

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: P209379

Luminaire Tested: **LDSQ6B50D010 EU6B30509730 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209379
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 EU6B30509730 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 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3925.4 lumens
Efficiency: N/A
Efficacy: 66.8 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

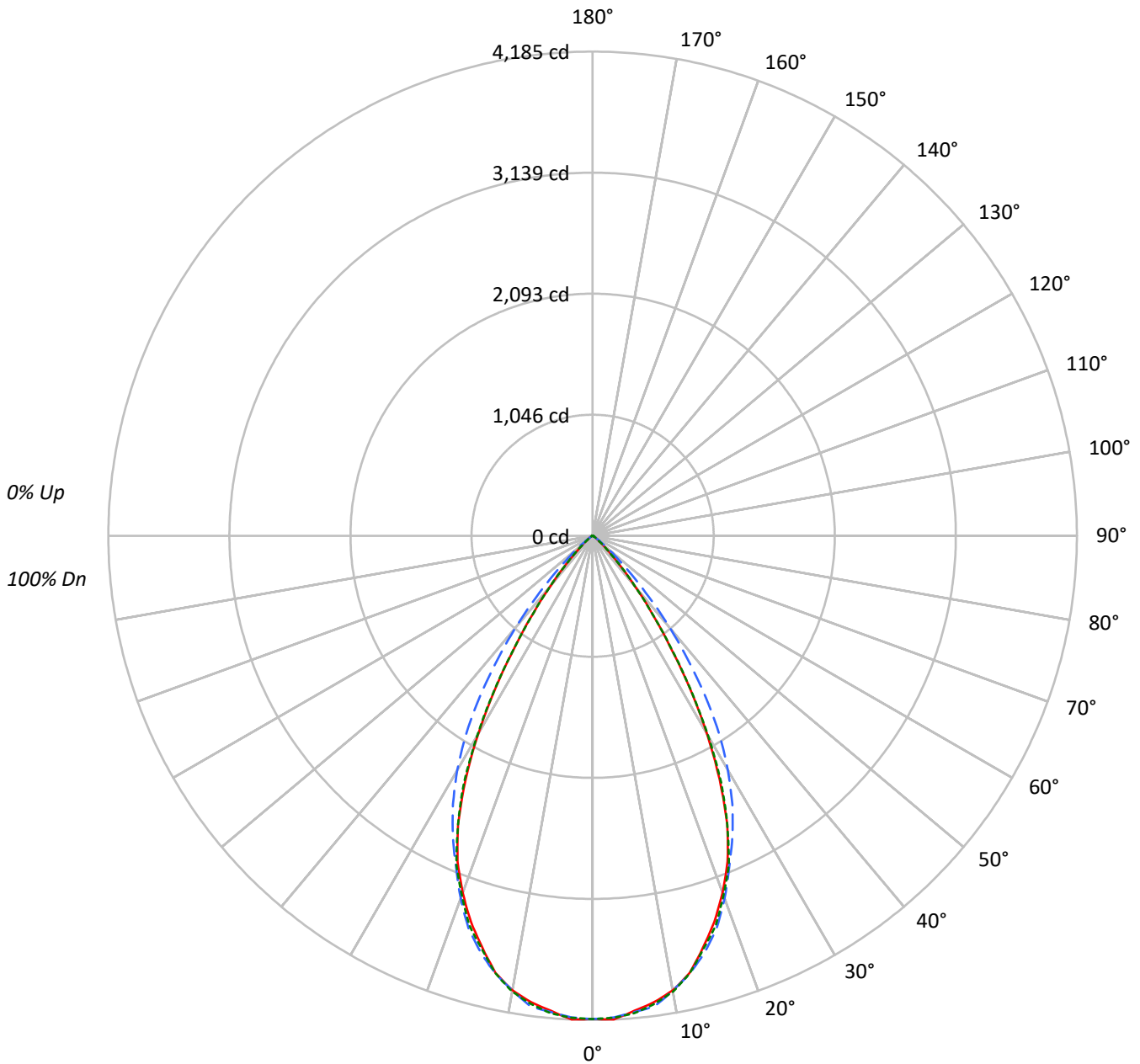
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	391.1	10.0
10°-20°	1040.3	26.5
20°-30°	1276.7	32.5
30°-40°	881.4	22.5
40°-50°	275.6	7.0
50°-60°	43.0	1.1
60°-70°	12.5	0.3
70°-80°	4.1	0.1
80°-90°	0.9	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°	2708.1	69.0
0°-40°	3589.4	91.4
0°-60°	3908.0	99.6
0°-90°	3925.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4177	4177	4177	4177	4177	
5°	4122	4138	4132	4134	4143	390
15°	3685	3738	3732	3727	3698	1031
25°	2751	2822	2858	2840	2753	1232
35°	1161	1373	1703	1386	1166	742
45°	218	299	479	296	224	196
55°	37	40	45	40	34	36
65°	10	13	10	13	10	12
75°	3	3	3	3	3	4
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°	4177.2	4177.2	4177.2	4177.2	4177.2	4177.2	4177.2	4177.2	4177.2	4177.2	4177.2
2.5°	4185.1	4127.2	4164.0	4156.1	4177.2	4190.4	4177.2	4200.9	4185.1	4166.7	4171.9
5°	4121.9	4129.8	4127.2	4132.5	4137.7	4137.7	4164.0	4166.7	4171.9	4132.5	4143.0
7.5°	4066.7	4066.7	4079.8	4074.5	4093.0	4087.7	4090.3	4111.4	4114.0	4103.5	4095.6
10°	3990.3	3979.8	3966.6	3966.6	3990.3	3993.0	4014.0	4016.6	4032.4	3990.3	3995.6
12.5°	3871.9	3866.6	3845.6	3856.1	3874.5	3864.0	3898.2	3900.8	3895.6	3877.1	3887.7
15°	3685.0	3706.0	3700.8	3698.2	3740.3	3735.0	3732.4	3740.3	3742.9	3732.4	3724.5
17.5°	3498.1	3516.5	3519.2	3524.4	3532.3	3540.2	3550.8	3579.7	3569.2	3561.3	3587.6
20°	3282.3	3274.4	3295.4	3316.5	3324.4	3324.4	3340.2	3361.2	3345.4	3334.9	3337.6
22.5°	3048.0	3061.2	3050.6	3071.7	3082.2	3095.4	3111.2	3129.6	3116.5	3087.5	3121.7
25°	2750.6	2758.5	2792.7	2790.1	2805.9	2837.4	2861.1	2861.1	2861.1	2858.5	2858.5
27.5°	2376.8	2371.6	2413.7	2442.6	2482.1	2532.1	2563.7	2613.7	2621.6	2613.7	2595.3
30°	1976.7	1971.5	2024.1	2061.0	2132.0	2155.7	2242.6	2290.0	2340.0	2337.3	2324.2
32.5°	1560.9	1571.4	1613.5	1666.1	1724.0	1797.7	1879.3	1984.6	2029.4	2039.9	2016.2
35°	1160.8	1176.6	1216.0	1260.8	1331.9	1413.5	1526.6	1626.7	1703.0	1703.0	1684.6
37.5°	837.0	842.3	879.1	908.1	981.8	1055.5	1152.9	1289.7	1337.1	1355.6	1337.1
40°	571.2	571.2	592.2	623.8	684.4	747.5	837.0	939.7	1008.1	1037.1	1005.5
