

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: P209343

Luminaire Tested: **LDSQ6B30D010 EU6B30508030 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209343
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 EU6B30508030 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: 2916.5 lumens
Efficiency: N/A
Efficacy: 104.2 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

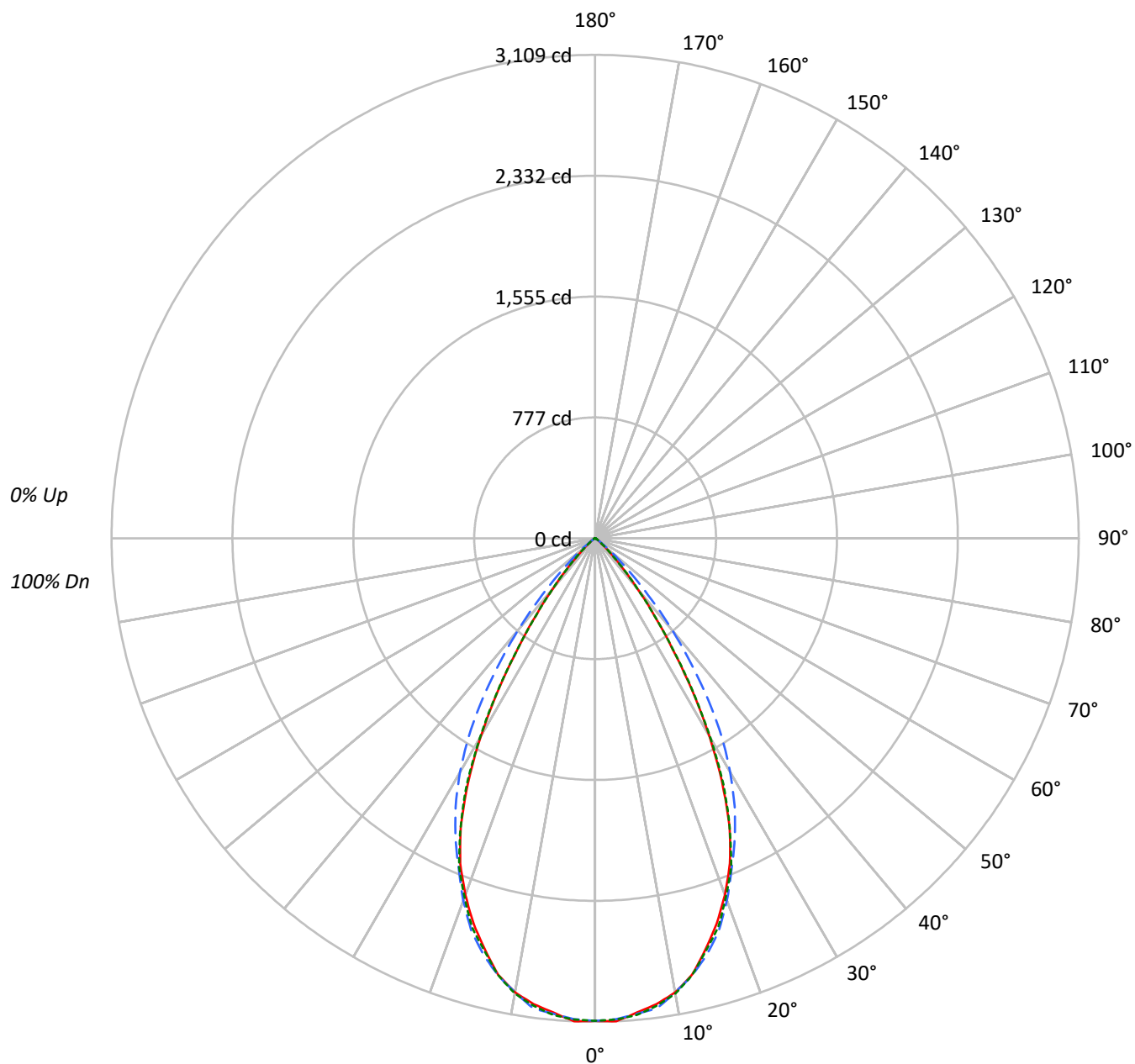
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P209343

