

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: P209305

Luminaire Tested: **LDSQ6B10D010 EU6B10208030 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209305
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: LDSQ6B10D010 EU6B10208030 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W
DL3-11.1 W DLE-11.39 W
Light Source: HIGH LUMEN LED 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1051.5 lumens
Efficiency: N/A
Efficacy: 104.6 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

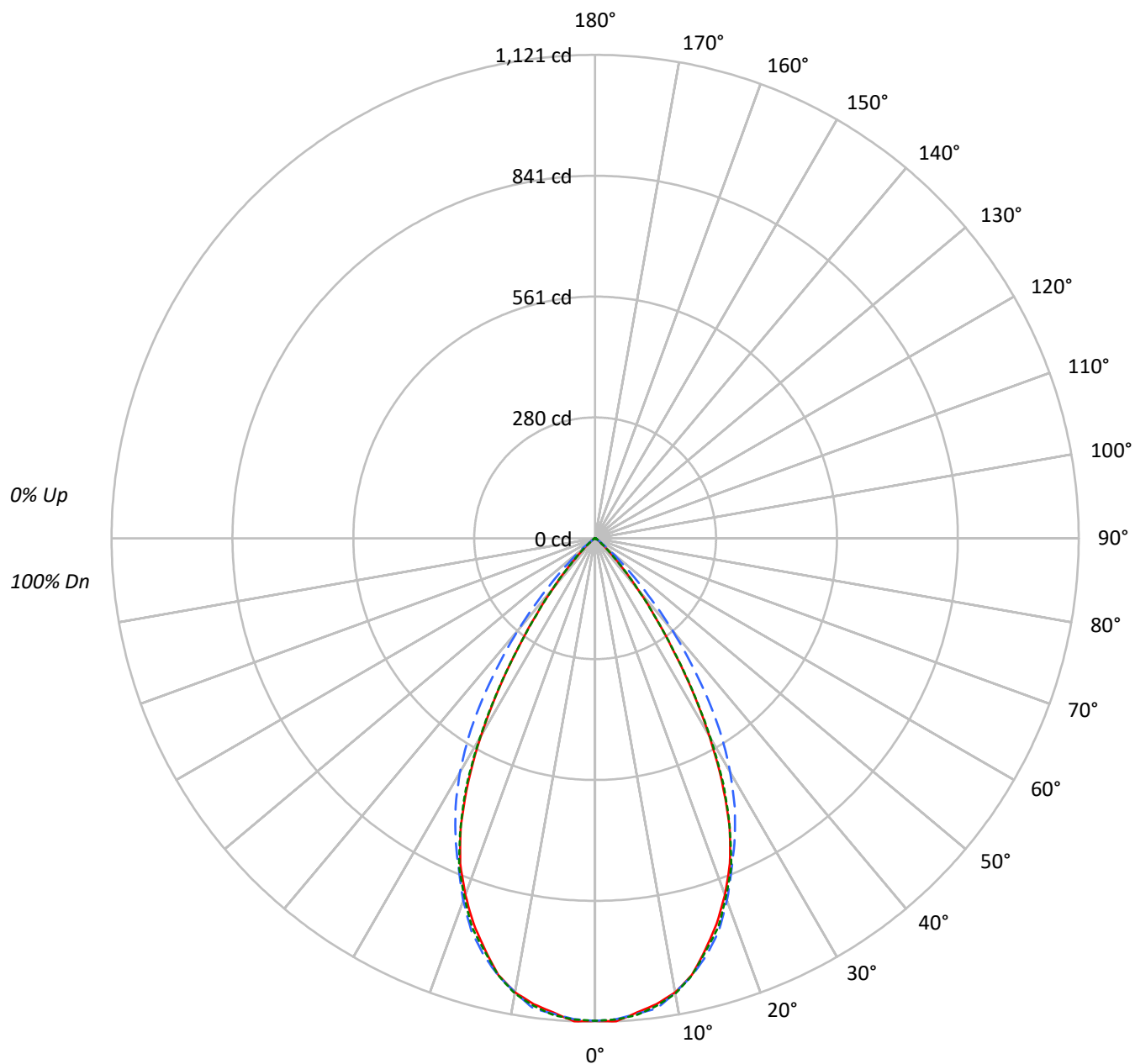
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	82	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	67	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	64	59	55	64	58	55		63	58	54		62
10	71	61	55	52	70	61	55	51	60	55	51		59	55	51		59

