

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: P209349

Luminaire Tested: **LDSQ6B30D010 EU6B30509030 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209349
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 EU6B30509030 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: 2490.7 lumens
Efficiency: N/A
Efficacy: 89.0 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

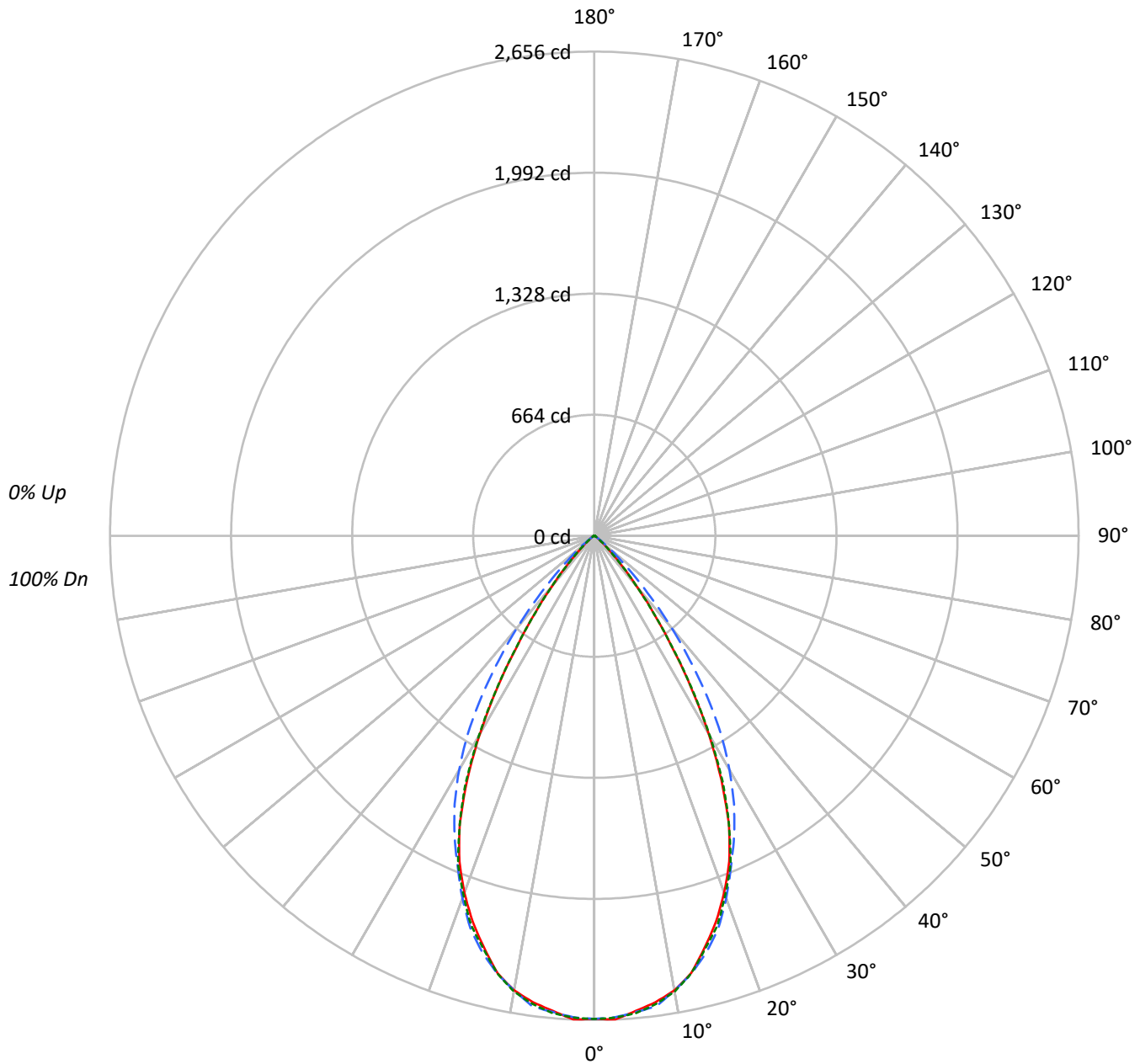
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	248.1	10.0
10°-20°	660.1	26.5
20°-30°	810.1	32.5
30°-40°	559.2	22.5
40°-50°	174.8	7.0
50°-60°	27.3	1.1
60°-70°	7.9	0.3
70°-80°	2.6	0.1
80°-90°	0.6	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°	1718.3	69.0
0°-40°	2277.5	91.4
0°-60°	2479.7	99.6
0°-90°	2490.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2490.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2650	2650	2650	2650	2650	
5°	2615	2625	2622	2623	2629	247
15°	2338	2372	2368	2365	2346	654
25°	1745	1790	1814	1802	1747	782
35°	736	871	1081	879	740	471
45°	139	190	304	188	142	124
55°	23	25	28	25	22	23
65°	7	8	7	8	7	7
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°	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5
2.5°	2655.5	2618.7	2642.1	2637.1	2650.5	2658.8	2650.5	2665.5	2655.5	2643.8	2647.1
5°	2615.4	2620.4	2618.7	2622.1	2625.4	2625.4	2642.1	2643.8	2647.1	2622.1	2628.8
7.5°	2580.3	2580.3	2588.7	2585.3	2597.0	2593.7	2595.4	2608.7	2610.4	2603.7	2598.7
10°	2531.9	2525.2	2516.9	2516.9	2531.9	2533.6	2546.9	2548.6	2558.6	2531.9	2535.2
12.5°	2456.7	2453.4	2440.0	2446.7	2458.4	2451.7	2473.4	2475.1	2471.8	2460.1	2466.8
15°	2338.2	2351.5	2348.2	2346.5	2373.2	2369.9	2368.2	2373.2	2374.9	2368.2	2363.2
17.5°	2219.6	2231.3	2232.9	2236.3	2241.3	2246.3	2253.0	2271.4	2264.7	2259.7	2276.4
20°	2082.6	2077.6	2091.0	2104.3	2109.3	2109.3	2119.4	2132.7	2122.7	2116.0	2117.7
22.5°	1934.0	1942.3	1935.7	1949.0	1955.7	1964.1	1974.1	1985.8	1977.4	1959.0	1980.8
25°	1745.3	1750.3	1772.0	1770.3	1780.3	1800.4	1815.4	1815.4	1815.4	1813.7	1813.7
27.5°	1508.1	1504.8	1531.5	1549.9	1574.9	1606.6	1626.7	1658.4	1663.4	1658.4	1646.7
30°	1254.3	1250.9	1284.3	1307.7	1352.8	1367.8	1422.9	1453.0	1484.7	1483.1	1474.7
32.5°	990.4	997.1	1023.8	1057.2	1093.9	1140.7	1192.5	1259.3	1287.7	1294.3	1279.3
35°	736.5	746.5	771.6	800.0	845.1	896.8	968.7	1032.1	1080.6	1080.6	1068.9
37.5°	531.1	534.4	557.8	576.2	623.0	669.7	731.5	818.4	848.4	860.1	848.4
