

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: P209372

Luminaire Tested: **LDSQ6B50D010 EU6B30509024 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209372
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 EU6B30509024 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 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3799.7 lumens
Efficiency: N/A
Efficacy: 64.7 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

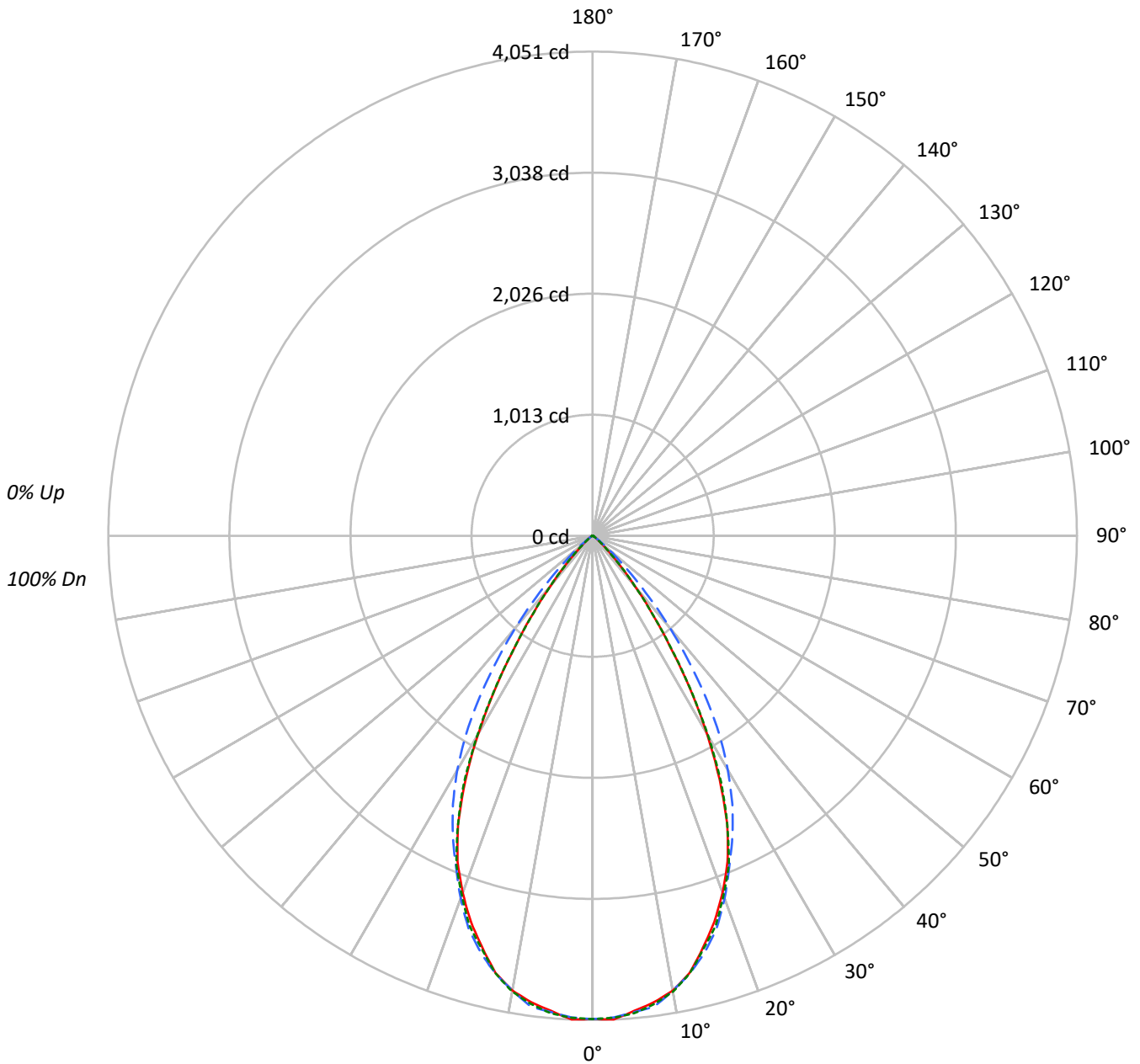
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	378.5	10.0
10°-20°	1007.0	26.5
20°-30°	1235.9	32.5
30°-40°	853.1	22.5
40°-50°	266.7	7.0
50°-60°	41.7	1.1
60°-70°	12.0	0.3
70°-80°	3.9	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°	2621.4	69.0
0°-40°	3474.5	91.4
0°-60°	3782.9	99.6
0°-90°	3799.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4044	4044	4044	4044	4044	
5°	3990	4005	4000	4001	4010	377
15°	3567	3618	3613	3608	3580	998
25°	2662	2731	2767	2749	2665	1193
35°	1124	1329	1648	1341	1129	718
45°	212	289	464	287	217	189
55°	36	38	43	38	33	35
65°	10	13	10	13	10	11
75°	2	2	2	2	2	4
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°	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5
2.5°	4051.1	3995.1	4030.8	4023.1	4043.5	4056.2	4043.5	4066.4	4051.1	4033.3	4038.4
5°	3990.0	3997.6	3995.1	4000.2	4005.3	4005.3	4030.8	4033.3	4038.4	4000.2	4010.4
7.5°	3936.5	3936.5	3949.2	3944.1	3962.0	3956.9	3959.4	3979.8	3982.4	3972.2	3964.5
10°	3862.6	3852.4	3839.7	3839.7	3862.6	3865.2	3885.5	3888.1	3903.4	3862.6	3867.7
12.5°	3747.9	3742.9	3722.5	3732.7	3750.5	3740.3	3773.4	3776.0	3770.9	3753.0	3763.2
15°	3567.0	3587.4	3582.3	3579.8	3620.6	3615.5	3612.9	3620.6	3623.1	3612.9	3605.3
17.5°	3386.1	3404.0	3406.5	3411.6	3419.3	3426.9	3437.1	3465.1	3454.9	3447.3	3472.8
20°	3177.2	3169.6	3190.0	3210.3	3218.0	3218.0	3233.3	3253.7	3238.4	3228.2	3230.7
22.5°	2950.5	2963.2	2953.0	2973.4	2983.6	2996.3	3011.6	3029.4	3016.7	2988.7	3021.8
25°	2662.5	2670.2	2703.3	2700.8	2716.1	2746.6	2769.6	2769.6	2769.6	2767.0	2767.0
27.5°	2300.7	2295.7	2336.4	2364.4	2402.7	2451.1	2481.6	2530.1	2537.7	2530.1	2512.2
30°	1913.5	1908.4	1959.3	1995.0	2063.8	2086.7	2170.8	2216.7	2265.1	2262.5	2249.8
32.5°	1510.9	1521.1	1561.9	1612.8	1668.9	1740.2	1819.2	1921.1	1964.4	1974.6	1951.7
35°	1123.6	1138.9	1177.1	1220.4	1289.2	1368.2	1477.8	1574.6	1648.5	1648.5	1630.7
37.5°	810.2	815.3	851.0	879.0	950.4	1021.7	1116.0	1248.5	1294.3	1312.2	1294.3
40°	552.9	552.9	573.3	603.9	662.5	723.6	810.2	909.6	975.8	1003.9	973.3
