

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: P209350

Luminaire Tested: **LDSQ6B30D010 EU6B30509035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209350
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 EU6B30509035 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 3500 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.4 lumens
Efficiency: N/A
Efficacy: 90.2 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

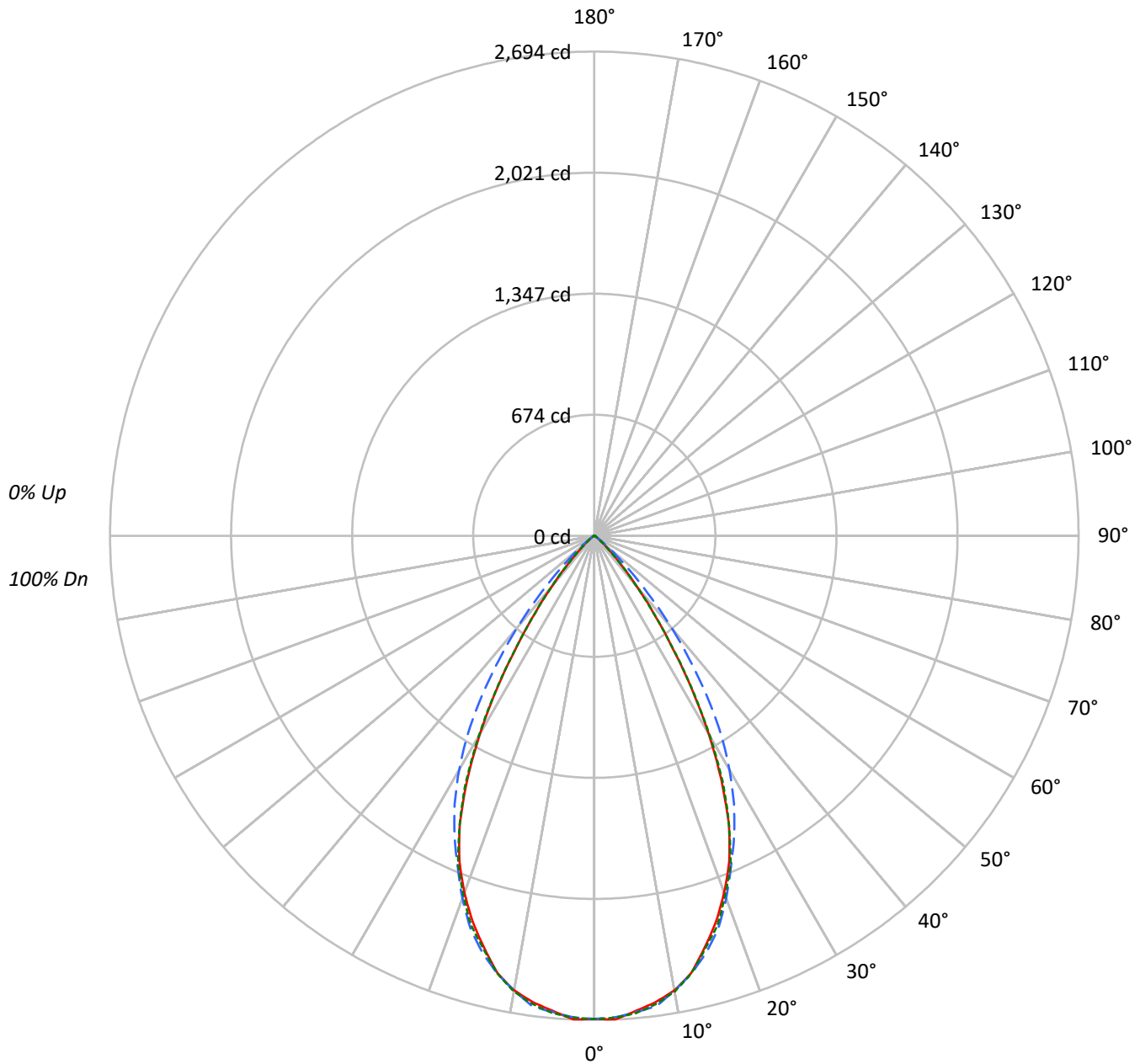
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	251.7	10.0
10°-20°	669.5	26.5
20°-30°	821.7	32.5
30°-40°	567.2	22.5
40°-50°	177.4	7.0
50°-60°	27.7	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°	1742.9	69.0
0°-40°	2310.1	91.4
0°-60°	2515.2	99.6
0°-90°	2526.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2688	2688	2688	2688	2688	
5°	2653	2663	2660	2660	2666	251
15°	2372	2406	2402	2399	2380	663
25°	1770	1816	1840	1828	1772	793
35°	747	883	1096	892	750	477
45°	141	192	308	191	144	126
55°	24	25	29	25	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°	2688.4	2688.4	2688.4	2688.4	2688.4	2688.4	2688.4	2688.4	2688.4	2688.4	2688.4
2.5°	2693.5	2656.3	2680.0	2674.9	2688.4	2696.9	2688.4	2703.7	2693.5	2681.7	2685.1
5°	2652.9	2658.0	2656.3	2659.6	2663.0	2663.0	2680.0	2681.7	2685.1	2659.6	2666.4
7.5°	2617.3	2617.3	2625.8	2622.4	2634.2	2630.8	2632.5	2646.1	2647.8	2641.0	2635.9
10°	2568.2	2561.4	2552.9	2552.9	2568.2	2569.9	2583.4	2585.1	2595.3	2568.2	2571.6
12.5°	2491.9	2488.5	2475.0	2481.8	2493.6	2486.9	2508.9	2510.6	2507.2	2495.3	2502.1
15°	2371.7	2385.2	2381.8	2380.1	2407.2	2403.8	2402.2	2407.2	2408.9	2402.2	2397.1
17.5°	2251.4	2263.2	2264.9	2268.3	2273.4	2278.5	2285.3	2303.9	2297.1	2292.0	2309.0
20°	2112.5	2107.4	2120.9	2134.5	2139.6	2139.6	2149.7	2163.3	2153.1	2146.4	2148.0
22.5°	1961.7	1970.2	1963.4	1976.9	1983.7	1992.2	2002.4	2014.2	2005.7	1987.1	2009.1
25°	1770.3	1775.4	1797.4	1795.7	1805.8	1826.2	1841.4	1841.4	1841.4	1839.7	1839.7
27.5°	1529.7	1526.3	1553.4	1572.1	1597.5	1629.7	1650.0	1682.2	1687.3	1682.2	1670.3
30°	1272.2	1268.8	1302.7	1326.4	1372.2	1387.4	1443.3	1473.8	1506.0	1504.3	1495.8
