

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: P209386

Luminaire Tested: **LDSQ6B60D010 EU6B60709027 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209386
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: LDSQ6B60D010 EU6B60709027 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: 4886.5 lumens
Efficiency: N/A
Efficacy: 78.2 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

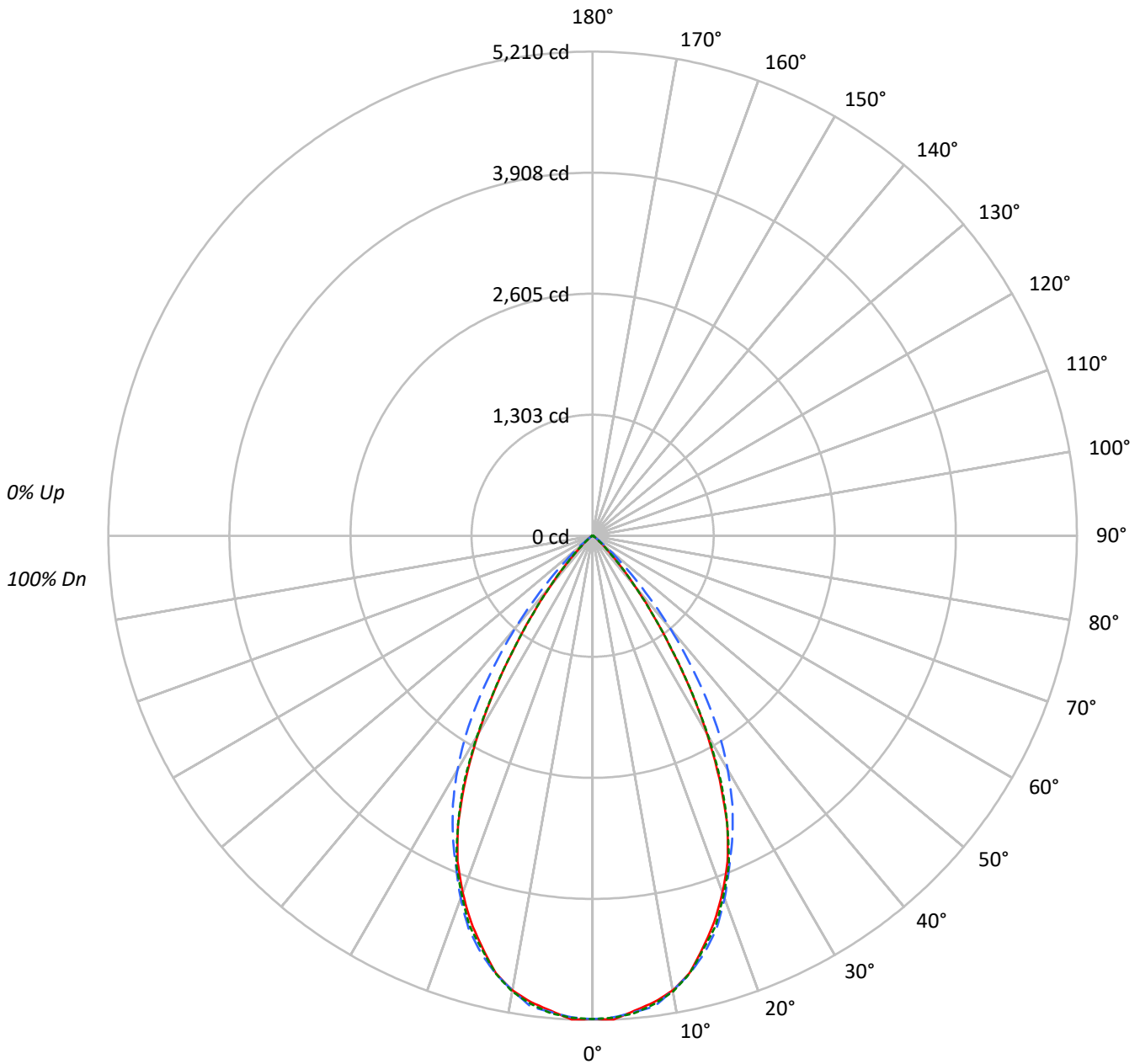
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.8	10.0
10°-20°	1295.0	26.5
20°-30°	1589.3	32.5
30°-40°	1097.1	22.5
40°-50°	343.0	7.0
50°-60°	53.6	1.1
60°-70°	15.5	0.3
70°-80°	5.1	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°	3371.0	69.0
0°-40°	4468.2	91.4
0°-60°	4864.7	99.6
0°-90°	4886.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4886.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5200	5200	5200	5200	5200	
5°	5131	5151	5144	5146	5157	485
15°	4587	4653	4646	4640	4604	1283
25°	3424	3512	3558	3535	3427	1534
35°	1445	1709	2120	1725	1452	923
45°	272	372	596	369	278	244
55°	46	49	56	49	43	45
65°	13	16	13	16	13	15
75°	3	3	3	3	3	5
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°	5199.9	5199.9	5199.9	5199.9	5199.9	5199.9	5199.9	5199.9	5199.9	5199.9	5199.9
2.5°	5209.7	5137.6	5183.5	5173.7	5199.9	5216.3	5199.9	5229.4	5209.7	5186.8	5193.3
5°	5131.1	5140.9	5137.6	5144.2	5150.7	5150.7	5183.5	5186.8	5193.3	5144.2	5157.3
7.5°	5062.3	5062.3	5078.6	5072.1	5095.0	5088.5	5091.7	5118.0	5121.2	5108.1	5098.3
10°	4967.2	4954.1	4937.7	4937.7	4967.2	4970.5	4996.7	5000.0	5019.7	4967.2	4973.8
12.5°	4819.8	4813.2	4787.0	4800.1	4823.1	4810.0	4852.6	4855.8	4849.3	4826.3	4839.4
15°	4587.2	4613.4	4606.8	4603.5	4656.0	4649.4	4646.1	4656.0	4659.2	4646.1	4636.3
17.5°	4354.5	4377.5	4380.7	4387.3	4397.1	4406.9	4420.1	4456.1	4443.0	4433.2	4465.9
20°	4085.8	4076.0	4102.2	4128.4	4138.3	4138.3	4157.9	4184.1	4164.5	4151.4	4154.7
22.5°	3794.2	3810.6	3797.5	3823.7	3836.8	3853.2	3872.9	3895.8	3879.4	3843.4	3886.0
25°	3424.0	3433.8	3476.4	3473.1	3492.8	3532.1	3561.6	3561.6	3561.6	3558.3	3558.3
27.5°	2958.7	2952.2	3004.6	3040.6	3089.8	3152.0	3191.3	3253.6	3263.4	3253.6	3230.7
30°	2460.7	2454.1	2519.7	2565.5	2654.0	2683.5	2791.6	2850.6	2912.8	2909.6	2893.2
32.5°	1943.0	1956.1	2008.5	2074.0	2146.1	2237.9	2339.4	2470.5	2526.2	2539.3	2509.8
35°	1445.0	1464.6	1513.8	1569.5	1657.9	1759.5	1900.4	2024.9	2119.9	2119.9	2097.0
37.5°	1041.9	1048.5	1094.4	1130.4	1222.1	1313.9	1435.1	1605.5	1664.5	1687.4	1664.5
40°	711.0	711.0	737.2	776.5	851.9	930.5	1041.9	1169.7	1254.9	1291.0	1251.6
