

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: P209321

Luminaire Tested: **LDSQ6B15D010 EU6B10209024 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209321
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: LDSQ6B15D010 EU6B10209024 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-14.39 W DE010-14.29 W D5LT-14.34 W DMX-14.46 W DL2-15.8 W
DL3-15.28 W DLE-15.432 W
Light Source: HIGH LUMEN LED 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1051.4 lumens
Efficiency: N/A
Efficacy: 73.1 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

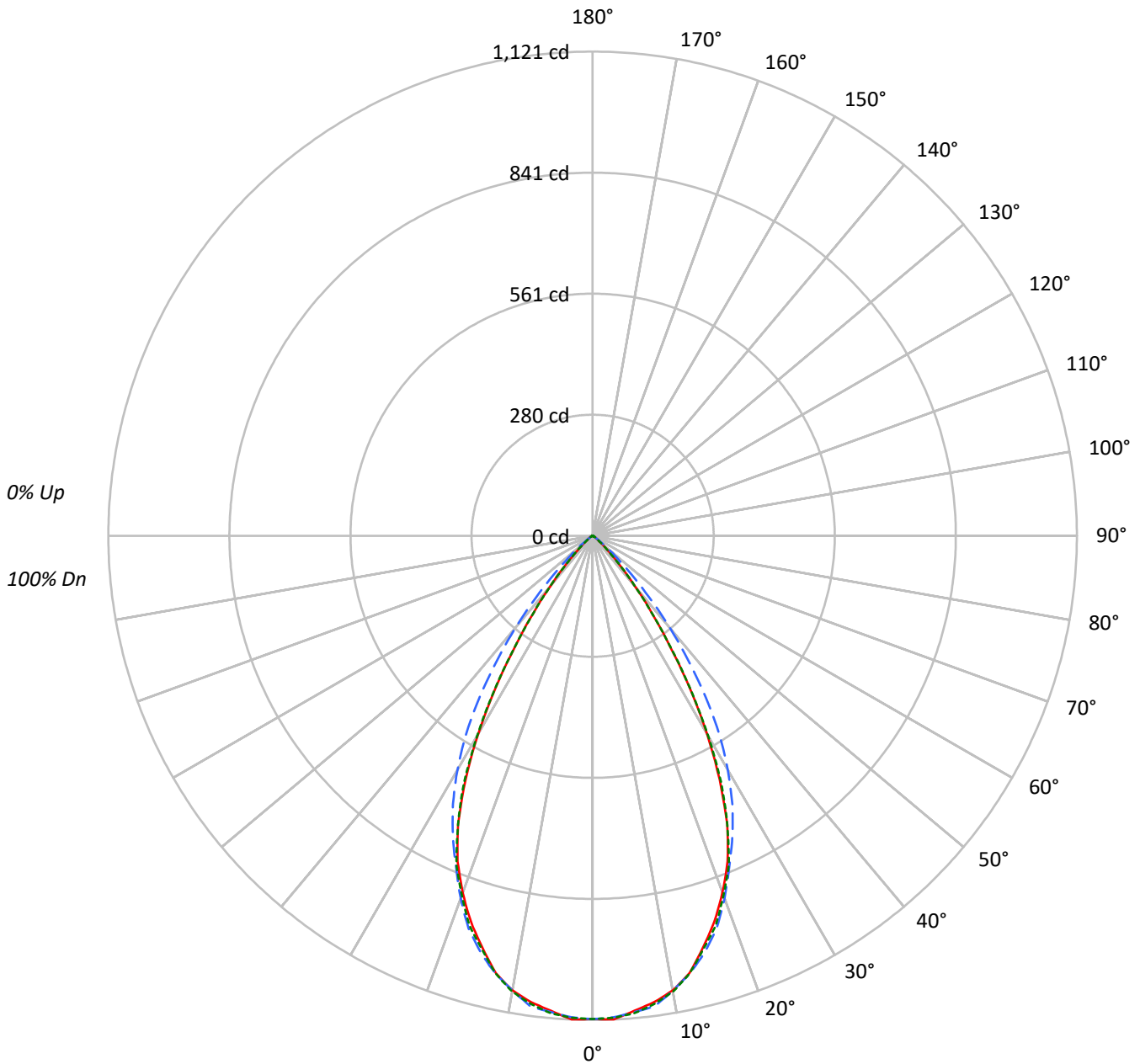
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	82	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°	104.7	10.0
10°-20°	278.6	26.5
20°-30°	342.0	32.5
30°-40°	236.1	22.5
40°-50°	73.8	7.0
50°-60°	11.5	1.1
60°-70°	3.3	0.3
70°-80°	1.1	0.1
80°-90°	0.2	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°	725.3	69.0
0°-40°	961.4	91.4
0°-60°	1046.7	99.6
0°-90°	1051.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1051.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1104	1108	1107	1107	1110	104
15°	987	1001	1000	998	990	276
25°	737	756	766	761	737	330
35°	311	368	456	371	312	199
45°	58	80	128	79	60	52
55°	10	11	12	11	9	10
65°	3	4	3	4	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1120.9	1105.4	1115.3	1113.2	1118.8	1122.4	1118.8	1125.2	1120.9	1116.0	1117.4
5°	1104.0	1106.1	1105.4	1106.8	1108.3	1108.3	1115.3	1116.0	1117.4	1106.8	1109.7
7.5°	1089.2	1089.2	1092.7	1091.3	1096.3	1094.9	1095.6	1101.2	1101.9	1099.1	1097.0
10°	1068.8	1066.0	1062.4	1062.4	1068.8	1069.5	1075.1	1075.8	1080.1	1068.8	1070.2
12.5°	1037.0	1035.6	1030.0	1032.8	1037.8	1034.9	1044.1	1044.8	1043.4	1038.5	1041.3
15°	987.0	992.6	991.2	990.5	1001.8	1000.4	999.7	1001.8	1002.5	999.7	997.6
17.5°	936.9	941.9	942.6	944.0	946.1	948.2	951.0	958.8	956.0	953.9	960.9
20°	879.1	877.0	882.7	888.3	890.4	890.4	894.6	900.3	896.1	893.2	893.9
22.5°	816.4	819.9	817.1	822.7	825.6	829.1	833.3	838.2	834.7	827.0	836.1
25°	736.7	738.8	748.0	747.3	751.5	760.0	766.3	766.3	766.3	765.6	765.6
27.5°	636.6	635.2	646.5	654.2	664.8	678.2	686.7	700.1	702.2	700.1	695.1
30°	529.5	528.0	542.1	552.0	571.0	577.4	600.7	613.3	626.7	626.0	622.5
32.5°	418.1	420.9	432.2	446.3	461.8	481.5	503.4	531.6	543.6	546.4	540.0
