

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: P136695

Luminaire Tested: **LD6A30D010TE ERW6A30940 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136695
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 ERW6A30940 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 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2691.5 lumens
Efficiency: N/A
Efficacy: 59.3 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

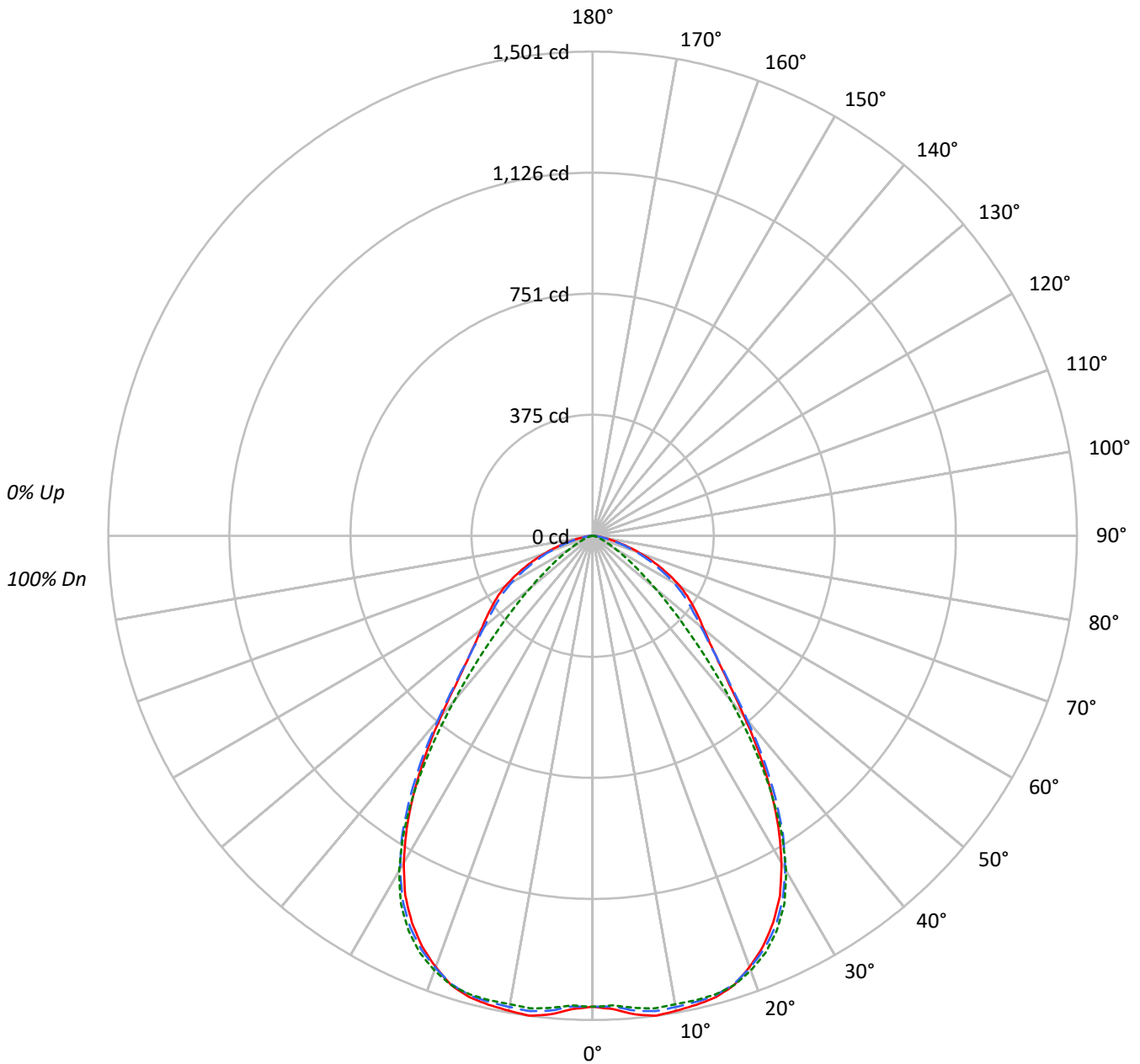
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	95264	95264	95264
5°	97527	96768	96191
10°	99033	98271	97695
15°	99989	99604	99408
20°	98761	98962	99566
25°	95308	96352	97187
30°	88178	89925	90355
35°	76602	78449	76371
40°	62179	63414	56746
45°	50782	51059	38483
50°	45582	44405	25587
55°	43166	41198	16481
60°	40828	37800	10595
65°	35784	32650	6715
70°	29299	26514	4425
75°	21174	18981	2924
80°	14164	11985	2179
85°	8683	6512	2171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	5.2
10°-20°	415.1	15.4
20°-30°	611.1	22.7
30°-40°	601.4	22.3
40°-50°	406.7	15.1
50°-60°	273.3	10.2
60°-70°	166.8	6.2
70°-80°	65.8	2.4
80°-90°	10.1	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°	1167.5	43.4
0°-40°	1768.8	65.7
0°-60°	2448.8	91.0
0°-90°	2691.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2691.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1489	1483	1478	1476	1469	142
15°	1480	1475	1475	1476	1472	416
25°	1324	1328	1338	1352	1350	605
35°	962	973	985	969	959	596
45°	550	559	553	458	417	435
55°	380	384	362	203	145	340
65°	232	233	212	85	44	230
75°	84	84	75	29	12	94
85°	12	9	9	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°	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2
2.5°	1468.8	1463.1	1466.0	1463.1	1463.1	1457.2	1463.1	1463.1	1460.2	1460.2	1460.2
5°	1489.2	1486.3	1489.2	1483.4	1486.3	1480.4	1483.4	1480.4	1477.6	1477.6	1477.6
7.5°	1500.7	1494.9	1497.9	1492.0	1494.9	1489.2	1492.0	1489.2	1486.3	1486.3	1483.4
10°	1494.9	1492.0	1492.0	1489.2	1489.2	1483.4	1489.2	1486.3	1480.4	1483.4	1480.4
12.5°	1489.2	1486.3	1489.2	1483.4	1486.3	1477.6	1483.4	1480.4	1477.6	1480.4	1477.6
