

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: P209342

Luminaire Tested: **LDSQ6B30D010 EU6B30508027 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209342
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: LDSQ6B30D010 EU6B30508027 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W
DL3-29.67 W DLE-29.73 W
Light Source: HIGH LUMEN LED 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2789.9 lumens
Efficiency: N/A
Efficacy: 99.6 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

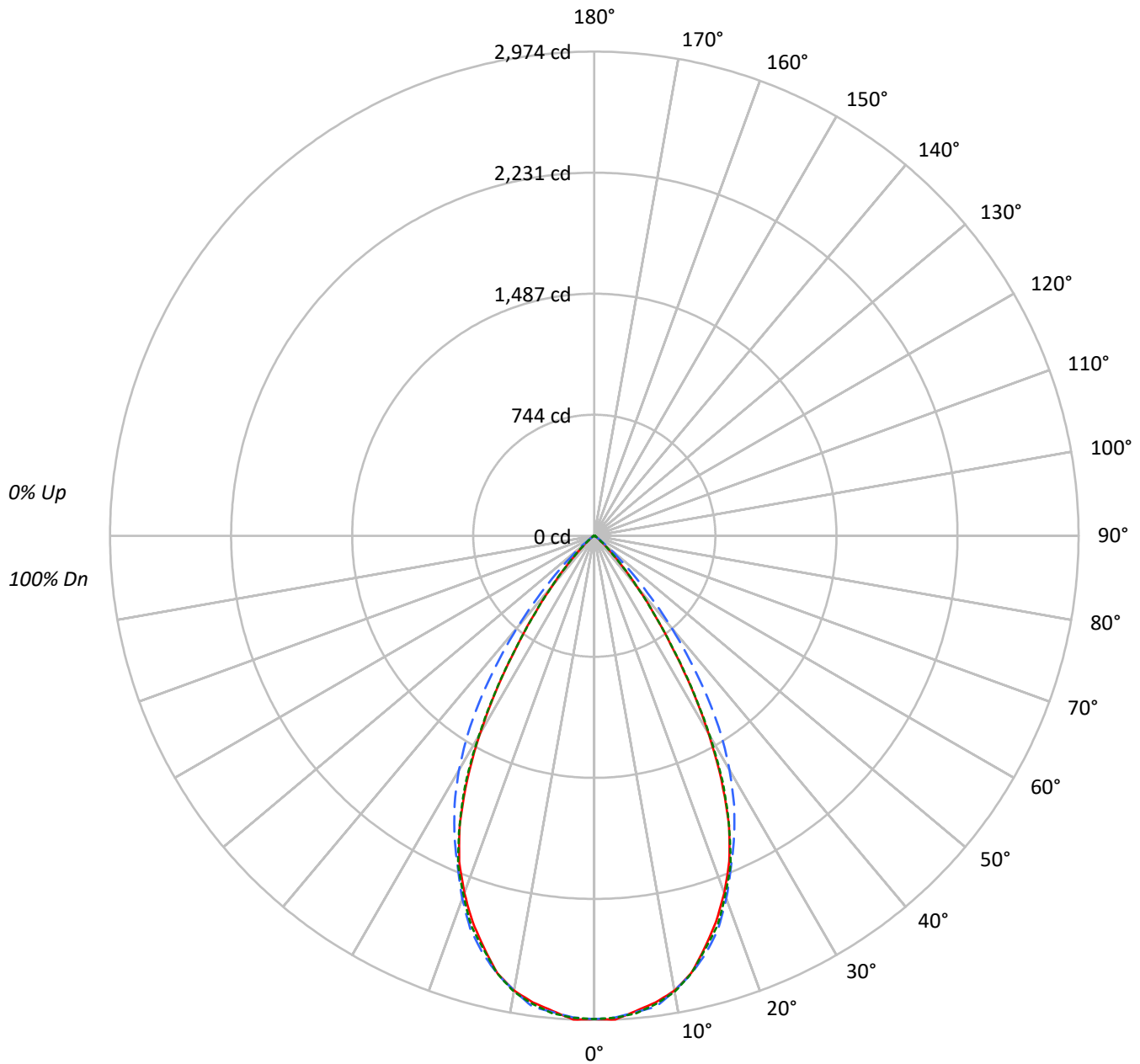
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	277.9	10.0
10°-20°	739.3	26.5
20°-30°	907.4	32.5
30°-40°	626.4	22.5
40°-50°	195.8	7.0
50°-60°	30.6	1.1
60°-70°	8.9	0.3
70°-80°	2.9	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°	1924.6	69.0
0°-40°	2551.0	91.4
0°-60°	2777.5	99.6
0°-90°	2789.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2969	2969	2969	2969	2969	
5°	2930	2941	2937	2938	2944	277
15°	2619	2656	2653	2649	2628	733
25°	1955	2005	2032	2018	1957	876
35°	825	976	1210	985	829	527
45°	155	212	340	210	159	139
55°	26	28	32	28	24	25
65°	8	9	8	9	8	8
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°	2968.8	2968.8	2968.8	2968.8	2968.8	2968.8	2968.8	2968.8	2968.8	2968.8	2968.8
2.5°	2974.4	2933.2	2959.4	2953.8	2968.8	2978.1	2968.8	2985.6	2974.4	2961.3	2965.0
5°	2929.5	2935.1	2933.2	2937.0	2940.7	2940.7	2959.4	2961.3	2965.0	2937.0	2944.5
7.5°	2890.2	2890.2	2899.6	2895.8	2908.9	2905.2	2907.0	2922.0	2923.9	2916.4	2910.8
10°	2836.0	2828.5	2819.1	2819.1	2836.0	2837.8	2852.8	2854.7	2865.9	2836.0	2839.7
12.5°	2751.8	2748.0	2733.1	2740.6	2753.6	2746.2	2770.5	2772.4	2768.6	2755.5	2763.0
15°	2619.0	2633.9	2630.2	2628.3	2658.2	2654.5	2652.6	2658.2	2660.1	2652.6	2647.0
17.5°	2486.1	2499.2	2501.1	2504.8	2510.5	2516.1	2523.6	2544.1	2536.6	2531.0	2549.7
20°	2332.7	2327.1	2342.1	2357.1	2362.7	2362.7	2373.9	2388.9	2377.6	2370.2	2372.0
22.5°	2166.3	2175.6	2168.1	2183.1	2190.6	2199.9	2211.1	2224.2	2214.9	2194.3	2218.6
25°	1954.9	1960.5	1984.8	1982.9	1994.1	2016.6	2033.4	2033.4	2033.4	2031.6	2031.6
27.5°	1689.2	1685.5	1715.4	1736.0	1764.1	1799.6	1822.0	1857.6	1863.2	1857.6	1844.5
30°	1404.9	1401.1	1438.6	1464.7	1515.3	1532.1	1593.8	1627.5	1663.0	1661.2	1651.8
32.5°	1109.3	1116.8	1146.7	1184.1	1225.3	1277.7	1335.7	1410.5	1442.3	1449.8	1432.9
35°	825.0	836.2	864.3	896.1	946.6	1004.6	1085.0	1156.1	1210.3	1210.3	1197.2
37.5°	594.9	598.6	624.8	645.4	697.8	750.1	819.4	916.6	950.3	963.4	950.3
