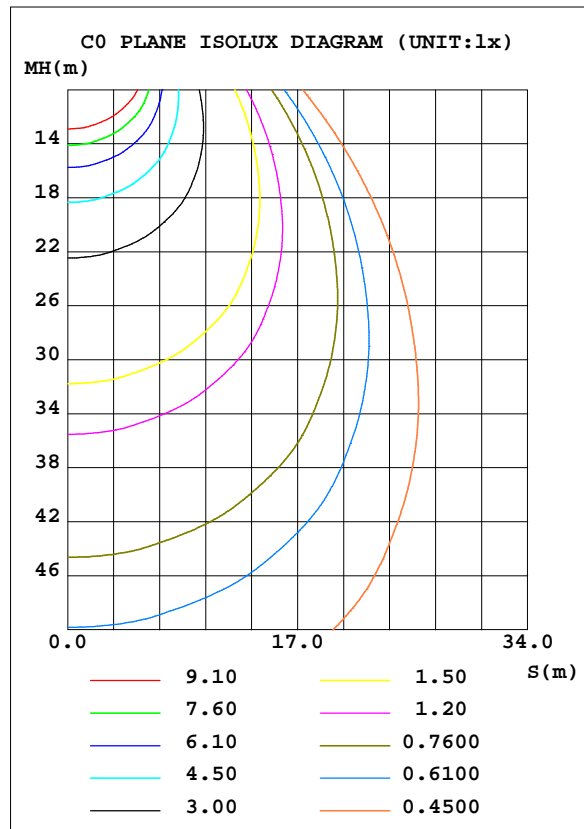
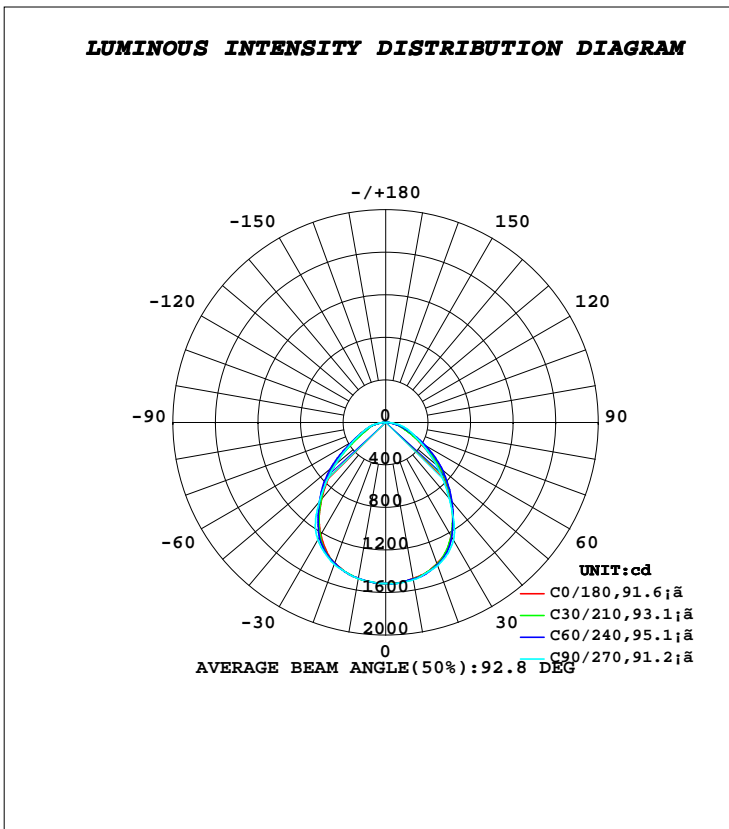


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:231.4V I:0.1263A P:28.61W PF:0.9788 Lamp Flux:3407.49x1 lm		
NAME: SVT-ARM-U-AIR	TYPE:	WEIGHT:
DIM.: CCT=3959K;Ra=84;t=36C;Kp=0.2%	SPEC.:	SERIAL No.:
MFR.: MC Clever	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.11 lm/W			
MODEL		I <sub>max</sub> (cd)	1519	S/MH(C0/180)	1.21
NOMINAL POWER(W)	0	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	0	TOTAL FLUX(lm)	3407.5	η UP, DN(C0-180)	0.0, 50.8
NOMINAL FLUX(lm)	3407.49	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	0.5	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25DEG  
 Operators: Skobnikov  
 Test Date: 2019-05-15

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
 Humidity: 40%  
 Test Distance: 10.850m [K=1.0000]  
 Remarks: 4494  
 E(t) = -4%

