

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: P209375

Luminaire Tested: **LDSQ6B50D010 EU6B30509035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209375
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 EU6B30509035 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 3500 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4555.2 lumens
Efficiency: N/A
Efficacy: 77.5 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

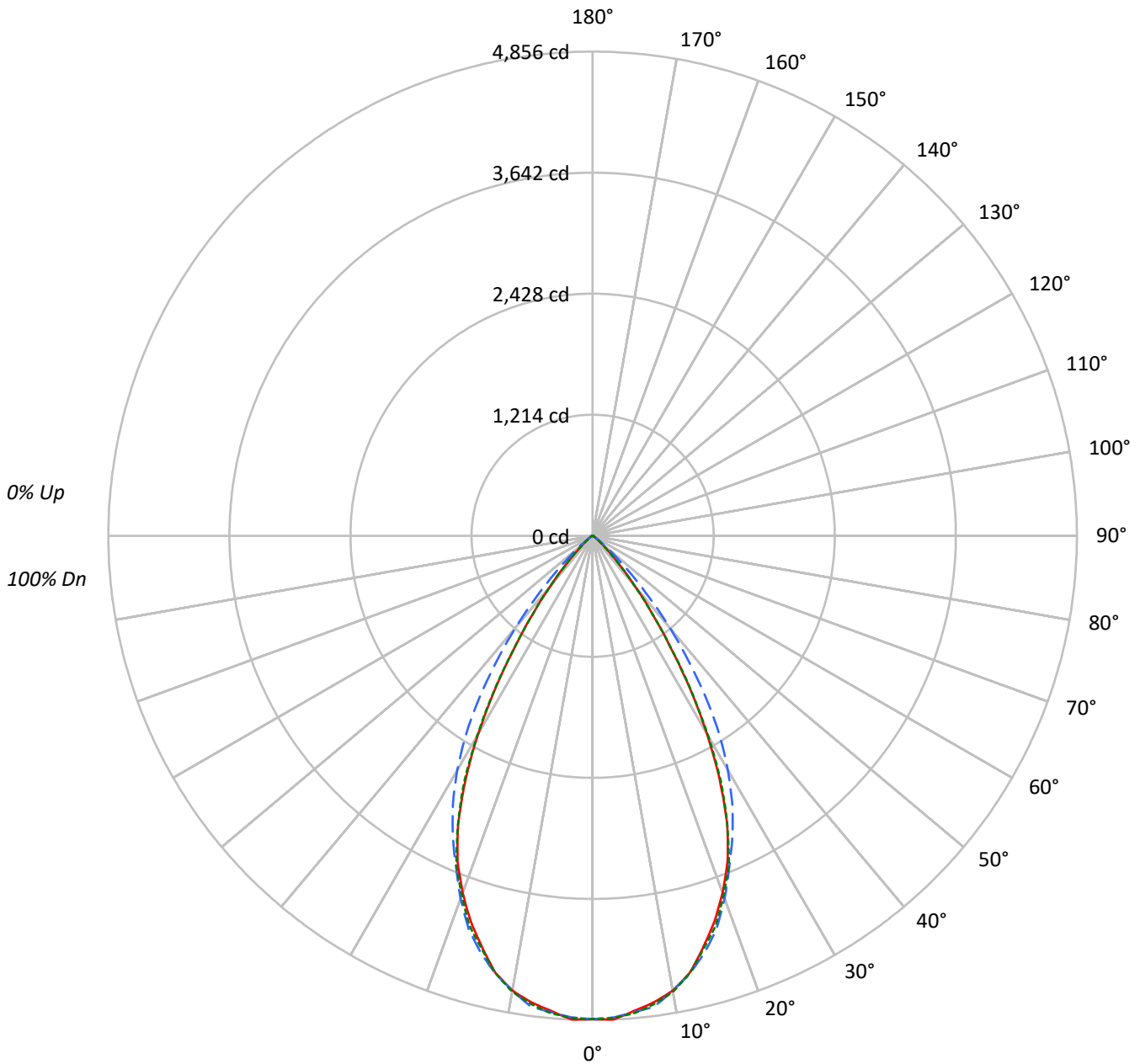
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P209375

