

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: P209345

Luminaire Tested: **LDSQ6B30D010 EU6B30508040 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209345
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 EU6B30508040 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 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3021.0 lumens
Efficiency: N/A
Efficacy: 107.9 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

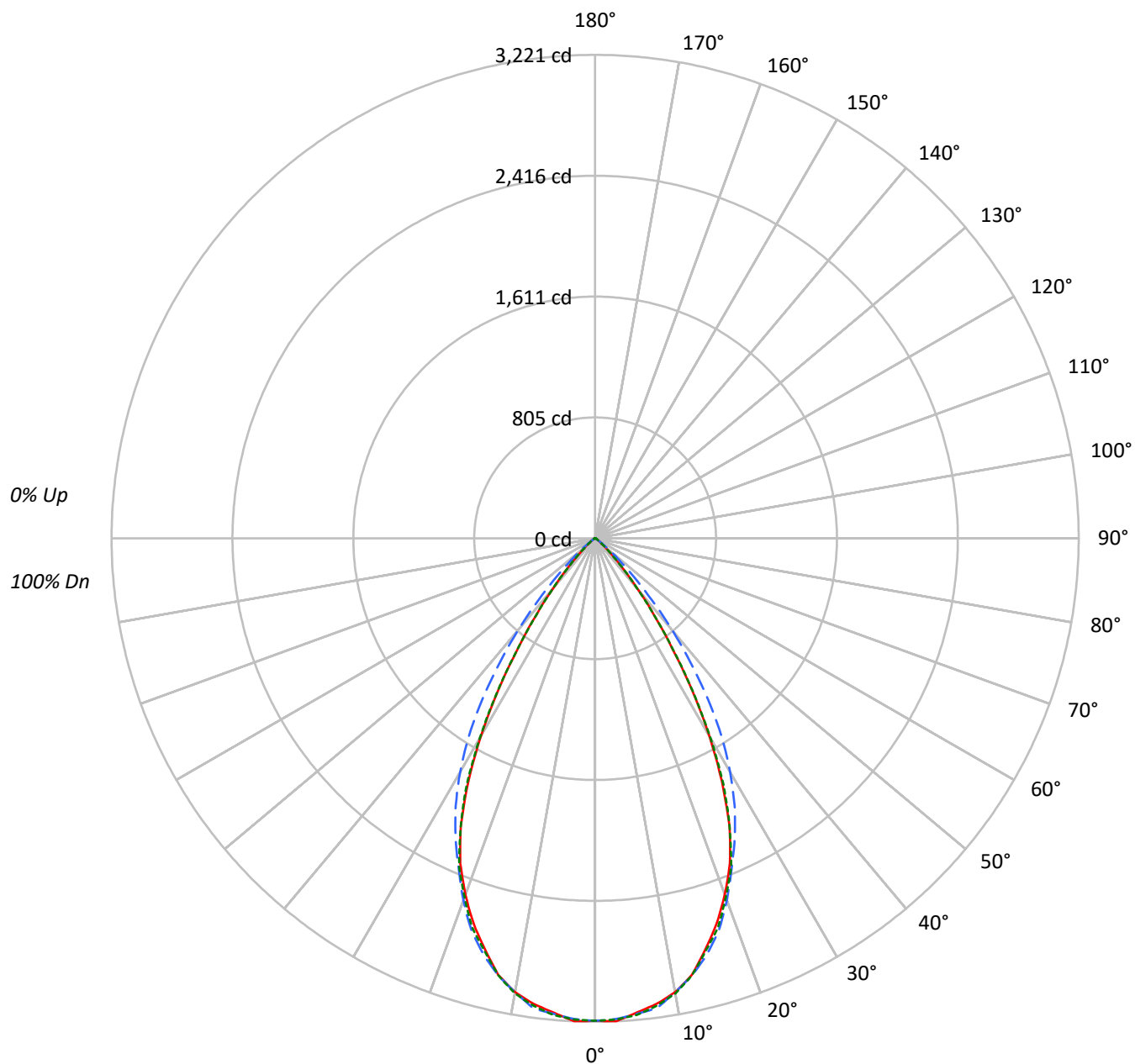
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	301.0	10.0
10°-20°	800.6	26.5
20°-30°	982.5	32.5
30°-40°	678.3	22.5
40°-50°	212.1	7.0
50°-60°	33.1	1.1
60°-70°	9.6	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°	2084.1	69.0
0°-40°	2762.4	91.4
0°-60°	3007.6	99.6
0°-90°	3021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3215	3215	3215	3215	3215	
5°	3172	3184	3180	3181	3188	300
15°	2836	2876	2872	2868	2846	793
25°	2117	2172	2200	2186	2119	948
35°	893	1056	1311	1067	897	571
45°	168	230	369	228	172	151
55°	28	30	34	30	26	28
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°	3214.7	3214.7	3214.7	3214.7	3214.7	3214.7	3214.7	3214.7	3214.7	3214.7	3214.7
2.5°	3220.8	3176.3	3204.6	3198.5	3214.7	3224.9	3214.7	3233.0	3220.8	3206.6	3210.7
5°	3172.2	3178.3	3176.3	3180.3	3184.4	3184.4	3204.6	3206.6	3210.7	3180.3	3188.4
7.5°	3129.7	3129.7	3139.8	3135.7	3149.9	3145.9	3147.9	3164.1	3166.1	3158.0	3151.9
10°	3070.9	3062.8	3052.7	3052.7	3070.9	3072.9	3089.1	3091.2	3103.3	3070.9	3075.0
12.5°	2979.8	2975.7	2959.5	2967.6	2981.8	2973.7	3000.0	3002.0	2998.0	2983.8	2991.9
15°	2835.9	2852.1	2848.1	2846.1	2878.5	2874.4	2872.4	2878.5	2880.5	2872.4	2866.3
17.5°	2692.1	2706.3	2708.3	2712.4	2718.5	2724.5	2732.6	2754.9	2746.8	2740.7	2761.0
20°	2526.0	2519.9	2536.1	2552.3	2558.4	2558.4	2570.6	2586.8	2574.6	2566.5	2568.6
22.5°	2345.7	2355.9	2347.8	2364.0	2372.1	2382.2	2394.3	2408.5	2398.4	2376.1	2402.4
25°	2116.8	2122.9	2149.2	2147.2	2159.4	2183.7	2201.9	2201.9	2201.9	2199.9	2199.9
27.5°	1829.2	1825.1	1857.5	1879.8	1910.2	1948.7	1973.0	2011.5	2017.6	2011.5	1997.3
30°	1521.3	1517.2	1557.7	1586.1	1640.8	1659.0	1725.9	1762.3	1800.8	1798.8	1788.7
32.5°	1201.2	1209.3	1241.7	1282.3	1326.8	1383.5	1446.3	1527.4	1561.8	1569.9	1551.7
35°	893.3	905.5	935.9	970.3	1025.0	1087.8	1174.9	1251.9	1310.6	1310.6	1296.4
37.5°	644.2	648.2	676.6	698.9	755.6	812.3	887.2	992.6	1029.0	1043.2	1029.0
40°	439.6	439.6	455.8	480.1	526.7	575.3	644.2	723.2	775.8	798.1	773.8