32.5°	1004.6	1011.3	1038.4	1072.3	1109.6	1157.0	1209.5	1277.3	1306.1	1312.9	1297.6
35°	747.1	757.2	782.6	811.4	857.2	909.7	982.5	1046.9	1096.0	1096.0	1084.2
37.5°	538.7	542.1	565.8	584.4	631.9	679.3	742.0	830.1	860.6	872.4	860.6
40°	367.6	367.6	381.2	401.5	440.5	481.1	538.7	604.8	648.8	667.5	647.1
42.5°	233.8	237.2	247.3	260.9	289.7	325.3	369.3	418.4	450.6	464.2	445.5
45°	140.6	144.0	152.5	162.6	181.3	203.3	233.8	269.4	296.5	308.3	299.8
47.5°	84.7	88.1	91.5	98.3	111.8	127.1	142.3	162.6	179.6	181.3	177.9
50°	49.1	49.1	52.5	57.6	64.4	72.8	81.3	93.2	98.3	105.0	98.3
52.5°	32.2	32.2	32.2	33.9	37.3	40.7	44.0	50.8	54.2	54.2	52.5
55°	23.7	23.7	23.7	23.7	25.4	25.4	25.4	27.1	28.8	28.8	28.8
57.5°	16.9	16.9	16.9	18.6	18.6	18.6	16.9	16.9	16.9	16.9	16.9
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°	2688.4	2688.4	2688.4	2688.4	2688.4	2688.4	2688.4	2688.4
2.5°	2695.2	2686.8	2686.8	2686.8	2683.4	2686.8	2691.8	2683.4
5°	2666.4	2669.8	2654.6	2666.4	2671.5	2663.0	2683.4	2666.4
7.5°	2641.0	2635.9	2612.2	2629.2	2639.3	2642.7	2641.0	2627.5
10°	2590.2	2578.3	2568.2	2568.2	2564.8	2563.1	2581.7	2574.9
12.5°	2498.7	2507.2	2491.9	2500.4	2493.6	2495.3	2497.0	2493.6
15°	2420.8	2412.3	2392.0	2405.5	2397.1	2388.6	2405.5	2380.1
17.5°	2298.8	2297.1	2285.3	2276.8	2280.2	2278.5	2287.0	2275.1
20°	2154.8	2158.2	2151.4	2148.0	2143.0	2131.1	2141.3	2127.7
22.5°	1999.0	2002.4	2009.1	1995.6	1997.3	1980.3	1995.6	1980.3
25°	1841.4	1839.7	1831.3	1824.5	1805.8	1787.2	1783.8	1772.0
27.5°	1668.6	1656.8	1636.4	1614.4	1585.6	1560.2	1558.5	1550.0
30°	1478.9	1453.5	1416.2	1380.6	1336.6	1297.6	1297.6	1284.1
32.5°	1279.0	1221.4	1170.6	1126.5	1068.9	1046.9	1024.9	1013.0
35°	1040.1	989.3	928.3	855.5	828.4	774.2	777.6	750.5
37.5°	814.8	752.2	694.6	635.3	587.8	562.4	548.9	535.3
40°	604.8	543.8	481.1	442.1	399.8	377.8	369.3	365.9
42.5°	413.3	362.5	321.9	289.7	267.7	243.9	237.2	233.8
45°	269.4	240.6	203.3	177.9	162.6	149.1	149.1	144.0
47.5°	160.9	142.3	123.7	106.7	96.6	88.1	84.7	83.0
50°	89.8	79.6	69.5	62.7	55.9	50.8	49.1	49.1
52.5°	49.1	44.0	40.7	35.6	32.2	32.2	32.2	30.5
55°	25.4	25.4	25.4	25.4	23.7	23.7	23.7	22.0
57.5°	16.9	16.9	18.6	18.6	18.6	16.9	16.9	16.9
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)