

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: P209344

Luminaire Tested: **LDSQ6B30D010 EU6B30508035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209344
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 EU6B30508035 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: 2988.7 lumens
Efficiency: N/A
Efficacy: 106.7 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

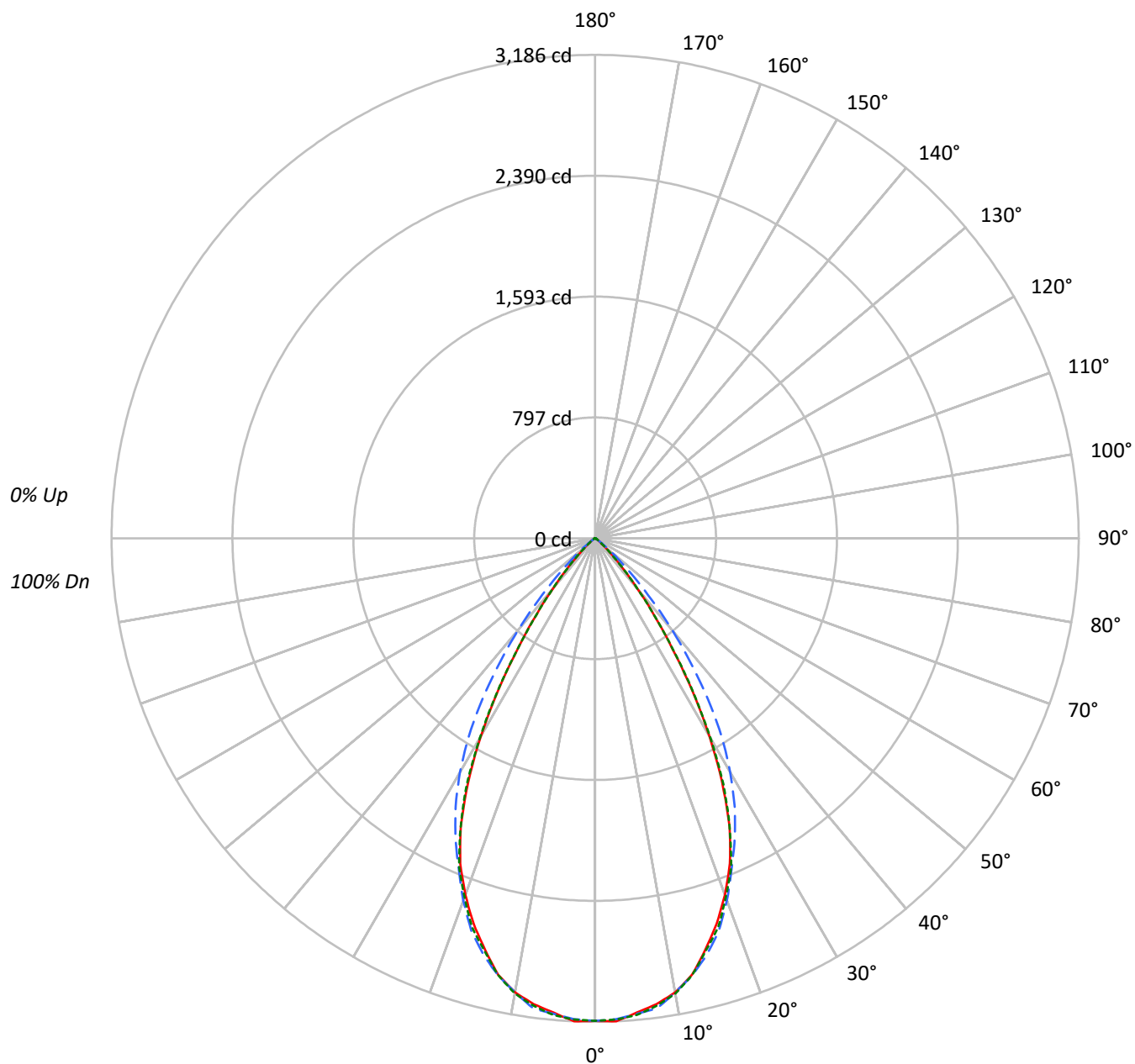
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	297.7	10.0
10°-20°	792.0	26.5
20°-30°	972.0	32.5
30°-40°	671.0	22.5
40°-50°	209.8	7.0
50°-60°	32.8	1.1
60°-70°	9.5	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°	2061.8	69.0
0°-40°	2732.8	91.4
0°-60°	2975.4	99.6
0°-90°	2988.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3180	3180	3180	3180	3180	
5°	3138	3150	3146	3147	3154	297
15°	2806	2846	2842	2838	2816	785
25°	2094	2148	2176	2162	2096	938
35°	884	1045	1297	1055	888	565
45°	166	227	365	225	170	149
55°	28	30	34	30	26	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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3180.4	3180.4	3180.4	3180.4	3180.4	3180.4	3180.4	3180.4	3180.4	3180.4	3180.4
2.5°	3186.4	3142.3	3170.4	3164.3	3180.4	3190.4	3180.4	3198.4	3186.4	3172.4	3176.4
5°	3138.3	3144.3	3142.3	3146.3	3150.3	3150.3	3170.4	3172.4	3176.4	3146.3	3154.3
7.5°	3096.2	3096.2	3106.2	3102.2	3116.2	3112.2	3114.2	3130.3	3132.3	3124.3	3118.3
10°	3038.1	3030.1	3020.1	3020.1	3038.1	3040.1	3056.1	3058.1	3070.2	3038.1	3042.1
12.5°	2947.9	2943.9	2927.9	2935.9	2949.9	2941.9	2968.0	2970.0	2965.9	2951.9	2959.9
15°	2805.6	2821.7	2817.7	2815.6	2847.7	2843.7	2841.7	2847.7	2849.7	2841.7	2835.7
17.5°	2663.3	2677.4	2679.4	2683.4	2689.4	2695.4	2703.4	2725.5	2717.4	2711.4	2731.5
20°	2499.0	2493.0	2509.0	2525.1	2531.1	2531.1	2543.1	2559.1	2547.1	2539.1	2541.1
22.5°	2320.7	2330.7	2322.7	2338.7	2346.7	2356.7	2368.8	2382.8	2372.8	2350.7	2376.8
25°	2094.2	2100.2	2126.3	2124.3	2136.3	2160.3	2178.4	2178.4	2178.4	2176.4	2176.4
27.5°	1809.6	1805.6	1837.7	1859.7	1889.8	1927.9	1951.9	1990.0	1996.0	1990.0	1976.0
30°	1505.0	1501.0	1541.1	1569.1	1623.3	1641.3	1707.4	1743.5	1781.6	1779.6	1769.5
32.5°	1188.4	1196.4	1228.5	1268.5	1312.6	1368.7	1430.9	1511.0	1545.1	1553.1	1535.1
35°	883.8	895.8	925.9	959.9	1014.0	1076.2	1162.3	1238.5	1296.6	1296.6	1282.6
37.5°	637.3	641.3	669.3	691.4	747.5	803.6	877.8	982.0	1018.0	1032.1	1018.0
40°	434.9	434.9	450.9	475.0	521.0	569.1	637.3	715.4	767.5	789.6	765.5
