

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: P209373

Luminaire Tested: **LDSQ6B50D010 EU6B30509027 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209373
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 EU6B30509027 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: 4319.2 lumens
Efficiency: N/A
Efficacy: 73.5 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

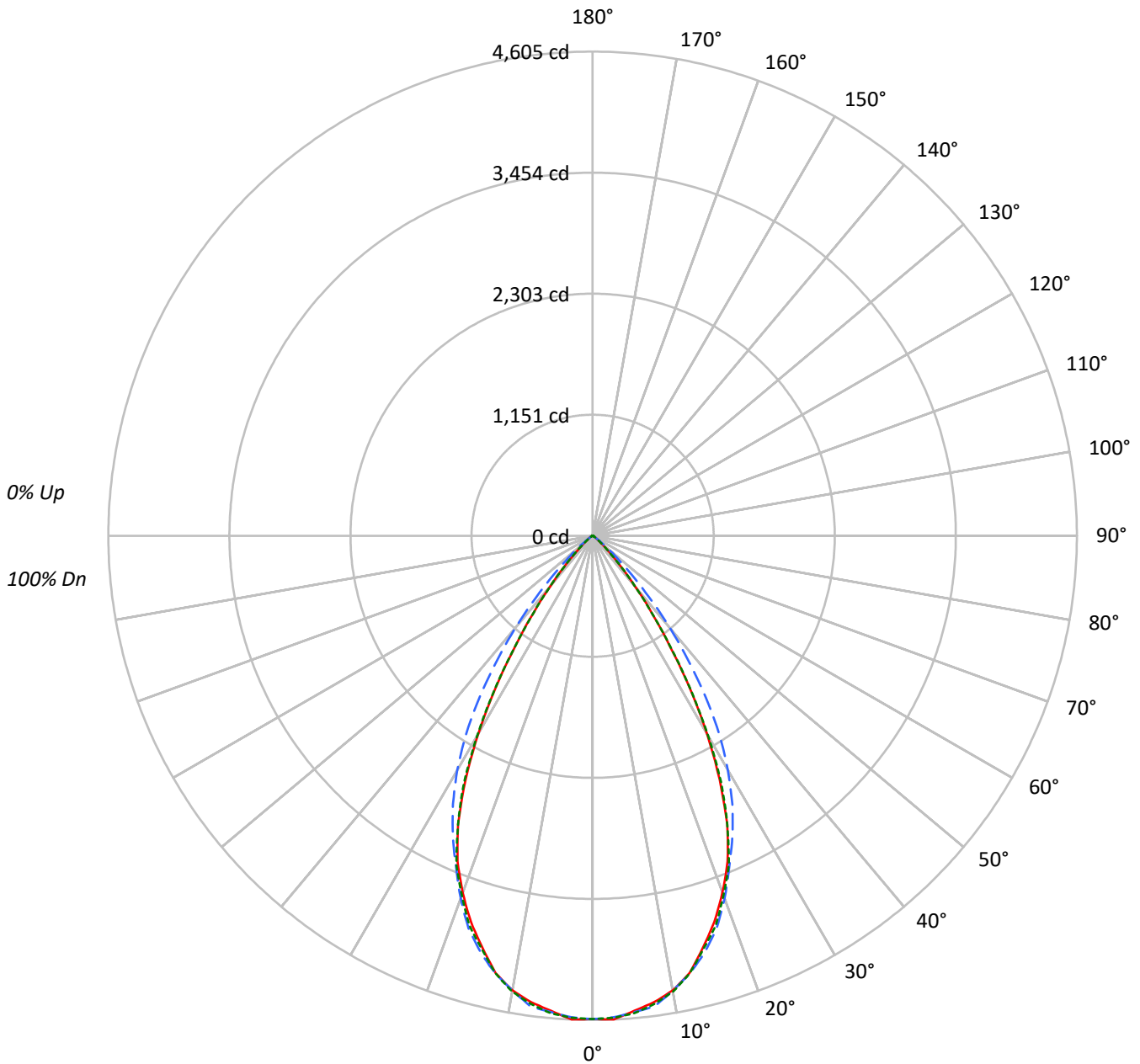
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P209373

