

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: P136694

Luminaire Tested: **LD6A30D010TE ERW6A30935 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23376)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A30D010TE ERW6A30935 6LW121H
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOUBLE WALL WASH LUMINAIRE
SEMI-SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 3500K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2637.7 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

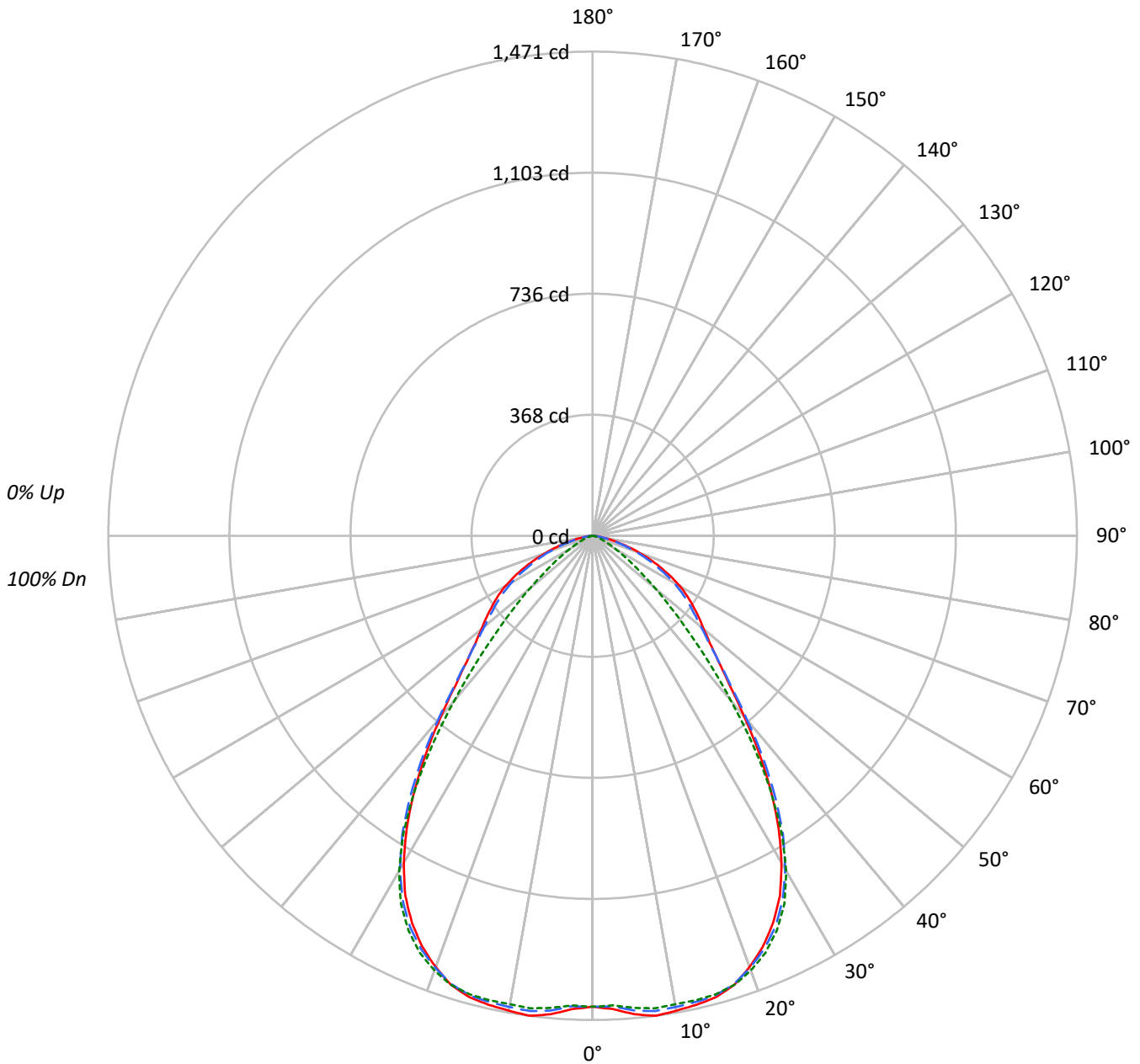
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69																			
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61																			
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55																			
6	77	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50																			
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	56	51	47	45																			
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41																			
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37																			
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	93353	93353	93353
5°	95569	94829	94266
10°	97052	96303	95740
15°	97990	97612	97416
20°	96789	96983	97574
25°	93408	94423	95236
30°	86407	88117	88547
35°	75073	76880	74850
40°	60936	62145	55613
45°	49777	50035	37718
50°	44669	43512	25070
55°	42313	40368	16152
60°	40019	37044	10373
65°	35073	32001	6561
70°	28708	25999	4330
75°	20771	18628	2848
80°	13864	11722	2142
85°	8459	6363	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	5.2
10°-20°	406.8	15.4
20°-30°	598.9	22.7
30°-40°	589.3	22.3
40°-50°	398.5	15.1
50°-60°	267.8	10.2
60°-70°	163.5	6.2
70°-80°	64.5	2.4
80°-90°	9.9	0.4
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°	1144.1	43.4
0°-40°	1733.4	65.7
0°-60°	2399.8	91.0
0°-90°	2637.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2637.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1459	1454	1448	1447	1439	140
15°	1451	1445	1445	1447	1442	408
25°	1298	1302	1312	1324	1323	593
35°	943	954	965	950	940	584
45°	540	548	542	449	409	426
55°	372	376	355	199	142	334
65°	227	229	207	84	42	226
75°	82	82	74	28	11	92
85°	11	8	8	4	3	15
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°	1430.9	1430.9	1430.9	1430.9	1430.9	1430.9	1430.9	1430.9	1430.9	1430.9	1430.9