42.5°	276.6	280.6	292.6	308.6	342.7	384.8	436.9	495.0	533.1	549.1	527.1
45°	166.3	170.3	180.4	192.4	214.4	240.5	276.6	318.6	350.7	364.7	354.7
47.5°	100.2	104.2	108.2	116.2	132.3	150.3	168.3	192.4	212.4	214.4	210.4
50°	58.1	58.1	62.1	68.1	76.2	86.2	96.2	110.2	116.2	124.2	116.2
52.5°	38.1	38.1	38.1	40.1	44.1	48.1	52.1	60.1	64.1	64.1	62.1
55°	28.1	28.1	28.1	28.1	30.1	30.1	30.1	32.1	34.1	34.1	34.1
57.5°	20.0	20.0	20.0	22.0	22.0	22.0	20.0	20.0	20.0	20.0	20.0
60°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	14.0	14.0	14.0
62.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
65°	8.0	8.0	8.0	10.0	10.0	10.0	10.0	8.0	8.0	8.0	8.0
67.5°	6.0	6.0	6.0	8.0	8.0	8.0	8.0	8.0	6.0	6.0	6.0
70°	4.0	4.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3180.4	3180.4	3180.4	3180.4	3180.4	3180.4	3180.4	3180.4
2.5°	3188.4	3178.4	3178.4	3178.4	3174.4	3178.4	3184.4	3174.4
5°	3154.3	3158.3	3140.3	3154.3	3160.3	3150.3	3174.4	3154.3
7.5°	3124.3	3118.3	3090.2	3110.2	3122.3	3126.3	3124.3	3108.2
10°	3064.1	3050.1	3038.1	3038.1	3034.1	3032.1	3054.1	3046.1
12.5°	2955.9	2965.9	2947.9	2957.9	2949.9	2951.9	2953.9	2949.9
15°	2863.7	2853.7	2829.7	2845.7	2835.7	2825.7	2845.7	2815.6
17.5°	2719.5	2717.4	2703.4	2693.4	2697.4	2695.4	2705.4	2691.4
20°	2549.1	2553.1	2545.1	2541.1	2535.1	2521.1	2533.1	2517.0
22.5°	2364.7	2368.8	2376.8	2360.7	2362.7	2342.7	2360.7	2342.7
25°	2178.4	2176.4	2166.3	2158.3	2136.3	2114.2	2110.2	2096.2
27.5°	1974.0	1959.9	1935.9	1909.8	1875.8	1845.7	1843.7	1833.7
30°	1749.5	1719.4	1675.4	1633.3	1581.2	1535.1	1535.1	1519.0
32.5°	1513.0	1444.9	1384.8	1332.7	1264.5	1238.5	1212.4	1198.4
35°	1230.5	1170.3	1098.2	1012.0	980.0	915.8	919.8	887.8
37.5°	963.9	889.8	821.6	751.5	695.4	665.3	649.3	633.3
40°	715.4	643.3	569.1	523.0	472.9	446.9	436.9	432.9
42.5°	489.0	428.9	380.8	342.7	316.6	288.6	280.6	276.6
45°	318.6	284.6	240.5	210.4	192.4	176.4	176.4	170.3
47.5°	190.4	168.3	146.3	126.3	114.2	104.2	100.2	98.2
50°	106.2	94.2	82.2	74.1	66.1	60.1	58.1	58.1
52.5°	58.1	52.1	48.1	42.1	38.1	38.1	38.1	36.1
55°	30.1	30.1	30.1	30.1	28.1	28.1	28.1	26.1
57.5°	20.0	20.0	22.0	22.0	22.0	20.0	20.0	20.0
60°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
62.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
65°	8.0	10.0	10.0	10.0	10.0	8.0	8.0	8.0
67.5°	6.0	8.0	8.0	8.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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



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— 0°-180° - - 45°-225° - - - 90°-270°









(END OF REPORT)