5	699.3	738.7	783.9	846.7	902.2	944.5	944.5	934.3
37.5°	464.2	467.2	487.6	503.6	544.5	585.4	639.4	715.3	741.6	751.8	741.6
40°	316.8	316.8	328.5	346.0	379.6	414.6	464.2	521.2	559.1	575.2	557.7
42.5°	201.5	204.4	213.1	224.8	249.6	280.3	318.2	360.6	388.3	400.0	383.9
45°	121.2	124.1	131.4	140.1	156.2	175.2	201.5	232.1	255.5	265.7	258.4
47.5°	73.0	75.9	78.8	84.7	96.4	109.5	122.6	140.1	154.7	156.2	153.3
50°	42.3	42.3	45.3	49.6	55.5	62.8	70.1	80.3	84.7	90.5	84.7
52.5°	27.7	27.7	27.7	29.2	32.1	35.0	38.0	43.8	46.7	46.7	45.3
55°	20.4	20.4	20.4	20.4	21.9	21.9	21.9	23.4	24.8	24.8	24.8
57.5°	14.6	14.6	14.6	16.1	16.1	16.1	14.6	14.6	14.6	14.6	14.6
60°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	10.2	10.2	10.2
62.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
65°	5.8	5.8	5.8	7.3	7.3	7.3	7.3	5.8	5.8	5.8	5.8
67.5°	4.4	4.4	4.4	5.8	5.8	5.8	5.8	5.8	4.4	4.4	4.4
70°	2.9	2.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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°	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8	2316.8
2.5°	2322.6	2315.3	2315.3	2315.3	2312.4	2315.3	2319.7	2312.4
5°	2297.8	2300.7	2287.6	2297.8	2302.2	2294.9	2312.4	2297.8
7.5°	2275.9	2271.5	2251.1	2265.7	2274.4	2277.4	2275.9	2264.2
10°	2232.1	2221.9	2213.1	2213.1	2210.2	2208.8	2224.8	2219.0
12.5°	2153.3	2160.6	2147.4	2154.7	2148.9	2150.4	2151.8	2148.9
15°	2086.1	2078.8	2061.3	2073.0	2065.7	2058.4	2073.0	2051.1
17.5°	1981.0	1979.6	1969.3	1962.0	1965.0	1963.5	1970.8	1960.6
20°	1856.9	1859.9	1854.0	1851.1	1846.7	1836.5	1845.3	1833.6
22.5°	1722.6	1725.5	1731.4	1719.7	1721.2	1706.6	1719.7	1706.6
25°	1586.9	1585.4	1578.1	1572.3	1556.2	1540.1	1537.2	1527.0
27.5°	1438.0	1427.7	1410.2	1391.2	1366.4	1344.5	1343.1	1335.8
30°	1274.5	1252.6	1220.4	1189.8	1151.8	1118.2	1118.2	1106.6
32.5°	1102.2	1052.6	1008.8	970.8	921.2	902.2	883.2	873.0
35°	896.3	852.6	800.0	737.2	713.9	667.2	670.1	646.7
37.5°	702.2	648.2	598.5	547.4	506.6	484.7	473.0	461.3
40°	521.2	468.6	414.6	381.0	344.5	325.5	318.2	315.3
42.5°	356.2	312.4	277.4	249.6	230.7	210.2	204.4	201.5
45°	232.1	207.3	175.2	153.3	140.1	128.5	128.5	124.1
47.5°	138.7	122.6	106.6	92.0	83.2	75.9	73.0	71.5
50°	77.4	68.6	59.9	54.0	48.2	43.8	42.3	42.3
52.5°	42.3	38.0	35.0	30.7	27.7	27.7	27.7	26.3
55°	21.9	21.9	21.9	21.9	20.4	20.4	20.4	19.0
57.5°	14.6	14.6	16.1	16.1	16.1	14.6	14.6	14.6
60°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
62.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
65°	5.8	7.3	7.3	7.3	7.3	5.8	5.8	5.8
67.5°	4.4	5.8	5.8	5.8	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.4	4.4	4.4	2.9	2.9	2.9
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	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)