

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: P209378

Luminaire Tested: **LDSQ6B50D010 EU6B30509727 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209378
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: LDSQ6B50D010 EU6B30509727 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
D010TE
Light Source: HIGH LUMEN LED 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3756.0 lumens
Efficiency: N/A
Efficacy: 63.9 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

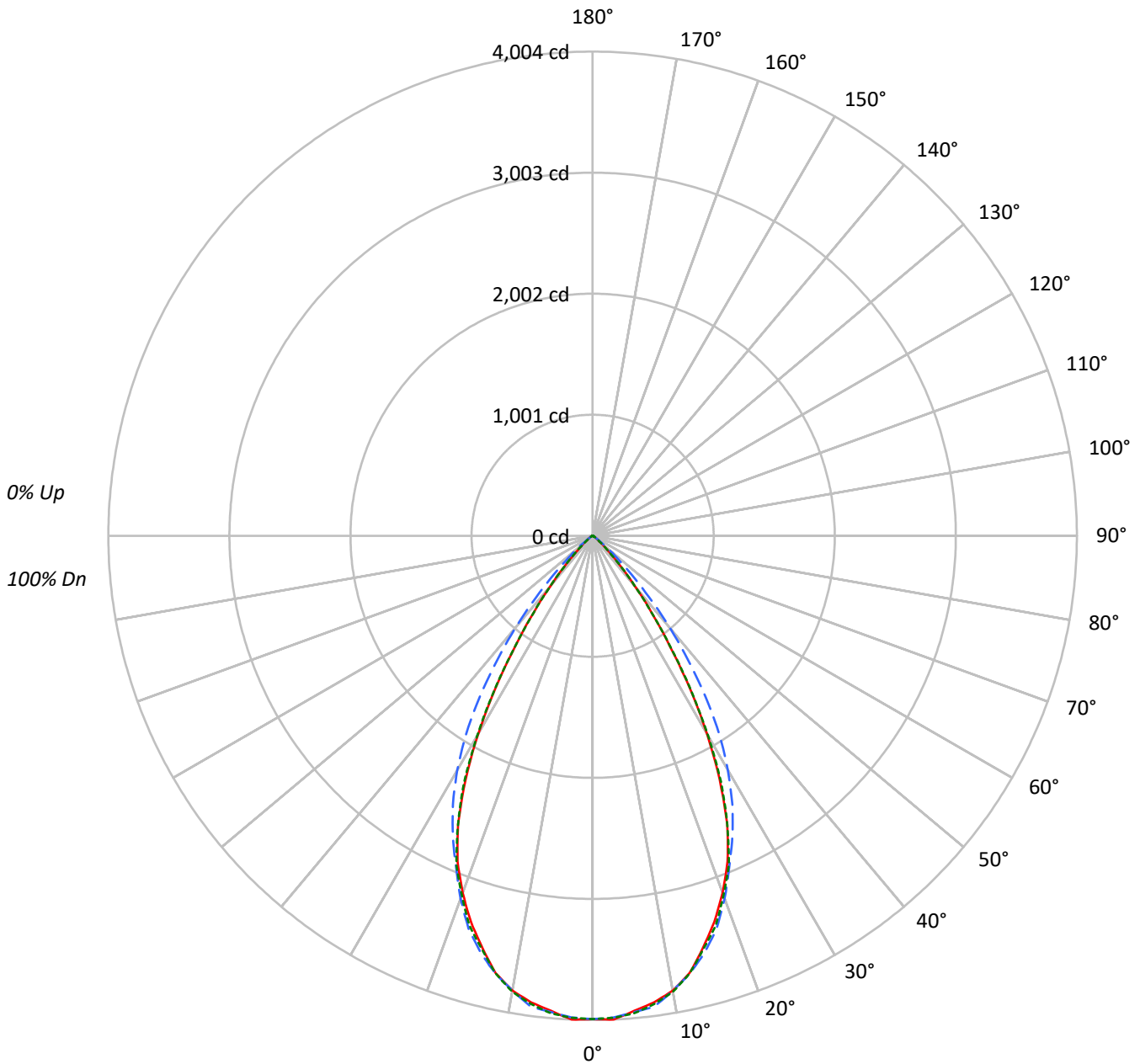
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P209378

