

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: P209498

Luminaire Tested: **LDSQ6B70D010 EU6B60708040 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35359)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6B70D010 EU6B60708040 6LBCSSQ1MMS
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE SHALLOW CAST
METALLIC SILVER TRIM
MEDIUM DISTRIBUTION WITH MATTE METALLIC SILVER TRIM
D010TE
Light Source: HIGH LUMEN LED 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8025.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

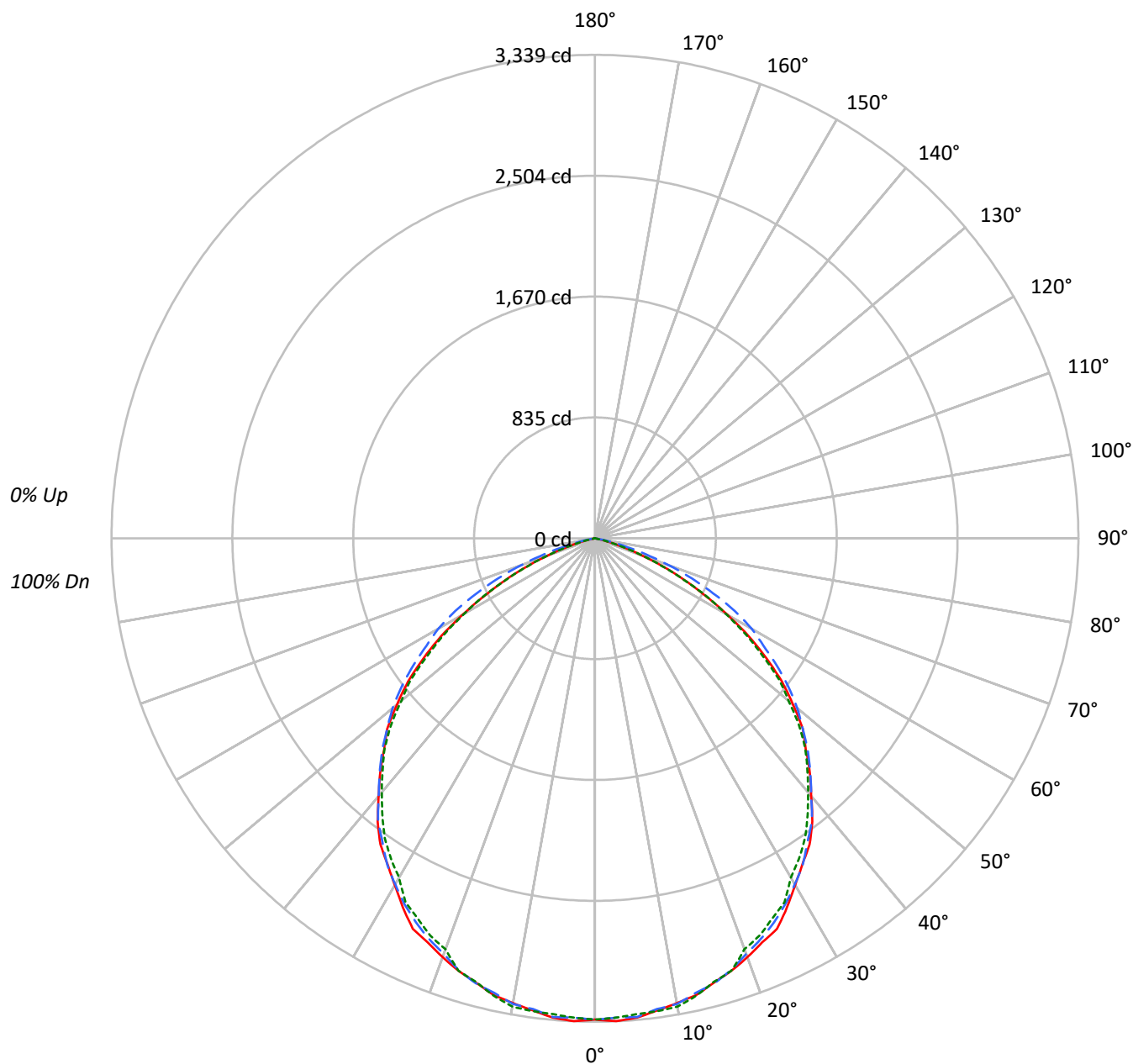
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87						
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75						
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64						
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56						
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49						
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43						
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38						
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34						
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31						
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28						