40°	362.4	362.4	375.8	395.8	434.2	474.3	531.1	596.2	639.7	658.0	638.0
42.5°	230.5	233.8	243.8	257.2	285.6	320.7	364.1	412.5	444.2	457.6	439.2
45°	138.6	142.0	150.3	160.3	178.7	200.4	230.5	265.5	292.3	304.0	295.6
47.5°	83.5	86.8	90.2	96.9	110.2	125.3	140.3	160.3	177.0	178.7	175.4
50°	48.4	48.4	51.8	56.8	63.5	71.8	80.2	91.9	96.9	103.5	96.9
52.5°	31.7	31.7	31.7	33.4	36.7	40.1	43.4	50.1	53.4	53.4	51.8
55°	23.4	23.4	23.4	23.4	25.1	25.1	25.1	26.7	28.4	28.4	28.4
57.5°	16.7	16.7	16.7	18.4	18.4	18.4	16.7	16.7	16.7	16.7	16.7
60°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	11.7	11.7	11.7
62.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
65°	6.7	6.7	6.7	8.4	8.4	8.4	8.4	6.7	6.7	6.7	6.7
67.5°	5.0	5.0	5.0	6.7	6.7	6.7	6.7	6.7	5.0	5.0	5.0
70°	3.3	3.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5
2.5°	2657.1	2648.8	2648.8	2648.8	2645.5	2648.8	2653.8	2645.5
5°	2628.8	2632.1	2617.1	2628.8	2633.8	2625.4	2645.5	2628.8
7.5°	2603.7	2598.7	2575.3	2592.0	2602.0	2605.4	2603.7	2590.3
10°	2553.6	2541.9	2531.9	2531.9	2528.5	2526.9	2545.2	2538.6
12.5°	2463.4	2471.8	2456.7	2465.1	2458.4	2460.1	2461.7	2458.4
15°	2386.6	2378.2	2358.2	2371.6	2363.2	2354.9	2371.6	2346.5
17.5°	2266.3	2264.7	2253.0	2244.6	2248.0	2246.3	2254.6	2243.0
20°	2124.4	2127.7	2121.0	2117.7	2112.7	2101.0	2111.0	2097.7
22.5°	1970.7	1974.1	1980.8	1967.4	1969.1	1952.4	1967.4	1952.4
25°	1815.4	1813.7	1805.4	1798.7	1780.3	1762.0	1758.6	1746.9
27.5°	1645.1	1633.4	1613.3	1591.6	1563.2	1538.2	1536.5	1528.2
30°	1458.0	1433.0	1396.2	1361.1	1317.7	1279.3	1279.3	1265.9
32.5°	1260.9	1204.1	1154.0	1110.6	1053.8	1032.1	1010.4	998.7
35°	1025.4	975.3	915.2	843.4	816.7	763.2	766.6	739.9
37.5°	803.3	741.5	684.7	626.3	579.5	554.5	541.1	527.8
40°	596.2	536.1	474.3	435.9	394.1	372.4	364.1	360.7
42.5°	407.5	357.4	317.3	285.6	263.9	240.5	233.8	230.5
45°	265.5	237.2	200.4	175.4	160.3	147.0	147.0	142.0
47.5°	158.7	140.3	121.9	105.2	95.2	86.8	83.5	81.8
50°	88.5	78.5	68.5	61.8	55.1	50.1	48.4	48.4
52.5°	48.4	43.4	40.1	35.1	31.7	31.7	31.7	30.1
55°	25.1	25.1	25.1	25.1	23.4	23.4	23.4	21.7
57.5°	16.7	16.7	18.4	18.4	18.4	16.7	16.7	16.7
60°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
62.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
65°	6.7	8.4	8.4	8.4	8.4	6.7	6.7	6.7
67.5°	5.0	6.7	6.7	6.7	5.0	5.0	5.0	5.0
70°	5.0	5.0	5.0	5.0	5.0	3.3	3.3	3.3
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	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)