CATALOG NUMBER: LDSQ6B50D010 EU6B30509027 6LBSQ1LI

Luminous Intensity Polar Plot





TEST NUMBER: P209373

CATALOG NUMBER: LDSQ6B50D010 EU6B30509027 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: P209373

CATALOG NUMBER: LDSQ6B50D010 EU6B30509027 6LBSQ1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.3	10.0
10°-20°	1144.6	26.5
20°-30°	1404.8	32.5
30°-40°	969.8	22.5
40°-50°	303.2	7.0
50°-60°	47.4	1.1
60°-70°	13.7	0.3
70°-80°	4.5	0.1
80°-90°	1.0	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°	2979.7	69.0
0°-40°	3949.5	91.4
0°-60°	4300.0	99.6
0°-90°	4319.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4319.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4596	4596	4596	4596	4596	
5°	4535	4553	4547	4548	4559	429
15°	4055	4113	4107	4101	4069	1134
25°	3026	3105	3145	3125	3029	1356
35°	1277	1510	1874	1525	1283	816
45°	240	329	527	326	246	215
55°	40	43	49	43	38	39
65°	12	14	12	14	12	13
75°	3	3	3	3	3	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P209373

CATALOG NUMBER: LDSQ6B50D010 EU6B30509027 6LBSQ1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4596.2	4596.2	4596.2	4596.2	4596.2	4596.2	4596.2	4596.2	4596.2	4596.2	4596.2
2.5°	4604.9	4541.2	4581.7	4573.1	4596.2	4610.7	4596.2	4622.3	4604.9	4584.6	4590.4
5°	4535.4	4544.1	4541.2	4547.0	4552.8	4552.8	4581.7	4584.6	4590.4	4547.0	4558.6
7.5°	4474.6	4474.6	4489.1	4483.3	4503.5	4497.8	4500.7	4523.8	4526.7	4515.1	4506.4
10°	4390.6	4379.0	4364.5	4364.5	4390.6	4393.5	4416.7	4419.6	4436.9	4390.6	4396.4
12.5°	4260.3	4254.5	4231.3	4242.9	4263.2	4251.6	4289.2	4292.1	4286.3	4266.1	4277.6
15°	4054.6	4077.8	4072.0	4069.1	4115.5	4109.7	4106.8	4115.5	4118.4	4106.8	4098.1
17.5°	3849.0	3869.3	3872.2	3878.0	3886.7	3895.4	3906.9	3938.8	3927.2	3918.5	3947.5
20°	3611.5	3602.8	3626.0	3649.2	3657.9	3657.9	3675.2	3698.4	3681.0	3669.5	3672.3
22.5°	3353.8	3368.2	3356.7	3379.8	3391.4	3405.9	3423.3	3443.5	3429.1	3397.2	3434.9
25°	3026.5	3035.2	3072.8	3069.9	3087.3	3122.1	3148.1	3148.1	3148.1	3145.2	3145.2
27.5°	2615.2	2609.5	2655.8	2687.6	2731.1	2786.1	2820.9	2875.9	2884.6	2875.9	2855.6
30°	2175.0	2169.2	2227.2	2267.7	2345.9	2372.0	2467.5	2519.7	2574.7	2571.8	2557.3
32.5°	1717.4	1729.0	1775.4	1833.3	1897.0	1978.1	2067.9	2183.7	2232.9	2244.5	2218.5
35°	1277.2	1294.6	1338.0	1387.3	1465.5	1555.2	1679.8	1789.8	1873.8	1873.8	1853.6
37.5°	921.0	926.8	967.3	999.2	1080.3	1161.4	1268.5	1419.1	1471.3	1491.5	1471.3
40°	628.5	628.5	651.6	686.4	753.0	822.5	921.0	1033.9	1109.2	1141.1	1106.3
42.5°	399.7	405.5	422.8	446.0	495.2	556.1	631.4	715.4	770.4	793.6	761.7
45°	240.4	246.2	260.7	278.0	309.9	347.5	399.7	460.5	506.8	527.1	512.6
47.5°	144.8	150.6	156.4	168.0	191.1	217.2	243.3	278.0	307.0	309.9	304.1
50°	84.0	84.0	89.8	98.5	110.1	124.5	139.0	159.3	168.0	179.6	168.0
52.5°	55.0	55.0	55.0	57.9	63.7	69.5	75.3	86.9	92.7	92.7	89.8
55°	40.5	40.5	40.5	40.5	43.4	43.4	43.4	46.3	49.2	49.2	49.2
57.5°	29.0	29.0	29.0	31.9	31.9	31.9	29.0	29.0	29.0	29.0	29.0
60°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	20.3	20.3	20.3
62.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
65°	11.6	11.6	11.6	14.5	14.5	14.5	14.5	11.6	11.6	11.6	11.6
67.5°	8.7	8.7	8.7	11.6	11.6	11.6	11.6	11.6	8.7	8.7	8.7
70°	5.8	5.8	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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: P209373

