

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: P209359

Luminaire Tested: **LDSQ6B40D010 EU6B30509024 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209359
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 EU6B30509024 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 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2977.5 lumens
Efficiency: N/A
Efficacy: 69.2 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

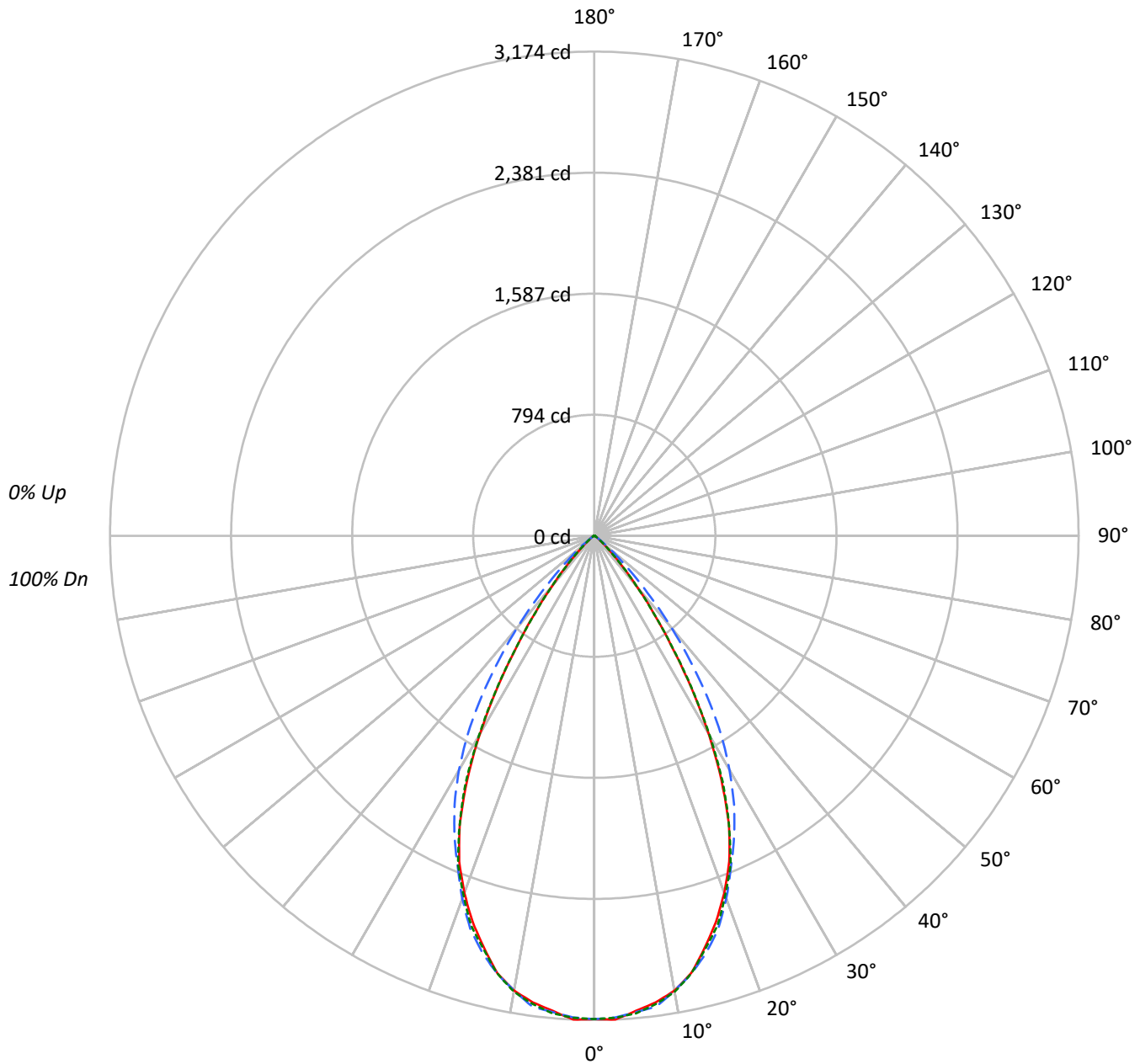
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	81	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°	296.6	10.0
10°-20°	789.1	26.5
20°-30°	968.4	32.5
30°-40°	668.5	22.5
40°-50°	209.0	7.0
50°-60°	32.7	1.1
60°-70°	9.5	0.3
70°-80°	3.1	0.1
80°-90°	0.7	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°	2054.1	69.0
0°-40°	2722.6	91.4
0°-60°	2964.3	99.6
0°-90°	2977.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2977.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3168	3168	3168	3168	3168	
5°	3126	3138	3134	3136	3142	296
15°	2795	2835	2831	2827	2805	782
25°	2086	2140	2168	2154	2088	935
35°	880	1041	1292	1051	884	562
45°	166	227	363	225	170	148
55°	28	30	34	30	26	27
65°	8	10	8	10	8	9
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°	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4
2.5°	3174.4	3130.5	3158.5	3152.5	3168.4	3178.4	3168.4	3186.4	3174.4	3160.5	3164.5
5°	3126.5	3132.5	3130.5	3134.5	3138.5	3138.5	3158.5	3160.5	3164.5	3134.5	3142.5
7.5°	3084.6	3084.6	3094.6	3090.6	3104.6	3100.6	3102.6	3118.5	3120.5	3112.5	3106.6
10°	3026.7	3018.7	3008.7	3008.7	3026.7	3028.7	3044.7	3046.7	3058.6	3026.7	3030.7
12.5°	2936.9	2932.9	2916.9	2924.9	2938.8	2930.9	2956.8	2958.8	2954.8	2940.8	2948.8
15°	2795.1	2811.1	2807.1	2805.1	2837.0	2833.0	2831.0	2837.0	2839.0	2831.0	2825.0
17.5°	2653.3	2667.3	2669.3	2673.3	2679.3	2685.3	2693.3	2715.2	2707.3	2701.3	2721.2
20°	2489.6	2483.6	2499.6	2515.6	2521.6	2521.6	2533.6	2549.5	2537.6	2529.6	2531.6
22.5°	2311.9	2321.9	2313.9	2329.9	2337.9	2347.9	2359.9	2373.8	2363.9	2341.9	2367.8
25°	2086.3	2092.3	2118.3	2116.3	2128.3	2152.2	2170.2	2170.2	2170.2	2168.2	2168.2
27.5°	1802.8	1798.8	1830.8	1852.8	1882.7	1920.6	1944.6	1982.5	1988.5	1982.5	1968.5
30°	1499.4	1495.4	1535.3	1563.3	1617.2	1635.1	1701.0	1737.0	1774.9	1772.9	1762.9
32.5°	1183.9	1191.9	1223.9	1263.8	1307.7	1363.6	1425.5	1505.4	1539.3	1547.3	1529.3
35°	880.5	892.4	922.4	956.3	1010.2	1072.1	1158.0	1233.8	1291.7	1291.7	1277.8