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°	104.8	10.0
10°-20°	278.7	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°	725.4	69.0
0°-40°	961.5	91.4
0°-60°	1046.9	99.6
0°-90°	1051.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1051.5	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	991	276
25°	737	756	766	761	738	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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0
2.5°	1121.1	1105.6	1115.5	1113.4	1119.0	1122.5	1119.0	1125.3	1121.1	1116.2	1117.6
5°	1104.2	1106.3	1105.6	1107.0	1108.4	1108.4	1115.5	1116.2	1117.6	1107.0	1109.8
7.5°	1089.4	1089.4	1092.9	1091.5	1096.4	1095.0	1095.7	1101.4	1102.1	1099.3	1097.1
10°	1068.9	1066.1	1062.6	1062.6	1068.9	1069.6	1075.3	1076.0	1080.2	1068.9	1070.3
12.5°	1037.2	1035.8	1030.2	1033.0	1037.9	1035.1	1044.3	1045.0	1043.6	1038.6	1041.4
15°	987.1	992.8	991.4	990.7	1002.0	1000.5	999.8	1002.0	1002.7	999.8	997.7
17.5°	937.1	942.0	942.7	944.1	946.2	948.4	951.2	958.9	956.1	954.0	961.1
20°	879.3	877.1	882.8	888.4	890.5	890.5	894.8	900.4	896.2	893.4	894.1
22.5°	816.5	820.0	817.2	822.9	825.7	829.2	833.4	838.4	834.8	827.1	836.3
25°	736.8	738.9	748.1	747.4	751.6	760.1	766.4	766.4	766.4	765.7	765.7
27.5°	636.7	635.3	646.6	654.3	664.9	678.3	686.8	700.2	702.3	700.2	695.2
30°	529.5	528.1	542.2	552.1	571.1	577.5	600.7	613.4	626.8	626.1	622.6
32.5°	418.1	420.9	432.2	446.3	461.8	481.6	503.4	531.6	543.6	546.5	540.1
35°	311.0	315.2	325.8	337.7	356.8	378.6	409.0	435.8	456.2	456.2	451.3
37.5°	224.2	225.6	235.5	243.3	263.0	282.7	308.8	345.5	358.2	363.1	358.2
40°	153.0	153.0	158.6	167.1	183.3	200.2	224.2	251.7	270.1	277.8	269.3
42.5°	97.3	98.7	102.9	108.6	120.6	135.4	153.7	174.2	187.6	193.2	185.4
45°	58.5	59.9	63.5	67.7	75.4	84.6	97.3	112.1	123.4	128.3	124.8
47.5°	35.3	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	21.2	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°	7.1	7.1	7.1	7.8	7.8	7.8	7.1	7.1	7.1	7.1	7.1
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°	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0
2.5°	1121.8	1118.3	1118.3	1118.3	1116.9	1118.3	1120.4	1116.9
5°	1109.8	1111.2	1104.9	1109.8	1111.9	1108.4	1116.9	1109.8
7.5°	1099.3	1097.1	1087.3	1094.3	1098.5	1100.0	1099.3	1093.6
10°	1078.1	1073.2	1068.9	1068.9	1067.5	1066.8	1074.6	1071.8
12.5°	1040.0	1043.6	1037.2	1040.7	1037.9	1038.6	1039.3	1037.9
15°	1007.6	1004.1	995.6	1001.2	997.7	994.2	1001.2	990.7
17.5°	956.8	956.1	951.2	947.7	949.1	948.4	951.9	947.0
20°	896.9	898.3	895.5	894.1	892.0	887.0	891.2	885.6
22.5°	832.0	833.4	836.3	830.6	831.3	824.3	830.6	824.3
25°	766.4	765.7	762.2	759.4	751.6	743.9	742.5	737.5
27.5°	694.5	689.6	681.1	672.0	660.0	649.4	648.7	645.2
30°	615.6	605.0	589.5	574.7	556.3	540.1	540.1	534.5
32.5°	532.4	508.4	487.2	468.9	444.9	435.8	426.6	421.7
35°	432.9	411.8	386.4	356.1	344.8	322.2	323.6	312.4
37.5°	339.2	313.1	289.1	264.4	244.7	234.1	228.5	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	134.0	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	35.3	34.6
50°	37.4	33.1	28.9	26.1	23.3	21.2	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°	7.1	7.1	7.8	7.8	7.8	7.1	7.1	7.1
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)