

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: P209352

Luminaire Tested: **LDSQ6B30D010 EU6B30509050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209352
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 EU6B30509050 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 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2541.7 lumens
Efficiency: N/A
Efficacy: 90.8 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

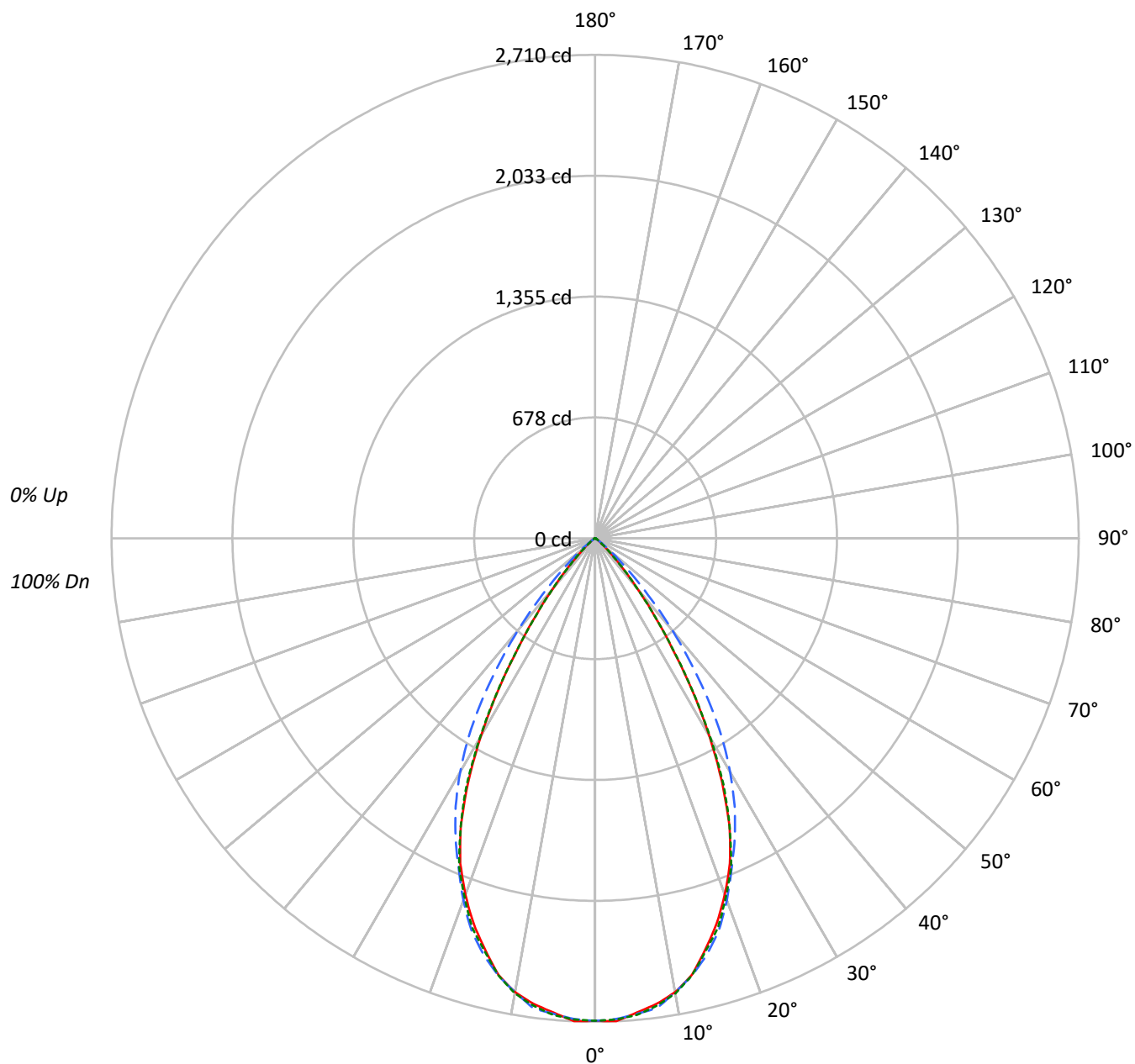
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	253.2	10.0
10°-20°	673.6	26.5
20°-30°	826.7	32.5
30°-40°	570.7	22.5
40°-50°	178.4	7.0
50°-60°	27.9	1.1
60°-70°	8.0	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°	1753.5	69.0
0°-40°	2324.1	91.4
0°-60°	2530.4	99.6
0°-90°	2541.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2541.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2705	2705	2705	2705	2705	
5°	2669	2679	2676	2677	2683	252
15°	2386	2420	2417	2413	2394	667
25°	1781	1827	1851	1839	1783	798
35°	752	889	1103	897	755	480
45°	142	193	310	192	145	127
55°	24	26	29	26	22	23
65°	7	8	7	8	7	8
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°	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7
2.5°	2709.8	2672.3	2696.2	2691.1	2704.7	2713.2	2704.7	2720.1	2709.8	2697.9	2701.3
5°	2668.9	2674.0	2672.3	2675.7	2679.2	2679.2	2696.2	2697.9	2701.3	2675.7	2682.6
7.5°	2633.1	2633.1	2641.7	2638.3	2650.2	2646.8	2648.5	2662.1	2663.8	2657.0	2651.9
10°	2583.7	2576.9	2568.4	2568.4	2583.7	2585.4	2599.1	2600.8	2611.0	2583.7	2587.1
12.5°	2507.0	2503.6	2490.0	2496.8	2508.7	2501.9	2524.1	2525.8	2522.4	2510.4	2517.2
15°	2386.0	2399.7	2396.2	2394.5	2421.8	2418.4	2416.7	2421.8	2423.5	2416.7	2411.6
17.5°	2265.0	2276.9	2278.6	2282.1	2287.2	2292.3	2299.1	2317.8	2311.0	2305.9	2323.0
20°	2125.3	2120.1	2133.8	2147.4	2152.5	2152.5	2162.8	2176.4	2166.2	2159.3	2161.1
22.5°	1973.6	1982.1	1975.3	1988.9	1995.7	2004.3	2014.5	2026.4	2017.9	1999.1	2021.3
25°	1781.0	1786.1	1808.3	1806.6	1816.8	1837.2	1852.6	1852.6	1852.6	1850.9	1850.9
27.5°	1539.0	1535.6	1562.8	1581.6	1607.2	1639.5	1660.0	1692.4	1697.5	1692.4	1680.4
30°	1279.9	1276.5	1310.6	1334.5	1380.5	1395.8	1452.1	1482.7	1515.1	1513.4	1504.9
32.5°	1010.6	1017.5	1044.7	1078.8	1116.3	1164.0	1216.9	1285.0	1314.0	1320.8	1305.5
35°	751.6	761.8	787.4	816.4	862.4	915.2	988.5	1053.3	1102.7	1102.7	1090.8
37.5°	542.0	545.4	569.2	588.0	635.7	683.4	746.5	835.1	865.8	877.7	865.8
40°	369.8	369.8	383.5	403.9	443.1	484.0	542.0	608.4	652.7	671.5	651.0