15°	1480.4	1477.6	1480.4	1474.7	1477.6	1471.8	1477.6	1474.7	1471.8	1474.7	1471.8
17.5°	1460.2	1457.2	1460.2	1457.2	1460.2	1451.5	1457.2	1457.2	1454.4	1457.2	1457.2
20°	1422.5	1419.6	1422.5	1419.6	1422.5	1416.7	1422.5	1422.5	1419.6	1425.4	1425.4
22.5°	1379.1	1379.1	1379.1	1379.1	1381.9	1376.2	1381.9	1381.9	1381.9	1387.8	1387.8
25°	1324.0	1326.9	1326.9	1326.9	1329.8	1326.9	1332.7	1332.7	1332.7	1338.5	1338.5
27.5°	1257.4	1257.4	1260.3	1263.1	1263.1	1260.3	1266.1	1269.0	1269.0	1274.7	1277.7
30°	1170.5	1173.4	1176.2	1179.1	1182.1	1179.1	1185.0	1185.0	1187.8	1193.7	1196.6
32.5°	1072.0	1077.7	1077.7	1083.5	1086.5	1083.5	1092.2	1089.3	1092.2	1098.1	1100.9
35°	961.8	967.7	967.7	973.4	973.4	973.4	979.3	982.1	982.1	985.0	985.0
37.5°	846.0	851.7	848.9	857.6	857.6	854.7	866.3	866.3	863.3	866.3	863.3
40°	730.1	735.9	735.9	741.7	741.7	741.7	750.4	744.6	744.6	744.6	738.8
42.5°	628.7	634.4	634.4	640.3	640.3	640.3	646.0	646.0	640.3	637.4	628.7
45°	550.4	553.4	556.3	559.1	559.1	559.1	565.0	562.0	559.1	553.4	538.9
47.5°	492.6	495.4	495.4	498.3	498.3	498.3	501.2	501.2	495.4	486.7	472.2
50°	449.1	449.1	451.9	451.9	454.9	451.9	454.9	451.9	446.2	437.5	420.1
52.5°	414.3	414.3	414.3	417.1	417.1	417.1	417.1	414.3	408.5	396.9	376.6
55°	379.5	379.5	382.5	382.5	385.3	382.5	382.5	379.5	370.9	362.2	339.0
57.5°	347.7	347.7	347.7	350.6	350.6	350.6	347.7	344.7	339.0	327.4	304.2
60°	312.9	312.9	312.9	312.9	315.8	312.9	312.9	307.1	301.3	289.7	269.4
62.5°	272.3	272.3	272.3	275.3	275.3	272.3	272.3	266.5	260.8	249.2	228.9
65°	231.8	231.8	231.8	234.6	234.6	231.8	231.8	226.0	220.2	211.5	191.2
67.5°	194.1	194.1	194.1	194.1	194.1	191.2	191.2	188.4	182.5	173.8	159.3
70°	153.6	153.6	153.6	156.5	153.6	153.6	153.6	150.6	144.9	139.0	124.5
72.5°	118.8	118.8	118.8	118.8	118.8	118.8	115.9	115.9	110.1	104.3	95.6
75°	84.0	84.0	84.0	84.0	84.0	84.0	84.0	81.2	78.2	75.3	66.6
77.5°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	55.1	55.1	52.1	46.4
80°	37.7	37.7	37.7	37.7	37.7	34.8	34.8	34.8	34.8	31.9	28.9
82.5°	23.2	20.3	23.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	17.3