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°	314.4	3.9
10°-20°	896.4	11.2
20°-30°	1348.9	16.8
30°-40°	1595.8	19.9
40°-50°	1592.5	19.8
50°-60°	1320.5	16.5
60°-70°	771.5	9.6
70°-80°	183.7	2.3
80°-90°	1.3	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°	2559.7	31.9
0°-40°	4155.5	51.8
0°-60°	7068.5	88.1
0°-90°	8025.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8025.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3324	3324	3324	3324	3324	
5°	3324	3307	3319	3309	3299	315
15°	3177	3174	3182	3167	3172	898
25°	2976	2942	2927	2917	2897	1360
35°	2584	2559	2559	2544	2530	1606
45°	2059	2062	2079	2057	2054	1593
55°	1446	1498	1534	1493	1412	1284
65°	682	767	902	765	677	677
75°	98	142	221	140	93	133
85°	0	0	0	0	0	1
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°	3323.9	3323.9	3323.9	3323.9	3323.9	3323.9	3323.9	3323.9	3323.9	3323.9	3323.9
2.5°	3338.6	3319.0	3333.7	3304.3	3323.9	3304.3	3309.2	3299.4	3319.0	3314.1	3309.2
5°	3323.9	3328.8	3319.0	3328.8	3314.1	3299.4	3314.1	3304.3	3274.9	3319.0	3309.2
7.5°	3289.6	3294.5	3284.7	3299.4	3289.6	3270.0	3309.2	3279.8	3274.9	3279.8	3299.4
10°	3260.2	3270.0	3265.1	3260.2	3265.1	3265.1	3255.3	3240.6	3255.3	3265.1	3260.2
12.5°	3230.8	3245.5	3235.7	3225.9	3216.1	3221.0	3230.8	3206.3	3206.3	3216.1	3245.5
15°	3176.9	3186.7	3191.6	3172.0	3172.0	3176.9	3196.5	3157.3	3176.9	3181.8	3186.7
17.5°	3132.7	3137.6	3137.6	3122.9	3132.7	3118.0	3132.7	3113.1	3132.7	3127.8	3137.6
20°	3078.8	3088.6	3078.8	3078.8	3069.0	3073.9	3073.9	3073.9	3059.2	3054.3	3064.1
22.5°	3020.0	3020.0	3010.2	3020.0	3010.2	3005.3	3029.8	2990.6	3029.8	2995.5	3024.9
25°	2975.9	2951.3	2936.6	2931.7	2951.3	2931.7	2941.5	2926.8	2936.6	2926.8	2931.7
27.5°	2872.9	2858.2	2853.3	2858.2	2858.2	2853.3	2872.9	2819.0	2853.3	2848.4	2848.4
30°	2765.0	2765.0	2774.9	2765.0	2774.9	2760.1	2779.8	2735.6	2765.0	2760.1	2765.0
32.5°	2667.0	2671.9	2671.9	2681.7	2667.0	2671.9	2671.9	2657.2	2667.0	2671.9	2662.1
35°	2583.7	2559.1	2559.1	2559.1	2559.1	2559.1	2568.9	2554.2	2568.9	2559.1	2559.1
37.5°	2466.0	2441.5	2441.5	2436.6	2461.1	2446.4	2470.9	2451.3	2451.3	2461.1	2461.1
40°	2323.8	2333.6	2318.9	2338.5	2333.6	2314.0	2358.1	2328.7	2348.3	2323.8	2343.4
42.5°	2196.3	2201.3	2196.3	2191.4	2211.1	2206.2	2225.8	2206.2	2201.3	2201.3	2235.6
45°	2059.1	2059.1	2059.1	2073.8	2059.1	2064.0	2083.6	2073.8	2083.6	2078.7	2113.0
47.5°	1946.3	1921.8	1916.9	1946.3	1941.4	1946.3	1946.3	1951.2	1956.1	1946.3	1961.0
50°	1784.5	1774.7	1774.7	1779.6	1784.5	1794.3	1809.0	1818.9	1809.0	1823.8	1828.7
52.5°	1627.7	1617.8	1622.7	1642.4	1652.2	1647.3	1671.8	1676.7	1671.8	1681.6	1681.6
55°	1446.3	1436.5	1451.2	1475.7	1490.4	1505.1	1529.6	1510.0	1529.6	1534.5	1539.4
57.5°	1260.0	1255.1	1260.0	1284.5	1299.2	1333.5	1372.7	1372.7	1392.3	1377.6	1392.3