CATALOG NUMBER: LDSQ6B50D010 EU6B30509727 6LBSQ1LI

Luminous Intensity Polar Plot





TEST NUMBER: P209378

CATALOG NUMBER: LDSQ6B50D010 EU6B30509727 6LBSQ1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°			



TEST NUMBER: P209378

CATALOG NUMBER: LDSQ6B50D010 EU6B30509727 6LBSQ1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	10.0
10°-20°	995.4	26.5
20°-30°	1221.6	32.5
30°-40°	843.3	22.5
40°-50°	263.7	7.0
50°-60°	41.2	1.1
60°-70°	11.9	0.3
70°-80°	3.9	0.1
80°-90°	0.9	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°	2591.1	69.0
0°-40°	3434.4	91.4
0°-60°	3739.3	99.6
0°-90°	3756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3997	3997	3997	3997	3997	
5°	3944	3959	3954	3955	3964	373
15°	3526	3576	3571	3566	3538	986
25°	2632	2700	2735	2717	2634	1179
35°	1111	1313	1630	1326	1116	710
45°	209	286	458	283	214	187
55°	35	38	43	38	33	34
65°	10	13	10	13	10	11
75°	2	2	2	2	2	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P209378

CATALOG NUMBER: LDSQ6B50D010 EU6B30509727 6LBSQ1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9
2.5°	4004.4	3949.0	3984.3	3976.7	3996.9	4009.4	3996.9	4019.5	4004.4	3986.8	3991.8
5°	3944.0	3951.5	3949.0	3954.0	3959.1	3959.1	3984.3	3986.8	3991.8	3954.0	3964.1
7.5°	3891.1	3891.1	3903.7	3898.6	3916.3	3911.2	3913.7	3933.9	3936.4	3926.3	3918.8
10°	3818.0	3808.0	3795.4	3795.4	3818.0	3820.6	3840.7	3843.2	3858.3	3818.0	3823.1
12.5°	3704.7	3699.7	3679.5	3689.6	3707.2	3697.2	3729.9	3732.4	3727.4	3709.7	3719.8
15°	3525.9	3546.0	3541.0	3538.5	3578.8	3573.7	3571.2	3578.8	3581.3	3571.2	3563.7
17.5°	3347.1	3364.7	3367.2	3372.3	3379.8	3387.4	3397.5	3425.2	3415.1	3407.5	3432.7
20°	3140.6	3133.0	3153.2	3173.3	3180.9	3180.9	3196.0	3216.1	3201.0	3190.9	3193.5
22.5°	2916.4	2929.0	2918.9	2939.1	2949.2	2961.8	2976.9	2994.5	2981.9	2954.2	2986.9
25°	2631.8	2639.4	2672.1	2669.6	2684.7	2714.9	2737.6	2737.6	2737.6	2735.1	2735.1
27.5°	2274.2	2269.2	2309.5	2337.2	2374.9	2422.8	2453.0	2500.9	2508.4	2500.9	2483.2
30°	1891.4	1886.4	1936.7	1972.0	2040.0	2062.7	2145.8	2191.1	2238.9	2236.4	2223.8
32.5°	1493.5	1503.5	1543.8	1594.2	1649.6	1720.1	1798.2	1898.9	1941.8	1951.8	1929.2
35°	1110.7	1125.8	1163.5	1206.4	1274.4	1352.4	1460.7	1556.4	1629.5	1629.5	1611.8
37.5°	800.9	805.9	841.2	868.9	939.4	1009.9	1103.1	1234.1	1279.4	1297.0	1279.4
40°	546.5	546.5	566.7	596.9	654.8	715.3	800.9	899.1	964.6	992.3	962.1
42.5°	347.6	352.6	367.7	387.8	430.7	483.6	549.0	622.1	669.9	690.1	662.4
45°	209.0	214.1	226.7	241.8	269.5	302.2	347.6	400.4	440.7	458.4	445.8
47.5°	125.9	131.0	136.0	146.1	166.2	188.9	211.6	241.8	267.0	269.5	264.4
50°	73.0	73.0	78.1	85.6	95.7	108.3	120.9	138.5	146.1	156.1	146.1
52.5°	47.9	47.9	47.9	50.4	55.4	60.4	65.5	75.6	80.6	80.6	78.1
55°	35.3	35.3	35.3	35.3	37.8	37.8	37.8	40.3	42.8	42.8	42.8
57.5°	25.2	25.2	25.2	27.7	27.7	27.7	25.2	25.2	25.2	25.2	25.2
60°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	17.6	17.6	17.6
62.5°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
65°	10.1	10.1	10.1	12.6	12.6	12.6	12.6	10.1	10.1	10.1	10.1
67.5°	7.6	7.6	7.6	10.1	10.1	10.1	10.1	10.1	7.6	7.6	7.6
70°	5.0	5.0	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P209378