35°	310.9	315.1	325.7	337.7	356.7	378.6	408.9	435.7	456.1	456.1	451.2
37.5°	224.2	225.6	235.5	243.2	263.0	282.7	308.8	345.4	358.1	363.1	358.1
40°	153.0	153.0	158.6	167.1	183.3	200.2	224.2	251.7	270.0	277.8	269.3
42.5°	97.3	98.7	102.9	108.6	120.6	135.4	153.7	174.1	187.5	193.2	185.4
45°	58.5	59.9	63.4	67.7	75.4	84.6	97.3	112.1	123.4	128.3	124.8
47.5°	35.2	36.7	38.1	40.9	46.5	52.9	59.2	67.7	74.7	75.4	74.0
50°	20.4	20.4	21.9	24.0	26.8	30.3	33.8	38.8	40.9	43.7	40.9
52.5°	13.4	13.4	13.4	14.1	15.5	16.9	18.3	21.1	22.6	22.6	21.9
55°	9.9	9.9	9.9	9.9	10.6	10.6	10.6	11.3	12.0	12.0	12.0
57.5°	7.0	7.0	7.0	7.8	7.8	7.8	7.0	7.0	7.0	7.0	7.0
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.9	4.9
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	2.8	2.8	2.8	3.5	3.5	3.5	3.5	2.8	2.8	2.8	2.8
67.5°	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1
70°	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1121.6	1118.1	1118.1	1118.1	1116.7	1118.1	1120.2	1116.7
5°	1109.7	1111.1	1104.7	1109.7	1111.8	1108.3	1116.7	1109.7
7.5°	1099.1	1097.0	1087.1	1094.2	1098.4	1099.8	1099.1	1093.4
10°	1077.9	1073.0	1068.8	1068.8	1067.4	1066.7	1074.4	1071.6
12.5°	1039.9	1043.4	1037.0	1040.6	1037.8	1038.5	1039.2	1037.8
15°	1007.4	1003.9	995.5	1001.1	997.6	994.0	1001.1	990.5
17.5°	956.7	956.0	951.0	947.5	948.9	948.2	951.7	946.8
20°	896.8	898.2	895.3	893.9	891.8	886.9	891.1	885.5
22.5°	831.9	833.3	836.1	830.5	831.2	824.1	830.5	824.1
25°	766.3	765.6	762.1	759.3	751.5	743.8	742.4	737.4
27.5°	694.4	689.5	681.0	671.9	659.9	649.3	648.6	645.1
30°	615.5	604.9	589.4	574.6	556.2	540.0	540.0	534.4
32.5°	532.3	508.3	487.2	468.8	444.9	435.7	426.5	421.6
35°	432.9	411.7	386.3	356.0	344.7	322.2	323.6	312.3
37.5°	339.1	313.0	289.0	264.4	244.6	234.1	228.4	222.8
40°	251.7	226.3	200.2	184.0	166.4	157.2	153.7	152.3
42.5°	172.0	150.9	133.9	120.6	111.4	101.5	98.7	97.3
45°	112.1	100.1	84.6	74.0	67.7	62.0	62.0	59.9
47.5°	67.0	59.2	51.5	44.4	40.2	36.7	35.2	34.5
50°	37.4	33.1	28.9	26.1	23.3	21.1	20.4	20.4
52.5°	20.4	18.3	16.9	14.8	13.4	13.4	13.4	12.7
55°	10.6	10.6	10.6	10.6	9.9	9.9	9.9	9.2
57.5°	7.0	7.0	7.8	7.8	7.8	7.0	7.0	7.0
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	2.8	3.5	3.5	3.5	3.5	2.8	2.8	2.8
67.5°	2.1	2.8	2.8	2.8	2.1	2.1	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	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)