42.5°	351.6	356.7	372.0	392.4	435.7	489.2	555.4	629.3	677.7	698.1	670.1
45°	211.5	216.6	229.3	244.6	272.6	305.7	351.6	405.1	445.9	463.7	451.0
47.5°	127.4	132.5	137.6	147.8	168.2	191.1	214.0	244.6	270.1	272.6	267.5
50°	73.9	73.9	79.0	86.6	96.8	109.6	122.3	140.1	147.8	158.0	147.8
52.5°	48.4	48.4	48.4	51.0	56.1	61.1	66.2	76.4	81.5	81.5	79.0
55°	35.7	35.7	35.7	35.7	38.2	38.2	38.2	40.8	43.3	43.3	43.3
57.5°	25.5	25.5	25.5	28.0	28.0	28.0	25.5	25.5	25.5	25.5	25.5
60°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.8	17.8	17.8
62.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
65°	10.2	10.2	10.2	12.7	12.7	12.7	12.7	10.2	10.2	10.2	10.2
67.5°	7.6	7.6	7.6	10.2	10.2	10.2	10.2	10.2	7.6	7.6	7.6
70°	5.1	5.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
72.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5	4043.5
2.5°	4053.7	4041.0	4041.0	4041.0	4035.9	4041.0	4048.6	4035.9
5°	4010.4	4015.5	3992.5	4010.4	4018.0	4005.3	4035.9	4010.4
7.5°	3972.2	3964.5	3928.9	3954.3	3969.6	3974.7	3972.2	3951.8
10°	3895.7	3877.9	3862.6	3862.6	3857.5	3855.0	3883.0	3872.8
12.5°	3758.1	3770.9	3747.9	3760.7	3750.5	3753.0	3755.6	3750.5
15°	3640.9	3628.2	3597.6	3618.0	3605.3	3592.5	3618.0	3579.8
17.5°	3457.5	3454.9	3437.1	3424.4	3429.5	3426.9	3439.7	3421.8
20°	3240.9	3246.0	3235.8	3230.7	3223.1	3205.2	3220.5	3200.2
22.5°	3006.5	3011.6	3021.8	3001.4	3004.0	2978.5	3001.4	2978.5
25°	2769.6	2767.0	2754.3	2744.1	2716.1	2688.0	2682.9	2665.1
27.5°	2509.7	2491.8	2461.3	2428.1	2384.8	2346.6	2344.1	2331.3
30°	2224.3	2186.1	2130.0	2076.5	2010.3	1951.7	1951.7	1931.3
32.5°	1923.7	1837.0	1760.6	1694.3	1607.7	1574.6	1541.5	1523.6
35°	1564.4	1488.0	1396.2	1286.7	1245.9	1164.4	1169.5	1128.7
37.5°	1225.5	1131.3	1044.6	955.5	884.1	845.9	825.5	805.1
40°	909.6	817.9	723.6	665.0	601.3	568.2	555.4	550.3
42.5°	621.7	545.2	484.1	435.7	402.6	366.9	356.7	351.6
45°	405.1	361.8	305.7	267.5	244.6	224.2	224.2	216.6
47.5°	242.0	214.0	186.0	160.5	145.2	132.5	127.4	124.8
50°	135.0	119.8	104.5	94.3	84.1	76.4	73.9	73.9
52.5°	73.9	66.2	61.1	53.5	48.4	48.4	48.4	45.9
55°	38.2	38.2	38.2	38.2	35.7	35.7	35.7	33.1
57.5°	25.5	25.5	28.0	28.0	28.0	25.5	25.5	25.5
60°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
62.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
65°	10.2	12.7	12.7	12.7	12.7	10.2	10.2	10.2
67.5°	7.6	10.2	10.2	10.2	7.6	7.6	7.6	7.6
70°	7.6	7.6	7.6	7.6	7.6	5.1	5.1	5.1
72.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	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)