40°	405.9	405.9	420.9	443.4	486.4	531.3	594.9	667.8	716.5	737.0	714.6
42.5°	258.2	261.9	273.1	288.1	319.9	359.2	407.8	462.1	497.6	512.6	492.0
45°	155.3	159.0	168.4	179.6	200.2	224.5	258.2	297.4	327.4	340.5	331.1
47.5°	93.5	97.3	101.0	108.5	123.5	140.3	157.1	179.6	198.3	200.2	196.4
50°	54.2	54.2	58.0	63.6	71.1	80.4	89.8	102.9	108.5	116.0	108.5
52.5°	35.5	35.5	35.5	37.4	41.2	44.9	48.6	56.1	59.9	59.9	58.0
55°	26.2	26.2	26.2	26.2	28.1	28.1	28.1	29.9	31.8	31.8	31.8
57.5°	18.7	18.7	18.7	20.6	20.6	20.6	18.7	18.7	18.7	18.7	18.7
60°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	13.1	13.1	13.1
62.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
65°	7.5	7.5	7.5	9.4	9.4	9.4	9.4	7.5	7.5	7.5	7.5
67.5°	5.6	5.6	5.6	7.5	7.5	7.5	7.5	7.5	5.6	5.6	5.6
70°	3.7	3.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	2968.8	2968.8	2968.8	2968.8	2968.8	2968.8	2968.8	2968.8
2.5°	2976.3	2966.9	2966.9	2966.9	2963.2	2966.9	2972.5	2963.2
5°	2944.5	2948.2	2931.4	2944.5	2950.1	2940.7	2963.2	2944.5
7.5°	2916.4	2910.8	2884.6	2903.3	2914.5	2918.3	2916.4	2901.4
10°	2860.3	2847.2	2836.0	2836.0	2832.2	2830.3	2850.9	2843.4
12.5°	2759.3	2768.6	2751.8	2761.1	2753.6	2755.5	2757.4	2753.6
15°	2673.2	2663.9	2641.4	2656.4	2647.0	2637.7	2656.4	2628.3
17.5°	2538.5	2536.6	2523.6	2514.2	2517.9	2516.1	2525.4	2512.3
20°	2379.5	2383.3	2375.8	2372.0	2366.4	2353.3	2364.5	2349.6
22.5°	2207.4	2211.1	2218.6	2203.7	2205.5	2186.8	2203.7	2186.8
25°	2033.4	2031.6	2022.2	2014.7	1994.1	1973.6	1969.8	1956.7
27.5°	1842.6	1829.5	1807.1	1782.8	1751.0	1722.9	1721.0	1711.7
30°	1633.1	1605.0	1563.9	1524.6	1476.0	1432.9	1432.9	1418.0
32.5°	1412.4	1348.8	1292.6	1244.0	1180.4	1156.1	1131.8	1118.7
35°	1148.6	1092.5	1025.1	944.7	914.8	854.9	858.6	828.7
37.5°	899.8	830.6	767.0	701.5	649.1	621.1	606.1	591.1
40°	667.8	600.5	531.3	488.2	441.5	417.2	407.8	404.1
42.5°	456.4	400.3	355.4	319.9	295.6	269.4	261.9	258.2
45°	297.4	265.6	224.5	196.4	179.6	164.6	164.6	159.0
47.5°	177.7	157.1	136.6	117.9	106.6	97.3	93.5	91.7
50°	99.1	87.9	76.7	69.2	61.7	56.1	54.2	54.2
52.5°	54.2	48.6	44.9	39.3	35.5	35.5	35.5	33.7
55°	28.1	28.1	28.1	28.1	26.2	26.2	26.2	24.3
57.5°	18.7	18.7	20.6	20.6	20.6	18.7	18.7	18.7
60°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
62.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
65°	7.5	9.4	9.4	9.4	9.4	7.5	7.5	7.5
67.5°	5.6	7.5	7.5	7.5	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.6	5.6	5.6	3.7	3.7	3.7
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	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)