42.5°	279.5	283.6	295.7	312.0	346.4	388.9	441.6	500.3	538.8	555.0	532.8
45°	168.1	172.2	182.3	194.5	216.7	243.1	279.5	322.1	354.5	368.7	358.5
47.5°	101.3	105.3	109.4	117.5	133.7	151.9	170.2	194.5	214.7	216.7	212.7
50°	58.7	58.7	62.8	68.9	77.0	87.1	97.2	111.4	117.5	125.6	117.5
52.5°	38.5	38.5	38.5	40.5	44.6	48.6	52.7	60.8	64.8	64.8	62.8
55°	28.4	28.4	28.4	28.4	30.4	30.4	30.4	32.4	34.4	34.4	34.4
57.5°	20.3	20.3	20.3	22.3	22.3	22.3	20.3	20.3	20.3	20.3	20.3
60°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	14.2	14.2	14.2
62.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
65°	8.1	8.1	8.1	10.1	10.1	10.1	10.1	8.1	8.1	8.1	8.1
67.5°	6.1	6.1	6.1	8.1	8.1	8.1	8.1	8.1	6.1	6.1	6.1
70°	4.1	4.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	3214.7	3214.7	3214.7	3214.7	3214.7	3214.7	3214.7	3214.7
2.5°	3222.8	3212.7	3212.7	3212.7	3208.7	3212.7	3218.8	3208.7
5°	3188.4	3192.5	3174.2	3188.4	3194.5	3184.4	3208.7	3188.4
7.5°	3158.0	3151.9	3123.6	3143.8	3156.0	3160.0	3158.0	3141.8
10°	3097.3	3083.1	3070.9	3070.9	3066.9	3064.8	3087.1	3079.0
12.5°	2987.9	2998.0	2979.8	2989.9	2981.8	2983.8	2985.8	2981.8
15°	2894.7	2884.6	2860.2	2876.5	2866.3	2856.2	2876.5	2846.1
17.5°	2748.8	2746.8	2732.6	2722.5	2726.6	2724.5	2734.7	2720.5
20°	2576.7	2580.7	2572.6	2568.6	2562.5	2548.3	2560.4	2544.2
22.5°	2390.3	2394.3	2402.4	2386.2	2388.3	2368.0	2386.2	2368.0
25°	2201.9	2199.9	2189.8	2181.6	2159.4	2137.1	2133.0	2118.9
27.5°	1995.3	1981.1	1956.8	1930.5	1896.0	1865.6	1863.6	1853.5
30°	1768.4	1738.0	1693.5	1650.9	1598.3	1551.7	1551.7	1535.5
32.5°	1529.4	1460.5	1399.7	1347.1	1278.2	1251.9	1225.5	1211.4
35°	1243.8	1183.0	1110.1	1023.0	990.6	925.7	929.8	897.4
37.5°	974.3	899.4	830.5	759.6	702.9	672.5	656.3	640.1
40°	723.2	650.2	575.3	528.7	478.1	451.7	441.6	437.5
42.5°	494.3	433.5	384.9	346.4	320.1	291.7	283.6	279.5
45°	322.1	287.6	243.1	212.7	194.5	178.3	178.3	172.2
47.5°	192.4	170.2	147.9	127.6	115.5	105.3	101.3	99.3
50°	107.4	95.2	83.1	74.9	66.8	60.8	58.7	58.7
52.5°	58.7	52.7	48.6	42.5	38.5	38.5	38.5	36.5
55°	30.4	30.4	30.4	30.4	28.4	28.4	28.4	26.3
57.5°	20.3	20.3	22.3	22.3	22.3	20.3	20.3	20.3
60°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
62.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
65°	8.1	10.1	10.1	10.1	10.1	8.1	8.1	8.1
67.5°	6.1	8.1	8.1	8.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1
72.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)