

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: P209364

Luminaire Tested: **LDSQ6B40D010 EU6B30509050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209364
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: LDSQ6B40D010 EU6B30509050 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57
W DL3-44.71 W DLE-39.33 W
Light Source: HIGH LUMEN LED 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3591.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

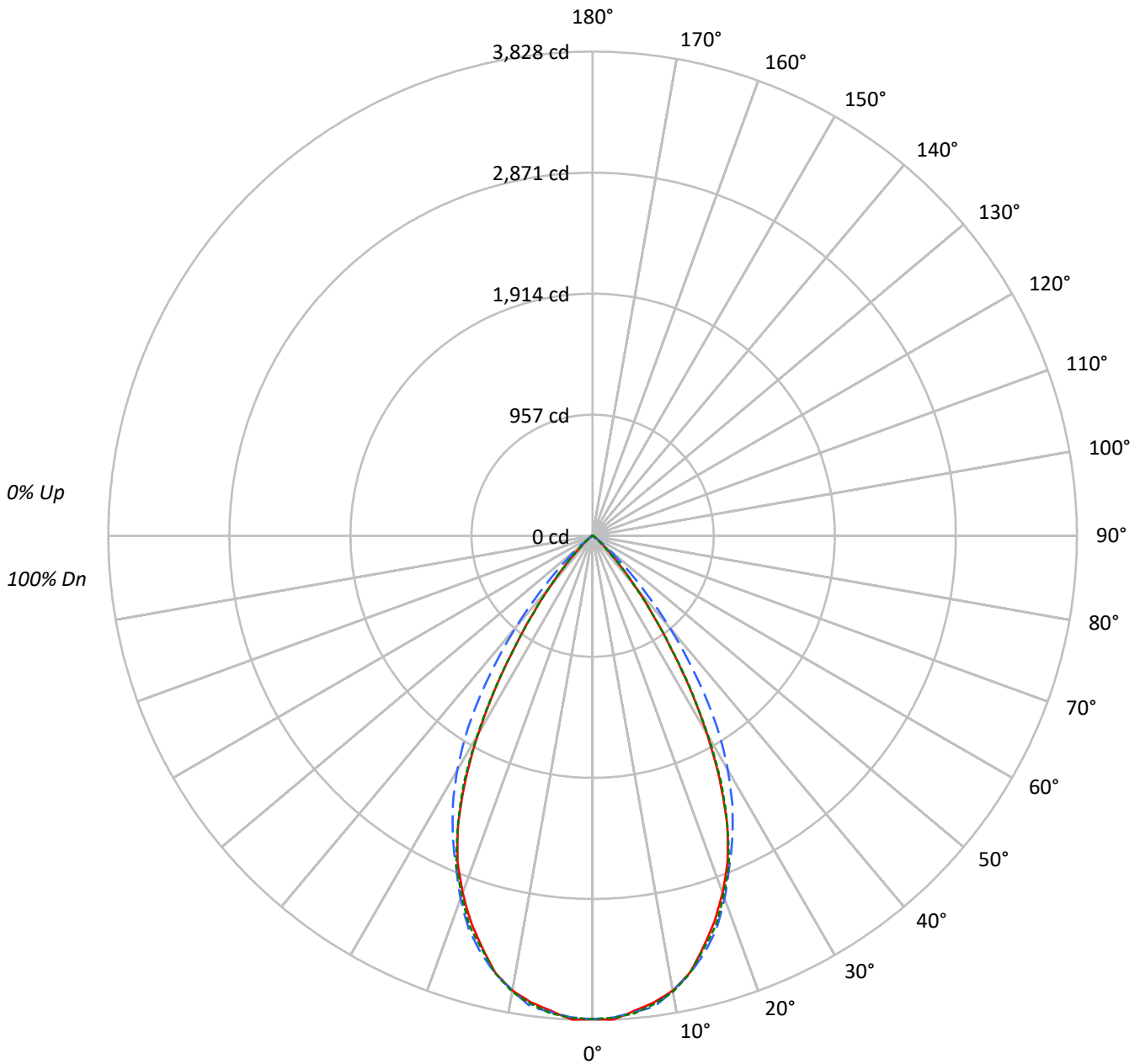
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	357.7	10.0
10°-20°	951.6	26.5
20°-30°	1167.9	32.5
30°-40°	806.3	22.5
40°-50°	252.1	7.0
50°-60°	39.4	1.1
60°-70°	11.4	0.3
70°-80°	3.7	0.1
80°-90°	0.8	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°	2477.3	69.0
0°-40°	3283.6	91.4
0°-60°	3575.0	99.6
0°-90°	3591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3821	3821	3821	3821	3821	
5°	3771	3785	3780	3782	3790	356
15°	3371	3419	3414	3410	3383	943
25°	2516	2581	2615	2598	2519	1127
35°	1062	1256	1558	1268	1067	678
45°	200	273	438	271	205	179
55°	34	36	41	36	31	33
65°	10	12	10	12	10	11
75°	2	2	2	2	2	3
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°	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3
2.5°	3828.5	3775.5	3809.3	3802.0	3821.3	3833.3	3821.3	3843.0	3828.5	3811.7	3816.5
5°	3770.7	3778.0	3775.5	3780.4	3785.2	3785.2	3809.3	3811.7	3816.5	3780.4	3790.0
7.5°	3720.2	3720.2	3732.2	3727.4	3744.2	3739.4	3741.8	3761.1	3763.5	3753.9	3746.7
10°	3650.3	3640.7	3628.7	3628.7	3650.3	3652.7	3672.0	3674.4	3688.9	3650.3	3655.2
12.5°	3542.0	3537.2	3517.9	3527.5	3544.4	3534.8	3566.1	3568.5	3563.7	3546.8	3556.4
15°	3371.0	3390.3	3385.5	3383.1	3421.6	3416.8	3414.4	3421.6	3424.0	3414.4	3407.1
17.5°	3200.1	3216.9	3219.3	3224.1	3231.4	3238.6	3248.2	3274.7	3265.1	3257.9	3281.9
20°	3002.6	2995.4	3014.7	3033.9	3041.1	3041.1	3055.6	3074.9	3060.4	3050.8	3053.2
22.5°	2788.3	2800.4	2790.7	2810.0	2819.6	2831.7	2846.1	2863.0	2850.9	2824.4	2855.7
25°	2516.2	2523.5	2554.8	2552.3	2566.8	2595.7	2617.4	2617.4	2617.4	2615.0	2615.0
27.5°	2174.3	2169.5	2208.0	2234.5	2270.6	2316.4	2345.3	2391.0	2398.2	2391.0	2374.2
30°	1808.3	1803.5	1851.7	1885.4	1950.4	1972.1	2051.5	2094.9	2140.6	2138.2	2126.2
32.5°	1427.9	1437.5	1476.0	1524.2	1577.2	1644.6	1719.2	1815.5	1856.5	1866.1	1844.4
35°	1061.9	1076.3	1112.4	1153.4	1218.4	1293.0	1396.6	1488.1	1557.9	1557.9	1541.0
37.5°	765.7	770.5	804.2	830.7	898.1	965.6	1054.6	1179.9	1223.2	1240.1	1223.2
40°	522.5	522.5	541.8	570.7	626.0	683.8	765.7	859.6	922.2	948.7	919.8