CATALOG NUMBER: LDSQ6B50D010 EU6B30509035 6LBSQ1LI

Luminous Intensity Polar Plot





TEST NUMBER: P209375

CATALOG NUMBER: LDSQ6B50D010 EU6B30509035 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: P209375

CATALOG NUMBER: LDSQ6B50D010 EU6B30509035 6LBSQ1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.8	10.0
10°-20°	1207.2	26.5
20°-30°	1481.5	32.5
30°-40°	1022.7	22.5
40°-50°	319.8	7.0
50°-60°	49.9	1.1
60°-70°	14.4	0.3
70°-80°	4.8	0.1
80°-90°	1.1	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°	3142.5	69.0
0°-40°	4165.2	91.4
0°-60°	4534.9	99.6
0°-90°	4555.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4847	4847	4847	4847	4847	
5°	4783	4802	4795	4797	4808	452
15°	4276	4337	4331	4325	4291	1196
25°	3192	3274	3317	3296	3195	1430
35°	1347	1593	1976	1608	1353	860
45°	254	347	556	344	260	227
55°	43	46	52	46	40	42
65°	12	15	12	15	12	14
75°	3	3	3	3	3	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P209375

CATALOG NUMBER: LDSQ6B50D010 EU6B30509035 6LBSQ1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4847.3	4847.3	4847.3	4847.3	4847.3	4847.3	4847.3	4847.3	4847.3	4847.3	4847.3
2.5°	4856.5	4789.3	4832.0	4822.9	4847.3	4862.6	4847.3	4874.8	4856.5	4835.1	4841.2
5°	4783.2	4792.3	4789.3	4795.4	4801.5	4801.5	4832.0	4835.1	4841.2	4795.4	4807.6
7.5°	4719.0	4719.0	4734.3	4728.2	4749.6	4743.5	4746.5	4771.0	4774.0	4761.8	4752.6
10°	4630.5	4618.2	4603.0	4603.0	4630.5	4633.5	4657.9	4661.0	4679.3	4630.5	4636.6
12.5°	4493.0	4486.9	4462.5	4474.7	4496.1	4483.8	4523.5	4526.6	4520.5	4499.1	4511.3
15°	4276.1	4300.6	4294.5	4291.4	4340.3	4334.2	4331.1	4340.3	4343.3	4331.1	4322.0
17.5°	4059.3	4080.7	4083.7	4089.8	4099.0	4108.2	4120.4	4154.0	4141.8	4132.6	4163.1
20°	3808.8	3799.7	3824.1	3848.5	3857.7	3857.7	3876.0	3900.5	3882.1	3869.9	3873.0
22.5°	3537.0	3552.3	3540.0	3564.5	3576.7	3592.0	3610.3	3631.7	3616.4	3582.8	3622.5
25°	3191.8	3201.0	3240.7	3237.7	3256.0	3292.6	3320.1	3320.1	3320.1	3317.1	3317.1
27.5°	2758.1	2752.0	2800.9	2834.5	2880.3	2938.3	2975.0	3033.0	3042.2	3033.0	3011.6
30°	2293.8	2287.7	2348.8	2391.6	2474.1	2501.5	2602.3	2657.3	2715.4	2712.3	2697.0
32.5°	1811.3	1823.5	1872.3	1933.4	2000.6	2086.1	2180.8	2303.0	2354.9	2367.2	2339.7
35°	1347.0	1365.3	1411.1	1463.1	1545.5	1640.2	1771.5	1887.6	1976.2	1976.2	1954.8
37.5°	971.3	977.4	1020.2	1053.8	1139.3	1224.8	1337.8	1496.7	1551.6	1573.0	1551.6
40°	662.8	662.8	687.2	723.9	794.1	867.4	971.3	1090.4	1169.8	1203.4	1166.8
42.5°	421.5	427.6	445.9	470.4	522.3	586.4	665.9	754.4	812.5	836.9	803.3
45°	253.5	259.6	274.9	293.2	326.8	366.5	421.5	485.6	534.5	555.9	540.6
47.5°	152.7	158.8	164.9	177.2	201.6	229.1	256.6	293.2	323.8	326.8	320.7
50°	88.6	88.6	94.7	103.8	116.1	131.3	146.6	168.0	177.2	189.4	177.2
52.5°	58.0	58.0	58.0	61.1	67.2	73.3	79.4	91.6	97.7	97.7	94.7
55°	42.8	42.8	42.8	42.8	45.8	45.8	45.8	48.9	51.9	51.9	51.9
57.5°	30.5	30.5	30.5	33.6	33.6	33.6	30.5	30.5	30.5	30.5	30.5
60°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	21.4	21.4	21.4
62.5°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
65°	12.2	12.2	12.2	15.3	15.3	15.3	15.3	12.2	12.2	12.2	12.2
67.5°	9.2	9.2	9.2	12.2	12.2	12.2	12.2	12.2	9.2	9.2	9.2
70°	6.1	6.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P209375