CATALOG NUMBER: LDSQ6B30D010 EU6B30508030 6LBSQ1LI

Luminous Intensity Polar Plot





TEST NUMBER: P209343

CATALOG NUMBER: LDSQ6B30D010 EU6B30508030 6LBSQ1LI

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°			



TEST NUMBER: P209343

CATALOG NUMBER: LDSQ6B30D010 EU6B30508030 6LBSQ1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	10.0
10°-20°	772.9	26.5
20°-30°	948.6	32.5
30°-40°	654.8	22.5
40°-50°	204.7	7.0
50°-60°	32.0	1.1
60°-70°	9.2	0.3
70°-80°	3.1	0.1
80°-90°	0.7	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°	2012.0	69.0
0°-40°	2666.8	91.4
0°-60°	2903.5	99.6
0°-90°	2916.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3104	3104	3104	3104	3104	
5°	3062	3074	3070	3071	3078	290
15°	2738	2777	2773	2769	2748	766
25°	2044	2096	2124	2110	2046	916
35°	862	1020	1265	1030	866	551
45°	162	222	356	220	166	145
55°	27	29	33	29	25	27
65°	8	10	8	10	8	9
75°	2	2	2	2	2	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P209343

CATALOG NUMBER: LDSQ6B30D010 EU6B30508030 6LBSQ1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3103.5	3103.5	3103.5	3103.5	3103.5	3103.5	3103.5	3103.5	3103.5	3103.5	3103.5
2.5°	3109.4	3066.4	3093.7	3087.9	3103.5	3113.3	3103.5	3121.1	3109.4	3095.7	3099.6
5°	3062.4	3068.3	3066.4	3070.3	3074.2	3074.2	3093.7	3095.7	3099.6	3070.3	3078.1
7.5°	3021.4	3021.4	3031.2	3027.2	3040.9	3037.0	3039.0	3054.6	3056.6	3048.8	3042.9
10°	2964.7	2956.8	2947.1	2947.1	2964.7	2966.6	2982.3	2984.2	2996.0	2964.7	2968.6
12.5°	2876.7	2872.8	2857.1	2864.9	2878.6	2870.8	2896.2	2898.2	2894.3	2880.6	2888.4
15°	2737.8	2753.5	2749.6	2747.6	2778.9	2775.0	2773.0	2778.9	2780.8	2773.0	2767.2
17.5°	2599.0	2612.7	2614.6	2618.5	2624.4	2630.3	2638.1	2659.6	2651.8	2645.9	2665.5
20°	2438.6	2432.7	2448.4	2464.0	2469.9	2469.9	2481.6	2497.3	2485.5	2477.7	2479.7
22.5°	2264.6	2274.3	2266.5	2282.2	2290.0	2299.8	2311.5	2325.2	2315.4	2293.9	2319.3
25°	2043.6	2049.5	2074.9	2072.9	2084.7	2108.1	2125.7	2125.7	2125.7	2123.8	2123.8
27.5°	1765.9	1762.0	1793.3	1814.8	1844.1	1881.3	1904.7	1941.9	1947.8	1941.9	1928.2
30°	1468.6	1464.7	1503.8	1531.2	1584.0	1601.6	1666.2	1701.4	1738.5	1736.6	1726.8
32.5°	1159.7	1167.5	1198.8	1237.9	1280.9	1335.7	1396.3	1474.5	1507.8	1515.6	1498.0
35°	862.4	874.1	903.5	936.7	989.5	1050.1	1134.2	1208.6	1265.3	1265.3	1251.6
37.5°	621.9	625.8	653.2	674.7	729.4	784.2	856.5	958.2	993.4	1007.1	993.4
40°	424.4	424.4	440.0	463.5	508.5	555.4	621.9	698.1	749.0	770.5	747.0
42.5°	269.9	273.8	285.5	301.2	334.4	375.5	426.3	483.0	520.2	535.8	514.3
45°	162.3	166.2	176.0	187.7	209.2	234.7	269.9	310.9	342.2	355.9	346.1
47.5°	97.8	101.7	105.6	113.4	129.1	146.7	164.3	187.7	207.3	209.2	205.3
50°	56.7	56.7	60.6	66.5	74.3	84.1	93.9	107.6	113.4	121.2	113.4
52.5°	37.2	37.2	37.2	39.1	43.0	46.9	50.8	58.7	62.6	62.6	60.6
55°	27.4	27.4	27.4	27.4	29.3	29.3	29.3	31.3	33.2	33.2	33.2
57.5°	19.6	19.6	19.6	21.5	21.5	21.5	19.6	19.6	19.6	19.6	19.6
60°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	13.7	13.7	13.7
62.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
65°	7.8	7.8	7.8	9.8	9.8	9.8	9.8	7.8	7.8	7.8	7.8
67.5°	5.9	5.9	5.9	7.8	7.8	7.8	7.8	7.8	5.9	5.9	5.9
70°	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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