42.5°	452.2	458.7	478.4	504.6	560.3	629.1	714.3	809.3	871.6	897.8	861.7
45°	272.0	278.5	294.9	314.5	350.6	393.2	452.2	521.0	573.4	596.3	579.9
47.5°	163.8	170.4	176.9	190.0	216.3	245.7	275.2	314.5	347.3	350.6	344.0
50°	95.0	95.0	101.6	111.4	124.5	140.9	157.3	180.2	190.0	203.1	190.0
52.5°	62.3	62.3	62.3	65.5	72.1	78.6	85.2	98.3	104.8	104.8	101.6
55°	45.9	45.9	45.9	45.9	49.1	49.1	49.1	52.4	55.7	55.7	55.7
57.5°	32.8	32.8	32.8	36.0	36.0	36.0	32.8	32.8	32.8	32.8	32.8
60°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	22.9	22.9	22.9
62.5°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
65°	13.1	13.1	13.1	16.4	16.4	16.4	16.4	13.1	13.1	13.1	13.1
67.5°	9.8	9.8	9.8	13.1	13.1	13.1	13.1	13.1	9.8	9.8	9.8
70°	6.6	6.6	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
72.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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°	5199.9	5199.9	5199.9	5199.9	5199.9	5199.9	5199.9	5199.9
2.5°	5213.0	5196.6	5196.6	5196.6	5190.0	5196.6	5206.4	5190.0
5°	5157.3	5163.8	5134.3	5157.3	5167.1	5150.7	5190.0	5157.3
7.5°	5108.1	5098.3	5052.4	5085.2	5104.8	5111.4	5108.1	5081.9
10°	5009.8	4986.9	4967.2	4967.2	4960.7	4957.4	4993.4	4980.3
12.5°	4832.9	4849.3	4819.8	4836.2	4823.1	4826.3	4829.6	4823.1
15°	4682.2	4665.8	4626.5	4652.7	4636.3	4619.9	4652.7	4603.5
17.5°	4446.3	4443.0	4420.1	4403.7	4410.2	4406.9	4423.3	4400.4
20°	4167.8	4174.3	4161.2	4154.7	4144.8	4121.9	4141.5	4115.3
22.5°	3866.3	3872.9	3886.0	3859.8	3863.0	3830.3	3859.8	3830.3
25°	3561.6	3558.3	3541.9	3528.8	3492.8	3456.7	3450.2	3427.3
27.5°	3227.4	3204.5	3165.1	3122.5	3066.8	3017.7	3014.4	2998.0
30°	2860.4	2811.3	2739.2	2670.4	2585.2	2509.8	2509.8	2483.6
32.5°	2473.8	2362.4	2264.1	2178.9	2067.5	2024.9	1982.3	1959.4
35°	2011.8	1913.5	1795.5	1654.7	1602.2	1497.4	1503.9	1451.5
37.5°	1576.0	1454.8	1343.4	1228.7	1137.0	1087.8	1061.6	1035.4
40°	1169.7	1051.8	930.5	855.2	773.3	730.7	714.3	707.7
42.5°	799.5	701.2	622.5	560.3	517.7	471.8	458.7	452.2
45°	521.0	465.3	393.2	344.0	314.5	288.3	288.3	278.5
47.5°	311.3	275.2	239.2	206.4	186.8	170.4	163.8	160.6
50°	173.7	154.0	134.3	121.2	108.1	98.3	95.0	95.0
52.5°	95.0	85.2	78.6	68.8	62.3	62.3	62.3	59.0
55°	49.1	49.1	49.1	49.1	45.9	45.9	45.9	42.6
57.5°	32.8	32.8	36.0	36.0	36.0	32.8	32.8	32.8
60°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
62.5°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
65°	13.1	16.4	16.4	16.4	16.4	13.1	13.1	13.1
67.5°	9.8	13.1	13.1	13.1	9.8	9.8	9.8	9.8
70°	9.8	9.8	9.8	9.8	9.8	6.6	6.6	6.6
72.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	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)