2.5°	1439.4	1433.8	1436.6	1433.8	1433.8	1428.1	1433.8	1433.8	1430.9	1430.9	1430.9
5°	1459.3	1456.5	1459.3	1453.7	1456.5	1450.8	1453.7	1450.8	1448.0	1448.0	1448.0
7.5°	1470.7	1465.0	1467.8	1462.2	1465.0	1459.3	1462.2	1459.3	1456.5	1456.5	1453.7
10°	1465.0	1462.2	1462.2	1459.3	1459.3	1453.7	1459.3	1456.5	1450.8	1453.7	1450.8
12.5°	1459.3	1456.5	1459.3	1453.7	1456.5	1448.0	1453.7	1450.8	1448.0	1450.8	1448.0
15°	1450.8	1448.0	1450.8	1445.2	1448.0	1442.3	1448.0	1445.2	1442.3	1445.2	1442.3
17.5°	1430.9	1428.1	1430.9	1428.1	1430.9	1422.5	1428.1	1428.1	1425.3	1428.1	1428.1
20°	1394.1	1391.2	1394.1	1391.2	1394.1	1388.4	1394.1	1394.1	1391.2	1396.9	1396.9
22.5°	1351.4	1351.4	1351.4	1351.4	1354.3	1348.6	1354.3	1354.3	1354.3	1360.0	1360.0
25°	1297.6	1300.4	1300.4	1300.4	1303.2	1300.4	1306.0	1306.0	1306.0	1311.7	1311.7
27.5°	1232.2	1232.2	1235.0	1237.8	1237.8	1235.0	1240.8	1243.6	1243.6	1249.3	1252.1
30°	1147.0	1149.8	1152.8	1155.6	1158.4	1155.6	1161.2	1161.2	1164.1	1169.7	1172.6
32.5°	1050.5	1056.2	1056.2	1061.8	1064.7	1061.8	1070.4	1067.6	1070.4	1076.1	1078.9
35°	942.6	948.3	948.3	954.0	954.0	954.0	959.7	962.5	962.5	965.3	965.3
37.5°	829.0	834.8	831.9	840.4	840.4	837.6	848.9	848.9	846.1	848.9	846.1
40°	715.5	721.2	721.2	726.8	726.8	726.8	735.3	729.7	729.7	729.7	724.0
42.5°	616.1	621.8	621.8	627.5	627.5	627.5	633.2	633.2	627.5	624.6	616.1
45°	539.5	542.3	545.2	548.0	548.0	548.0	553.6	550.8	548.0	542.3	528.1
47.5°	482.7	485.5	485.5	488.4	488.4	488.4	491.2	491.2	485.5	477.0	462.8
50°	440.1	440.1	442.9	442.9	445.7	442.9	445.7	442.9	437.2	428.7	411.7
52.5°	406.0	406.0	406.0	408.8	408.8	408.8	408.8	406.0	400.4	388.9	369.1
55°	372.0	372.0	374.8	374.8	377.6	374.8	374.8	372.0	363.4	354.9	332.1
57.5°	340.7	340.7	340.7	343.6	343.6	343.6	340.7	337.9	332.1	320.8	298.1
60°	306.7	306.7	306.7	306.7	309.5	306.7	306.7	300.9	295.3	283.9	264.0
62.5°	266.9	266.9	266.9	269.7	269.7	266.9	266.9	261.2	255.5	244.1	224.3
65°	227.2	227.2	227.2	230.0	230.0	227.2	227.2	221.5	215.7	207.3	187.3
67.5°	190.3	190.3	190.3	190.3	190.3	187.3	187.3	184.5	178.9	170.4	156.1
70°	150.5	150.5	150.5	153.3	150.5	150.5	150.5	147.6	142.0	136.3	122.1
72.5°	116.4	116.4	116.4	116.4	116.4	116.4	113.6	113.6	107.9	102.3	93.7