TEST NUMBER: P209343

CATALOG NUMBER: LDSQ6B30D010 EU6B30508030 6LBSQ1LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3103.5	3103.5	3103.5	3103.5	3103.5	3103.5	3103.5	3103.5
2.5°	3111.3	3101.6	3101.6	3101.6	3097.6	3101.6	3107.4	3097.6
5°	3078.1	3082.0	3064.4	3078.1	3084.0	3074.2	3097.6	3078.1
7.5°	3048.8	3042.9	3015.5	3035.1	3046.8	3050.7	3048.8	3033.1
10°	2990.1	2976.4	2964.7	2964.7	2960.8	2958.8	2980.3	2972.5
12.5°	2884.5	2894.3	2876.7	2886.4	2878.6	2880.6	2882.5	2878.6
15°	2794.5	2784.8	2761.3	2776.9	2767.2	2757.4	2776.9	2747.6
17.5°	2653.7	2651.8	2638.1	2628.3	2632.2	2630.3	2640.0	2626.4
20°	2487.5	2491.4	2483.6	2479.7	2473.8	2460.1	2471.9	2456.2
22.5°	2307.6	2311.5	2319.3	2303.7	2305.6	2286.1	2303.7	2286.1
25°	2125.7	2123.8	2114.0	2106.2	2084.7	2063.1	2059.2	2045.5
27.5°	1926.3	1912.6	1889.1	1863.7	1830.4	1801.1	1799.1	1789.4
30°	1707.2	1677.9	1634.9	1593.8	1543.0	1498.0	1498.0	1482.3
32.5°	1476.5	1410.0	1351.3	1300.5	1234.0	1208.6	1183.1	1169.4
35°	1200.7	1142.1	1071.7	987.6	956.3	893.7	897.6	866.3
37.5°	940.6	868.3	801.8	733.3	678.6	649.3	633.6	618.0
40°	698.1	627.7	555.4	510.4	461.5	436.1	426.3	422.4
42.5°	477.2	418.5	371.6	334.4	309.0	281.6	273.8	269.9
45°	310.9	277.7	234.7	205.3	187.7	172.1	172.1	166.2
47.5°	185.8	164.3	142.8	123.2	111.5	101.7	97.8	95.8
50°	103.6	91.9	80.2	72.4	64.5	58.7	56.7	56.7
52.5°	56.7	50.8	46.9	41.1	37.2	37.2	37.2	35.2
55°	29.3	29.3	29.3	29.3	27.4	27.4	27.4	25.4
57.5°	19.6	19.6	21.5	21.5	21.5	19.6	19.6	19.6
60°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
62.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
65°	7.8	9.8	9.8	9.8	9.8	7.8	7.8	7.8
67.5°	5.9	7.8	7.8	7.8	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°









(END OF REPORT)