42.5°	363.2	368.5	384.3	405.3	450.1	505.4	573.8	650.1	700.1	721.2	692.3
45°	218.5	223.7	236.9	252.7	281.6	315.9	363.2	418.5	460.6	479.0	465.9
47.5°	131.6	136.9	142.1	152.7	173.7	197.4	221.1	252.7	279.0	281.6	276.4
50°	76.3	76.3	81.6	89.5	100.0	113.2	126.3	144.8	152.7	163.2	152.7
52.5°	50.0	50.0	50.0	52.6	57.9	63.2	68.4	79.0	84.2	84.2	81.6
55°	36.8	36.8	36.8	36.8	39.5	39.5	39.5	42.1	44.7	44.7	44.7
57.5°	26.3	26.3	26.3	29.0	29.0	29.0	26.3	26.3	26.3	26.3	26.3
60°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	18.4	18.4	18.4
62.5°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
65°	10.5	10.5	10.5	13.2	13.2	13.2	13.2	10.5	10.5	10.5	10.5
67.5°	7.9	7.9	7.9	10.5	10.5	10.5	10.5	10.5	7.9	7.9	7.9
70°	5.3	5.3	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
72.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	4177.2	4177.2	4177.2	4177.2	4177.2	4177.2	4177.2	4177.2
2.5°	4187.7	4174.6	4174.6	4174.6	4169.3	4174.6	4182.5	4169.3
5°	4143.0	4148.2	4124.6	4143.0	4150.9	4137.7	4169.3	4143.0
7.5°	4103.5	4095.6	4058.8	4085.1	4100.9	4106.1	4103.5	4082.4
10°	4024.5	4006.1	3990.3	3990.3	3985.1	3982.4	4011.4	4000.8
12.5°	3882.4	3895.6	3871.9	3885.0	3874.5	3877.1	3879.8	3874.5
15°	3761.3	3748.2	3716.6	3737.6	3724.5	3711.3	3737.6	3698.2
17.5°	3571.8	3569.2	3550.8	3537.6	3542.9	3540.2	3553.4	3535.0
20°	3348.1	3353.3	3342.8	3337.6	3329.7	3311.2	3327.0	3306.0
22.5°	3105.9	3111.2	3121.7	3100.7	3103.3	3077.0	3100.7	3077.0
25°	2861.1	2858.5	2845.3	2834.8	2805.9	2776.9	2771.6	2753.2
27.5°	2592.7	2574.2	2542.6	2508.4	2463.7	2424.2	2421.6	2408.4
30°	2297.9	2258.4	2200.5	2145.2	2076.8	2016.2	2016.2	1995.2
32.5°	1987.3	1897.8	1818.8	1750.4	1660.9	1626.7	1592.4	1574.0
35°	1616.1	1537.2	1442.4	1329.2	1287.1	1202.9	1208.2	1166.0
37.5°	1266.1	1168.7	1079.2	987.1	913.4	873.9	852.8	831.8
40°	939.7	844.9	747.5	687.0	621.2	587.0	573.8	568.5
42.5°	642.2	563.3	500.1	450.1	415.9	379.0	368.5	363.2
45°	418.5	373.8	315.9	276.4	252.7	231.6	231.6	223.7
47.5°	250.1	221.1	192.1	165.8	150.0	136.9	131.6	129.0
50°	139.5	123.7	107.9	97.4	86.9	79.0	76.3	76.3
52.5°	76.3	68.4	63.2	55.3	50.0	50.0	50.0	47.4
55°	39.5	39.5	39.5	39.5	36.8	36.8	36.8	34.2
57.5°	26.3	26.3	29.0	29.0	29.0	26.3	26.3	26.3
60°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
62.5°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
65°	10.5	13.2	13.2	13.2	13.2	10.5	10.5	10.5
67.5°	7.9	10.5	10.5	10.5	7.9	7.9	7.9	7.9
70°	7.9	7.9	7.9	7.9	7.9	5.3	5.3	5.3
72.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6	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)