37.5°	634.9	638.9	666.8	688.8	744.7	800.6	874.5	978.3	1014.2	1028.2	1014.2
40°	433.2	433.2	449.2	473.2	519.1	567.0	634.9	712.8	764.7	786.6	762.7
42.5°	275.5	279.5	291.5	307.5	341.4	383.3	435.2	493.1	531.1	547.0	525.1
45°	165.7	169.7	179.7	191.7	213.6	239.6	275.5	317.4	349.4	363.4	353.4
47.5°	99.8	103.8	107.8	115.8	131.8	149.7	167.7	191.7	211.6	213.6	209.6
50°	57.9	57.9	61.9	67.9	75.9	85.8	95.8	109.8	115.8	123.8	115.8
52.5°	37.9	37.9	37.9	39.9	43.9	47.9	51.9	59.9	63.9	63.9	61.9
55°	28.0	28.0	28.0	28.0	29.9	29.9	29.9	31.9	33.9	33.9	33.9
57.5°	20.0	20.0	20.0	22.0	22.0	22.0	20.0	20.0	20.0	20.0	20.0
60°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	14.0	14.0	14.0
62.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
65°	8.0	8.0	8.0	10.0	10.0	10.0	10.0	8.0	8.0	8.0	8.0
67.5°	6.0	6.0	6.0	8.0	8.0	8.0	8.0	8.0	6.0	6.0	6.0
70°	4.0	4.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4	3168.4
2.5°	3176.4	3166.4	3166.4	3166.4	3162.5	3166.4	3172.4	3162.5
5°	3142.5	3146.5	3128.5	3142.5	3148.5	3138.5	3162.5	3142.5
7.5°	3112.5	3106.6	3078.6	3098.6	3110.5	3114.5	3112.5	3096.6
10°	3052.6	3038.7	3026.7	3026.7	3022.7	3020.7	3042.7	3034.7
12.5°	2944.8	2954.8	2936.9	2946.8	2938.8	2940.8	2942.8	2938.8
15°	2853.0	2843.0	2819.1	2835.0	2825.0	2815.1	2835.0	2805.1
17.5°	2709.3	2707.3	2693.3	2683.3	2687.3	2685.3	2695.3	2681.3
20°	2539.5	2543.5	2535.6	2531.6	2525.6	2511.6	2523.6	2507.6
22.5°	2355.9	2359.9	2367.8	2351.9	2353.9	2333.9	2351.9	2333.9
25°	2170.2	2168.2	2158.2	2150.2	2128.3	2106.3	2102.3	2088.3
27.5°	1966.6	1952.6	1928.6	1902.7	1868.7	1838.8	1836.8	1826.8
30°	1742.9	1713.0	1669.1	1627.1	1575.2	1529.3	1529.3	1513.3
32.5°	1507.4	1439.5	1379.6	1327.7	1259.8	1233.8	1207.9	1193.9
35°	1225.9	1166.0	1094.1	1008.2	976.3	912.4	916.4	884.4
37.5°	960.3	886.4	818.6	748.7	692.8	662.8	646.9	630.9
40°	712.8	640.9	567.0	521.1	471.2	445.2	435.2	431.2
42.5°	487.1	427.3	379.3	341.4	315.4	287.5	279.5	275.5
45°	317.4	283.5	239.6	209.6	191.7	175.7	175.7	169.7
47.5°	189.7	167.7	145.7	125.8	113.8	103.8	99.8	97.8
50°	105.8	93.8	81.9	73.9	65.9	59.9	57.9	57.9
52.5°	57.9	51.9	47.9	41.9	37.9	37.9	37.9	35.9
55°	29.9	29.9	29.9	29.9	28.0	28.0	28.0	26.0
57.5°	20.0	20.0	22.0	22.0	22.0	20.0	20.0	20.0
60°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
62.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
65°	8.0	10.0	10.0	10.0	10.0	8.0	8.0	8.0
67.5°	6.0	8.0	8.0	8.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	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)