**ZONAL FLUX DIAGRAM**
**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
5	1511	1514	1516	1508	1507	1508	1506	1509	0- 5	36.17	36.17	1.06,1.06
10	1490	1496	1502	1497	1489	1490	1490	1491	5- 10	107.4	143.6	4.21,4.21
15	1464	1468	1468	1462	1457	1458	1458	1459	10- 15	175.3	318.9	9.36,9.36
20	1412	1419	1431	1418	1407	1409	1419	1412	15- 20	237.2	556.1	16.3,16.3
25	1345	1345	1370	1336	1327	1343	1355	1340	20- 25	289.7	845.9	24.8,24.8
30	1232	1233	1275	1225	1222	1239	1276	1234	25- 30	327.6	1173	34.4,34.4
35	1102	1100	1114	1098	1093	1099	1153	1096	30- 35	345.6	1519	44.6,44.6
40	949.4	967.3	929.7	969.9	935.9	958.5	970.0	958.7	35- 40	343.7	1863	54.7,54.7
45	788.7	838.7	769.6	841.2	776.5	821.4	791.1	822.3	40- 45	326.1	2189	64.2,64.2
50	633.2	707.6	623.0	705.9	623.6	662.4	622.9	664.6	45- 50	295.0	2484	72.9,72.9
55	488.1	562.1	491.1	551.3	484.5	491.5	472.4	488.5	50- 55	251.7	2736	80.3,80.3
60	364.4	405.6	384.8	402.2	365.3	346.8	351.1	340.0	55- 60	200.7	2936	86.2,86.2
65	279.5	280.8	302.2	286.2	274.6	246.1	266.6	234.7	60- 65	154.1	3090	90.7,90.7
70	208.6	191.1	240.0	195.7	198.8	178.7	203.2	169.2	65- 70	117.8	3208	94.2,94.2
75	153.8	127.5	186.3	129.9	150.2	132.5	154.2	122.5	70- 75	90.59	3299	96.8,96.8
80	101.9	71.55	121.2	73.81	99.23	77.64	103.6	70.87	75- 80	64.72	3364	98.7,98.7
85	45.56	32.81	51.98	36.21	43.52	28.98	42.27	29.07	80- 85	33.59	3397	99.7,99.7
90	2.440	3.126	3.211	3.827	1.567	2.374	2.500	2.682	85- 90	10.31	3407	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: MEDIUM**  
**Temperature:25DEG**  
**Operators:Skobnikov**  
**Test Date:2019-05-15**

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265**  
**Humidity:40%**  
**Test Distance:10.850m [K=1.0000]**  
**Remarks: 4494**  
**E(t)=-4%**