60°	1054.1	1054.1	1073.7	1088.4	1127.6	1152.1	1191.3	1210.9	1230.5	1250.2	1240.3
62.5°	857.9	862.9	877.6	911.9	936.4	970.7	1014.8	1034.4	1068.8	1088.4	1078.6
65°	681.5	681.5	691.3	720.7	745.2	789.3	828.5	872.7	892.3	902.1	907.0
67.5°	509.9	505.0	524.6	544.2	568.7	612.8	656.9	681.5	715.8	725.6	720.7
70°	343.2	348.1	357.9	377.5	406.9	441.2	490.3	509.9	529.5	539.3	529.5
72.5°	215.7	215.7	220.6	240.2	259.8	284.3	318.7	338.3	362.8	367.7	357.9
75°	98.1	98.1	107.9	117.7	132.4	152.0	176.5	191.2	205.9	220.6	220.6
77.5°	19.6	24.5	29.4	29.4	39.2	53.9	68.6	83.3	98.1	98.1	98.1
80°	4.9	4.9	4.9	4.9	4.9	4.9	9.8	14.7	24.5	24.5	24.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	3323.9	3323.9	3323.9	3323.9	3323.9	3323.9	3323.9	3323.9
2.5°	3323.9	3353.4	3323.9	3309.2	3328.8	3323.9	3309.2	3314.1
5°	3309.2	3319.0	3328.8	3289.6	3314.1	3319.0	3309.2	3299.4
7.5°	3294.5	3299.4	3294.5	3284.7	3284.7	3284.7	3294.5	3294.5
10°	3289.6	3274.9	3250.4	3235.7	3250.4	3250.4	3245.5	3284.7
12.5°	3225.9	3245.5	3230.8	3201.4	3230.8	3225.9	3225.9	3235.7
15°	3176.9	3176.9	3186.7	3147.4	3167.1	3162.2	3162.2	3172.0
17.5°	3127.8	3127.8	3122.9	3113.1	3108.2	3122.9	3108.2	3132.7
20°	3059.2	3069.0	3098.4	3049.4	3064.1	3049.4	3049.4	3020.0
22.5°	2975.9	3024.9	3000.4	2995.5	2990.6	2995.5	3005.3	2971.0
25°	2921.9	2921.9	2931.7	2902.3	2902.3	2912.1	2907.2	2897.4
27.5°	2848.4	2843.5	2838.6	2828.8	2853.3	2833.7	2833.7	2833.7
30°	2745.4	2760.1	2755.2	2730.7	2760.1	2750.3	2735.6	2706.2
32.5°	2657.2	2676.8	2647.4	2642.5	2637.6	2642.5	2647.4	2622.9
35°	2549.3	2554.2	2554.2	2534.6	2539.5	2534.6	2524.8	2529.7
37.5°	2451.3	2446.4	2421.9	2412.1	2417.0	2417.0	2421.9	2412.1
40°	2314.0	2328.7	2328.7	2294.4	2304.2	2294.4	2294.4	2289.5
42.5°	2201.3	2206.2	2191.4	2176.7	2176.7	2171.8	2162.0	2171.8
45°	2083.6	2078.7	2064.0	2049.3	2049.3	2044.4	2034.6	2054.2
47.5°	1951.2	1941.4	1936.5	1916.9	1916.9	1887.5	1892.4	1912.0
50°	1818.9	1809.0	1789.4	1779.6	1764.9	1750.2	1745.3	1745.3
52.5°	1662.0	1662.0	1642.4	1622.7	1617.8	1608.0	1598.2	1603.1
55°	1524.7	1524.7	1510.0	1475.7	1456.1	1431.5	1416.8	1411.9
57.5°	1367.8	1358.0	1328.6	1289.4	1269.8	1250.2	1235.4	1235.4
60°	1210.9	1186.4	1157.0	1122.7	1088.4	1054.1	1044.2	1039.3
62.5°	1039.3	1014.8	960.9	921.7	897.2	877.6	857.9	872.7
65°	867.8	833.4	784.4	745.2	720.7	691.3	676.6	676.6
67.5°	686.4	652.0	603.0	563.8	539.3	519.7	500.1	500.1
70°	505.0	480.5	436.3	402.0	382.4	353.0	348.1	348.1
72.5°	343.2	313.8	279.4	254.9	235.3	215.7	205.9	201.0
75°	191.2	171.6	147.1	132.4	112.8	103.0	93.1	93.1
77.5°	78.4	63.7	49.0	39.2	29.4	24.5	19.6	24.5
80°	14.7	9.8	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	0.0	0.0	0.0	0.0	0.0	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°









(END OF REPORT)