42.5°	332.3	337.1	351.5	370.8	411.7	462.3	524.9	594.7	640.5	659.8	633.3
45°	199.9	204.7	216.7	231.2	257.6	288.9	332.3	382.9	421.4	438.2	426.2
47.5°	120.4	125.2	130.0	139.7	158.9	180.6	202.3	231.2	255.2	257.6	252.8
50°	69.8	69.8	74.6	81.9	91.5	103.5	115.6	132.4	139.7	149.3	139.7
52.5°	45.7	45.7	45.7	48.2	53.0	57.8	62.6	72.2	77.1	77.1	74.6
55°	33.7	33.7	33.7	33.7	36.1	36.1	36.1	38.5	40.9	40.9	40.9
57.5°	24.1	24.1	24.1	26.5	26.5	26.5	24.1	24.1	24.1	24.1	24.1
60°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	16.9	16.9	16.9
62.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
65°	9.6	9.6	9.6	12.0	12.0	12.0	12.0	9.6	9.6	9.6	9.6
67.5°	7.2	7.2	7.2	9.6	9.6	9.6	9.6	9.6	7.2	7.2	7.2
70°	4.8	4.8	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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°	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3
2.5°	3830.9	3818.9	3818.9	3818.9	3814.1	3818.9	3826.1	3814.1
5°	3790.0	3794.8	3773.1	3790.0	3797.2	3785.2	3814.1	3790.0
7.5°	3753.9	3746.7	3712.9	3737.0	3751.5	3756.3	3753.9	3734.6
10°	3681.6	3664.8	3650.3	3650.3	3645.5	3643.1	3669.6	3660.0
12.5°	3551.6	3563.7	3542.0	3554.0	3544.4	3546.8	3549.2	3544.4
15°	3440.9	3428.8	3399.9	3419.2	3407.1	3395.1	3419.2	3383.1
17.5°	3267.5	3265.1	3248.2	3236.2	3241.0	3238.6	3250.6	3233.8
20°	3062.8	3067.6	3058.0	3053.2	3046.0	3029.1	3043.6	3024.3
22.5°	2841.3	2846.1	2855.7	2836.5	2838.9	2814.8	2836.5	2814.8
25°	2617.4	2615.0	2602.9	2593.3	2566.8	2540.3	2535.5	2518.6
27.5°	2371.8	2354.9	2326.0	2294.7	2253.8	2217.7	2215.2	2203.2
30°	2102.1	2066.0	2013.0	1962.4	1899.8	1844.4	1844.4	1825.2
32.5°	1817.9	1736.1	1663.8	1601.2	1519.4	1488.1	1456.8	1439.9
35°	1478.4	1406.2	1319.5	1216.0	1177.5	1100.4	1105.2	1066.7
37.5°	1158.2	1069.1	987.2	903.0	835.5	799.4	780.2	760.9
40°	859.6	772.9	683.8	628.5	568.3	537.0	524.9	520.1
42.5°	587.5	515.3	457.5	411.7	380.4	346.7	337.1	332.3
45°	382.9	341.9	288.9	252.8	231.2	211.9	211.9	204.7
47.5°	228.7	202.3	175.8	151.7	137.2	125.2	120.4	118.0
50°	127.6	113.2	98.7	89.1	79.5	72.2	69.8	69.8
52.5°	69.8	62.6	57.8	50.6	45.7	45.7	45.7	43.3
55°	36.1	36.1	36.1	36.1	33.7	33.7	33.7	31.3
57.5°	24.1	24.1	26.5	26.5	26.5	24.1	24.1	24.1
60°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
62.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
65°	9.6	12.0	12.0	12.0	12.0	9.6	9.6	9.6
67.5°	7.2	9.6	9.6	9.6	7.2	7.2	7.2	7.2
70°	7.2	7.2	7.2	7.2	7.2	4.8	4.8	4.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4	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)