75°	82.4	82.4	82.4	82.4	82.4	82.4	82.4	79.5	76.7	73.9	65.3
77.5°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	54.0	54.0	51.1	45.5
80°	36.9	36.9	36.9	36.9	36.9	34.1	34.1	34.1	34.1	31.2	28.4
82.5°	22.7	19.9	22.7	19.9	19.9	19.9	19.9	19.9	19.9	19.9	17.1
85°	11.3	11.3	11.3	11.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	1430.9	1430.9	1430.9	1430.9	1430.9	1430.9	1430.9	1430.9
2.5°	1430.9	1425.3	1430.9	1433.8	1428.1	1430.9	1433.8	1428.1
5°	1448.0	1439.4	1445.2	1448.0	1439.4	1442.3	1445.2	1439.4
7.5°	1456.5	1448.0	1453.7	1453.7	1445.2	1450.8	1453.7	1448.0
10°	1450.8	1445.2	1450.8	1450.8	1445.2	1448.0	1450.8	1445.2
12.5°	1448.0	1442.3	1448.0	1450.8	1442.3	1448.0	1450.8	1445.2
15°	1445.2	1439.4	1445.2	1448.0	1439.4	1445.2	1448.0	1442.3
17.5°	1428.1	1425.3	1433.8	1433.8	1428.1	1433.8	1436.6	1430.9
20°	1399.7	1396.9	1405.4	1408.2	1402.6	1408.2	1411.0	1405.4
22.5°	1362.8	1360.0	1368.5	1371.3	1365.7	1371.3	1374.2	1371.3
25°	1317.4	1314.5	1323.0	1325.9	1320.2	1325.9	1328.8	1323.0
27.5°	1254.9	1252.1	1260.6	1260.6	1257.7	1263.4	1266.2	1260.6
30°	1175.4	1169.7	1178.2	1175.4	1172.6	1178.2	1178.2	1175.4
32.5°	1076.1	1070.4	1076.1	1070.4	1070.4	1073.2	1073.2	1067.6
35°	959.7	956.8	954.0	945.4	945.4	945.4	945.4	939.8
37.5°	837.6	829.0	823.3	809.2	803.5	806.4	803.5	797.8
40°	712.6	698.4	687.1	670.1	661.6	661.6	658.7	653.0
42.5°	601.9	582.0	565.0	542.3	533.7	530.9	525.2	522.4
45°	511.1	485.5	460.0	437.2	423.1	420.2	414.5	408.8
47.5°	440.1	408.8	377.6	352.1	337.9	329.3	323.7	320.8
50°	383.3	349.2	312.3	281.1	266.9	255.5	249.9	247.0
52.5°	337.9	300.9	258.4	227.2	210.1	198.8	193.1	187.3
55°	300.9	258.4	215.7	181.7	164.7	153.3	147.6	142.0
57.5°	264.0	224.3	178.9	144.8	127.7	116.4	110.7	107.9
60°	230.0	190.3	147.6	116.4	99.3	88.0	82.4	79.5
62.5°	195.9	159.0	122.1	93.7	76.7	65.3	59.6	59.6
65°	161.9	130.6	96.5	70.9	56.8	48.3	42.5	42.5
67.5°	133.5	105.1	76.7	56.8	42.5	36.9	31.2	31.2
70°	105.1	85.2	59.6	45.5	34.1	25.6	22.7	22.7
72.5°	79.5	65.3	45.5	34.1	25.6	19.9	17.1	17.1
75°	56.8	45.5	34.1	22.7	17.1	14.2	11.3	11.3
77.5°	39.7	31.2	22.7	17.1	11.3	8.5	8.5	8.5
80°	25.6	19.9	14.2	11.3	8.5	5.7	5.7	5.7
82.5°	14.2	11.3	8.5	5.7	5.7	2.8	2.8	2.8
85°	5.7	5.7	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	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)