CATALOG NUMBER: LDSQ6B50D010 EU6B30509027 6LBSQ1LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4596.2	4596.2	4596.2	4596.2	4596.2	4596.2	4596.2	4596.2
2.5°	4607.8	4593.3	4593.3	4593.3	4587.5	4593.3	4602.0	4587.5
5°	4558.6	4564.4	4538.3	4558.6	4567.3	4552.8	4587.5	4558.6
7.5°	4515.1	4506.4	4465.9	4494.9	4512.2	4518.0	4515.1	4492.0
10°	4428.2	4408.0	4390.6	4390.6	4384.8	4381.9	4413.8	4402.2
12.5°	4271.9	4286.3	4260.3	4274.8	4263.2	4266.1	4269.0	4263.2
15°	4138.6	4124.2	4089.4	4112.6	4098.1	4083.6	4112.6	4069.1
17.5°	3930.1	3927.2	3906.9	3892.5	3898.2	3895.4	3909.8	3889.6
20°	3683.9	3689.7	3678.1	3672.3	3663.7	3643.4	3660.8	3637.6
22.5°	3417.5	3423.3	3434.9	3411.7	3414.6	3385.6	3411.7	3385.6
25°	3148.1	3145.2	3130.8	3119.2	3087.3	3055.5	3049.7	3029.4
27.5°	2852.7	2832.5	2797.7	2760.1	2710.8	2667.4	2664.5	2650.0
30°	2528.4	2484.9	2421.2	2360.4	2285.1	2218.5	2218.5	2195.3
32.5°	2186.6	2088.1	2001.3	1926.0	1827.5	1789.8	1752.2	1731.9
35°	1778.3	1691.4	1587.1	1462.6	1416.2	1323.6	1329.3	1283.0
37.5°	1393.1	1285.9	1187.4	1086.1	1005.0	961.5	938.4	915.2
40°	1033.9	929.7	822.5	755.9	683.5	645.8	631.4	625.6
42.5°	706.7	619.8	550.3	495.2	457.6	417.0	405.5	399.7
45°	460.5	411.3	347.5	304.1	278.0	254.9	254.9	246.2
47.5°	275.1	243.3	211.4	182.5	165.1	150.6	144.8	141.9
50°	153.5	136.1	118.7	107.2	95.6	86.9	84.0	84.0
52.5°	84.0	75.3	69.5	60.8	55.0	55.0	55.0	52.1
55°	43.4	43.4	43.4	43.4	40.5	40.5	40.5	37.7
57.5°	29.0	29.0	31.9	31.9	31.9	29.0	29.0	29.0
60°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
62.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
65°	11.6	14.5	14.5	14.5	14.5	11.6	11.6	11.6
67.5°	8.7	11.6	11.6	11.6	8.7	8.7	8.7	8.7
70°	8.7	8.7	8.7	8.7	8.7	5.8	5.8	5.8
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9	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)