42.5°	235.2	238.6	248.8	262.5	291.4	327.2	371.5	421.0	453.3	467.0	448.2
45°	141.5	144.9	153.4	163.6	182.4	204.5	235.2	271.0	298.3	310.2	301.7
47.5°	85.2	88.6	92.0	98.8	112.5	127.8	143.2	163.6	180.7	182.4	179.0
50°	49.4	49.4	52.8	57.9	64.8	73.3	81.8	93.7	98.8	105.7	98.8
52.5°	32.4	32.4	32.4	34.1	37.5	40.9	44.3	51.1	54.5	54.5	52.8
55°	23.9	23.9	23.9	23.9	25.6	25.6	25.6	27.3	29.0	29.0	29.0
57.5°	17.0	17.0	17.0	18.7	18.7	18.7	17.0	17.0	17.0	17.0	17.0
60°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	11.9	11.9	11.9
62.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
65°	6.8	6.8	6.8	8.5	8.5	8.5	8.5	6.8	6.8	6.8	6.8
67.5°	5.1	5.1	5.1	6.8	6.8	6.8	6.8	6.8	5.1	5.1	5.1
70°	3.4	3.4	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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°	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7	2704.7
2.5°	2711.5	2703.0	2703.0	2703.0	2699.6	2703.0	2708.1	2699.6
5°	2682.6	2686.0	2670.6	2682.6	2687.7	2679.2	2699.6	2682.6
7.5°	2657.0	2651.9	2628.0	2645.1	2655.3	2658.7	2657.0	2643.4
10°	2605.9	2593.9	2583.7	2583.7	2580.3	2578.6	2597.4	2590.5
12.5°	2513.8	2522.4	2507.0	2515.5	2508.7	2510.4	2512.1	2508.7
15°	2435.4	2426.9	2406.5	2420.1	2411.6	2403.1	2420.1	2394.5
17.5°	2312.7	2311.0	2299.1	2290.6	2294.0	2292.3	2300.8	2288.9
20°	2167.9	2171.3	2164.5	2161.1	2155.9	2144.0	2154.2	2140.6
22.5°	2011.1	2014.5	2021.3	2007.7	2009.4	1992.3	2007.7	1992.3
25°	1852.6	1850.9	1842.3	1835.5	1816.8	1798.0	1794.6	1782.7
27.5°	1678.7	1666.8	1646.4	1624.2	1595.2	1569.7	1568.0	1559.4
30°	1487.9	1462.3	1424.8	1389.0	1344.7	1305.5	1305.5	1291.9
32.5°	1286.7	1228.8	1177.7	1133.4	1075.4	1053.3	1031.1	1019.2
35°	1046.4	995.3	934.0	860.7	833.4	778.9	782.3	755.0
37.5°	819.8	756.7	698.8	639.1	591.4	565.8	552.2	538.6
40°	608.4	547.1	484.0	444.8	402.2	380.1	371.5	368.1
42.5°	415.8	364.7	323.8	291.4	269.3	245.4	238.6	235.2
45°	271.0	242.0	204.5	179.0	163.6	150.0	150.0	144.9
47.5°	161.9	143.2	124.4	107.4	97.1	88.6	85.2	83.5
50°	90.3	80.1	69.9	63.1	56.2	51.1	49.4	49.4
52.5°	49.4	44.3	40.9	35.8	32.4	32.4	32.4	30.7
55°	25.6	25.6	25.6	25.6	23.9	23.9	23.9	22.2
57.5°	17.0	17.0	18.7	18.7	18.7	17.0	17.0	17.0
60°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
62.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
65°	6.8	8.5	8.5	8.5	8.5	6.8	6.8	6.8
67.5°	5.1	6.8	6.8	6.8	5.1	5.1	5.1	5.1
70°	5.1	5.1	5.1	5.1	5.1	3.4	3.4	3.4
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)