**Photometric Data Table [cd]**

G/C	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0
0.0	1515	1515	1515	1515	1515	1515	1515	1515	1515	1515
2.5	1514	1515	1515	1516	1517	1518	1518	1518	1517	1517
5.0	1511	1513	1513	1513	1514	1514	1514	1515	1517	1516
7.5	1504	1505	1505	1505	1504	1502	1502	1503	1506	1508
10.0	1490	1493	1494	1494	1496	1495	1495	1495	1498	1502
12.5	1479	1482	1484	1483	1484	1485	1488	1486	1487	1489
15.0	1464	1465	1464	1464	1467	1468	1473	1474	1470	1468
17.5	1440	1443	1442	1442	1445	1446	1450	1453	1453	1451
20.0	1412	1415	1416	1417	1417	1421	1424	1428	1430	1431
22.5	1382	1380	1383	1384	1384	1391	1394	1398	1402	1403
25.0	1345	1338	1338	1339	1340	1349	1355	1362	1367	1370
27.5	1293	1288	1287	1288	1290	1293	1305	1316	1326	1327
30.0	1232	1234	1231	1232	1233	1234	1242	1257	1271	1275
32.5	1171	1170	1169	1167	1164	1170	1174	1184	1198	1204
35.0	1102	1102	1102	1097	1097	1103	1105	1110	1115	1114
37.5	1029	1028	1026	1028	1033	1036	1038	1036	1025	1019
40.0	949.4	949.9	955.0	958.6	966.1	968.5	971.2	959.5	939.4	929.7
42.5	868.0	873.7	882.6	889.8	902.4	904.5	903.1	880.9	856.4	847.3
45.0	788.7	796.9	804.8	819.1	835.1	842.3	830.4	803.3	780.5	769.6
47.5	710.4	719.7	728.8	746.8	768.2	779.4	764.3	730.0	707.9	695.0
50.0	633.2	643.3	654.7	674.3	702.0	713.2	700.6	662.0	636.2	623.0
52.5	558.3	569.8	583.3	602.8	632.4	643.9	631.9	601.5	569.5	554.8
55.0	488.1	499.4	514.7	527.8	555.0	569.1	562.5	543.0	508.0	491.1
57.5	422.9	434.5	443.1	450.9	474.4	491.6	495.1	486.4	454.3	434.4
60.0	364.4	375.6	372.7	377.2	395.9	415.4	427.4	430.6	407.3	384.8
62.5	317.7	324.8	314.5	313.8	330.9	345.2	363.2	375.9	363.3	339.5
65.0	279.5	283.7	265.1	262.5	274.4	287.3	307.5	324.1	322.8	302.2
67.5	242.5	246.0	225.4	218.6	225.2	238.1	256.7	278.6	282.9	269.7
70.0	208.6	210.8	197.1	183.6	185.5	196.7	214.8	236.5	247.4	240.0
72.5	177.9	180.8	173.6	156.8	152.9	162.9	178.6	198.2	212.4	214.5
75.0	153.8	155.3	152.7	134.8	125.0	130.0	147.3	165.9	179.6	186.3
77.5	130.4	128.5	127.7	112.7	99.88	97.22	111.4	131.1	150.5	155.7
80.0	101.9	98.43	96.04	86.66	75.00	68.11	73.54	90.93	112.2	121.2
82.5	72.99	69.08	66.44	61.00	53.26	45.77	45.45	54.88	72.72	83.86
85.0	45.56	42.82	41.79	39.93	35.59	30.03	27.58	31.80	43.24	51.98
87.5	22.81	21.49	21.83	21.38	21.54	18.68	16.48	17.16	22.39	25.22
90.0	2.440	2.415	2.520	2.631	3.064	3.188	3.255	3.168	3.224	3.211
G/C	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0
0.0	1515	1515	1515	1515	1515	1515	1515	1515	1515	1515
2.5	1516	1516	1515	1514	1513	1513	1513	1513	1513	1513
5.0	1515	1513	1511	1509	1508	1508	1509	1508	1507	1506
7.5	1508	1507	1505	1503	1504	1503	1505	1504	1501	1499
10.0	1502	1497	1494	1497	1496	1494	1494	1494	1489	1488
12.5	1490	1487	1483	1480	1480	1477	1480	1483	1478	1478
15.0	1468	1471	1470	1462	1461	1462	1463	1464	1457	1460
17.5	1449	1449	1447	1443	1444	1442	1441	1437	1431	1437
20.0	1425	1424	1421	1419	1418	1417	1414	1411	1407	1408
22.5	1396	1393	1389	1383	1380	1379	1377	1381	1374	1371
25.0	1364	1357	1348	1337	1334	1331	1333	1340	1327	1331
27.5	1323	1306	1294	1284	1285	1278	1284	1288	1277	1285
30.0	1266	1244	1231	1225	1226	1221	1227	1230	1222	1229
32.5	1195	1177	1169	1161	1161	1159	1165	1166	1159	1166
35.0	1116	1110	1105	1099	1098	1095	1099	1101	1093	1094
37.5	1028	1040	1037	1035	1030	1027	1028	1031	1017	1015
40.0	943.2	965.7	973.0	971.9	967.9	960.1	958.3	957.9	935.9	933.0
42.5	862.1	888.6	907.8	908.6	906.8	893.3	886.8	883.1	856.3	849.1
45.0	778.6	809.6	837.6	844.8	837.6	825.2	811.0	805.5	776.5	769.9
47.5	704.4	734.3	769.6	780.2	770.3	755.4	737.0	725.7	697.3	692.2
50.0	635.4	665.1	699.7	708.4	703.4	683.2	663.9	647.5	623.6	616.0
52.5	568.3	600.0	623.6	633.3	626.4	606.9	589.9	573.7	550.8	541.8
55.0	508.4	535.8	549.1	554.6	548.0	526.4	516.0	503.3	484.5	470.7
57.5	452.1	474.0	476.3	478.8	469.7	448.7	443.7	438.3	421.4	402.9
60.0	401.1	413.9	409.9	408.0	396.5	379.9	374.3	377.3	365.3	344.4
62.5	354.8	357.9	352.0	344.9	337.0	320.0	318.1	323.3	315.0	296.8
65.0	311.7	310.3	300.9	291.4	281.1	268.1	268.0	278.6	274.6	259.7
67.5	271.6	267.6	255.1	243.4	230.5	222.4	226.1	240.4	235.3	231.3
70.0	236.0	227.3	215.1	201.6	189.7	186.2	197.3	207.6	198.8	209.0
72.5	201.1	191.7	180.3	167.0	155.7	158.6	175.4	181.4	170.6	187.2
75.0	170.7	162.4	149.0	132.6	127.3	137.5	157.2	159.8	150.2	164.7
77.5	143.5	129.7	112.7	98.84	102.3	116.2	134.1	135.1	128.0	137.8
80.0	107.5	90.60	74.59	69.74	77.87	91.15	103.1	104.5	99.23	105.2
82.5	69.80	55.36	47.03	47.78	56.21	66.29	73.78	75.01	71.07	71.35
85.0	41.76	32.59	29.46	33.09	39.32	45.08	47.76	47.63	43.52	42.65