85°	11.6	11.6	11.6	11.6	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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°	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2	1460.2
2.5°	1460.2	1454.4	1460.2	1463.1	1457.2	1460.2	1463.1	1457.2
5°	1477.6	1468.8	1474.7	1477.6	1468.8	1471.8	1474.7	1468.8
7.5°	1486.3	1477.6	1483.4	1483.4	1474.7	1480.4	1483.4	1477.6
10°	1480.4	1474.7	1480.4	1480.4	1474.7	1477.6	1480.4	1474.7
12.5°	1477.6	1471.8	1477.6	1480.4	1471.8	1477.6	1480.4	1474.7
15°	1474.7	1468.8	1474.7	1477.6	1468.8	1474.7	1477.6	1471.8
17.5°	1457.2	1454.4	1463.1	1463.1	1457.2	1463.1	1466.0	1460.2
20°	1428.3	1425.4	1434.1	1437.0	1431.2	1437.0	1439.9	1434.1
22.5°	1390.7	1387.8	1396.4	1399.4	1393.5	1399.4	1402.3	1399.4
25°	1344.3	1341.4	1350.1	1353.0	1347.2	1353.0	1355.9	1350.1
27.5°	1280.6	1277.7	1286.3	1286.3	1283.5	1289.2	1292.2	1286.3
30°	1199.4	1193.7	1202.3	1199.4	1196.6	1202.3	1202.3	1199.4
32.5°	1098.1	1092.2	1098.1	1092.2	1092.2	1095.1	1095.1	1089.3
35°	979.3	976.4	973.4	964.8	964.8	964.8	964.8	958.9
37.5°	854.7	846.0	840.1	825.7	819.9	822.8	819.9	814.1
40°	727.2	712.7	701.1	683.7	675.1	675.1	672.2	666.3
42.5°	614.2	593.9	576.6	553.4	544.7	541.8	536.0	533.1
45°	521.5	495.4	469.4	446.2	431.7	428.7	423.0	417.1
47.5°	449.1	417.1	385.3	359.3	344.7	336.1	330.3	327.4
50°	391.1	356.3	318.7	286.9	272.3	260.8	254.9	252.1
52.5°	344.7	307.1	263.7	231.8	214.4	202.8	197.0	191.2
55°	307.1	263.7	220.2	185.4	168.0	156.5	150.6	144.9
57.5°	269.4	228.9	182.5	147.7	130.4	118.8	113.0	110.1
60°	234.6	194.1	150.6	118.8	101.4	89.8	84.0	81.2
62.5°	199.9	162.2	124.5	95.6	78.2	66.6	60.8	60.8
65°	165.2	133.3	98.5	72.4	58.0	49.2	43.5	43.5
67.5°	136.1	107.2	78.2	58.0	43.5	37.7	31.9	31.9
70°	107.2	86.9	60.8	46.4	34.8	26.1	23.2	23.2
72.5°	81.2	66.6	46.4	34.8	26.1	20.3	17.3	17.3
75°	58.0	46.4	34.8	23.2	17.3	14.5	11.6	11.6
77.5°	40.5	31.9	23.2	17.3	11.6	8.7	8.7	8.7
80°	26.1	20.3	14.5	11.6	8.7	5.8	5.8	5.8
82.5°	14.5	11.6	8.7	5.8	5.8	2.9	2.9	2.9
85°	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9
87.5°	2.9	2.9	2.9	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)