CATALOG NUMBER: LDSQ6B50D010 EU6B30509035 6LBSQ1LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4847.3	4847.3	4847.3	4847.3	4847.3	4847.3	4847.3	4847.3
2.5°	4859.5	4844.3	4844.3	4844.3	4838.2	4844.3	4853.4	4838.2
5°	4807.6	4813.7	4786.2	4807.6	4816.8	4801.5	4838.2	4807.6
7.5°	4761.8	4752.6	4709.9	4740.4	4758.7	4764.8	4761.8	4737.4
10°	4670.2	4648.8	4630.5	4630.5	4624.3	4621.3	4654.9	4642.7
12.5°	4505.2	4520.5	4493.0	4508.3	4496.1	4499.1	4502.2	4496.1
15°	4364.7	4349.4	4312.8	4337.2	4322.0	4306.7	4337.2	4291.4
17.5°	4144.8	4141.8	4120.4	4105.1	4111.2	4108.2	4123.4	4102.0
20°	3885.2	3891.3	3879.1	3873.0	3863.8	3842.4	3860.7	3836.3
22.5°	3604.2	3610.3	3622.5	3598.1	3601.1	3570.6	3598.1	3570.6
25°	3320.1	3317.1	3301.8	3289.6	3256.0	3222.4	3216.3	3194.9
27.5°	3008.6	2987.2	2950.5	2910.8	2858.9	2813.1	2810.0	2794.8
30°	2666.5	2620.7	2553.5	2489.3	2409.9	2339.7	2339.7	2315.2
32.5°	2306.1	2202.2	2110.6	2031.2	1927.3	1887.6	1847.9	1826.5
35°	1875.4	1783.8	1673.8	1542.5	1493.6	1395.9	1402.0	1353.1
37.5°	1469.2	1356.1	1252.3	1145.4	1059.9	1014.1	989.6	965.2
40°	1090.4	980.5	867.4	797.2	720.8	681.1	665.9	659.7
42.5°	745.3	653.6	580.3	522.3	482.6	439.8	427.6	421.5
45°	485.6	433.7	366.5	320.7	293.2	268.8	268.8	259.6
47.5°	290.2	256.6	223.0	192.4	174.1	158.8	152.7	149.7
50°	161.9	143.6	125.2	113.0	100.8	91.6	88.6	88.6
52.5°	88.6	79.4	73.3	64.1	58.0	58.0	58.0	55.0
55°	45.8	45.8	45.8	45.8	42.8	42.8	42.8	39.7
57.5°	30.5	30.5	33.6	33.6	33.6	30.5	30.5	30.5
60°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
62.5°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
65°	12.2	15.3	15.3	15.3	15.3	12.2	12.2	12.2
67.5°	9.2	12.2	12.2	12.2	9.2	9.2	9.2	9.2
70°	9.2	9.2	9.2	9.2	9.2	6.1	6.1	6.1
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1	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)