CATALOG NUMBER: LDSQ6B50D010 EU6B30509727 6LBSQ1LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9
2.5°	4006.9	3994.3	3994.3	3994.3	3989.3	3994.3	4001.9	3989.3
5°	3964.1	3969.2	3946.5	3964.1	3971.7	3959.1	3989.3	3964.1
7.5°	3926.3	3918.8	3883.5	3908.7	3923.8	3928.9	3926.3	3906.2
10°	3850.8	3833.2	3818.0	3818.0	3813.0	3810.5	3838.2	3828.1
12.5°	3714.8	3727.4	3704.7	3717.3	3707.2	3709.7	3712.3	3707.2
15°	3598.9	3586.3	3556.1	3576.3	3563.7	3551.1	3576.3	3538.5
17.5°	3417.6	3415.1	3397.5	3384.9	3389.9	3387.4	3400.0	3382.3
20°	3203.5	3208.6	3198.5	3193.5	3185.9	3168.3	3183.4	3163.2
22.5°	2971.8	2976.9	2986.9	2966.8	2969.3	2944.1	2966.8	2944.1
25°	2737.6	2735.1	2722.5	2712.4	2684.7	2657.0	2652.0	2634.3
27.5°	2480.7	2463.1	2432.9	2400.1	2357.3	2319.5	2317.0	2304.4
30°	2198.6	2160.9	2105.5	2052.6	1987.1	1929.2	1929.2	1909.0
32.5°	1901.5	1815.8	1740.3	1674.8	1589.2	1556.4	1523.7	1506.1
35°	1546.4	1470.8	1380.1	1271.8	1231.5	1151.0	1156.0	1115.7
37.5°	1211.4	1118.2	1032.6	944.4	873.9	836.1	816.0	795.8
40°	899.1	808.4	715.3	657.3	594.4	561.6	549.0	544.0
42.5°	614.5	539.0	478.5	430.7	397.9	362.7	352.6	347.6
45°	400.4	357.6	302.2	264.4	241.8	221.6	221.6	214.1
47.5°	239.3	211.6	183.9	158.7	143.6	131.0	125.9	123.4
50°	133.5	118.4	103.3	93.2	83.1	75.6	73.0	73.0
52.5°	73.0	65.5	60.4	52.9	47.9	47.9	47.9	45.3
55°	37.8	37.8	37.8	37.8	35.3	35.3	35.3	32.7
57.5°	25.2	25.2	27.7	27.7	27.7	25.2	25.2	25.2
60°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
62.5°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
65°	10.1	12.6	12.6	12.6	12.6	10.1	10.1	10.1
67.5°	7.6	10.1	10.1	10.1	7.6	7.6	7.6	7.6
70°	7.6	7.6	7.6	7.6	7.6	5.0	5.0	5.0
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	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)