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: MEDIUM**  
**Temperature: 25DEG**  
**Operators: Skobnikov**  
**Test Date: 2019-05-15**

**γ Range: 0 - 90DEG**  
**γ Interval: 0.5DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265**  
**Humidity: 40%**  
**Test Distance: 10.850m [K=1.0000]**  
**Remarks: 4494**  
**E(t)=-4%**

**Photometric Data Table [cd]**

87.5	21.87	17.88	18.04	21.29	24.90	24.87	25.52	24.51	19.76	19.62
90.0	3.292	3.378	3.557	3.738	3.916	3.799	3.740	3.479	1.567	1.654
G/C	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0
0.0	1515	1515	1515	1515	1515	1515	1515	1515	1515	1515
2.5	1513	1514	1513	1514	1514	1515	1513	1513	1512	1512
5.0	1505	1507	1507	1508	1508	1507	1506	1506	1505	1504
7.5	1498	1500	1501	1500	1499	1499	1500	1501	1500	1500
10.0	1488	1491	1490	1490	1487	1486	1488	1490	1489	1488
12.5	1474	1473	1474	1478	1477	1475	1476	1477	1472	1475
15.0	1457	1457	1457	1460	1460	1459	1459	1458	1455	1456
17.5	1439	1435	1437	1440	1436	1439	1442	1439	1436	1437
20.0	1408	1407	1406	1411	1408	1416	1418	1419	1413	1415
22.5	1372	1377	1375	1380	1380	1383	1386	1390	1385	1385
25.0	1334	1341	1339	1346	1344	1350	1353	1355	1357	1350
27.5	1286	1292	1291	1299	1300	1312	1315	1319	1318	1308
30.0	1229	1232	1236	1242	1249	1263	1272	1276	1272	1259
32.5	1167	1166	1167	1173	1180	1199	1214	1223	1212	1194
35.0	1097	1095	1095	1103	1110	1126	1142	1153	1142	1124
37.5	1015	1020	1024	1032	1040	1052	1059	1066	1060	1050
40.0	935.5	943.0	953.2	963.7	969.1	976.7	971.9	970.0	971.7	973.0
42.5	853.9	870.1	885.4	897.2	901.2	899.0	884.5	878.0	880.6	893.8
45.0	772.7	793.0	813.9	828.9	832.4	822.5	799.8	791.1	792.0	816.1
47.5	690.1	711.5	733.5	754.6	757.3	745.3	715.7	705.6	707.7	736.4
50.0	611.8	629.2	651.0	673.9	680.3	668.6	638.1	622.9	630.2	660.4
52.5	532.1	541.0	561.8	588.2	596.8	590.3	563.9	543.8	555.4	584.4
55.0	457.1	458.7	478.2	504.8	516.4	515.3	494.7	472.4	488.3	508.1
57.5	383.0	380.6	400.1	426.3	438.6	443.1	427.5	406.3	422.8	435.1
60.0	319.8	317.7	332.9	360.8	373.6	383.0	367.9	351.1	362.9	367.5
62.5	272.8	268.2	279.7	303.8	317.1	328.7	315.5	304.1	309.5	310.7
65.0	237.3	229.3	235.2	257.1	272.0	284.6	271.6	266.6	262.7	264.5
67.5	211.1	200.2	199.2	216.6	232.8	246.0	234.5	233.1	225.0	227.0
70.0	195.4	179.2	172.5	185.0	200.6	211.5	202.2	203.2	194.2	196.0
72.5	178.8	161.0	150.9	161.2	175.6	184.6	175.9	177.2	169.9	172.1
75.0	157.6	140.9	128.2	136.7	151.6	161.9	156.5	154.2	151.2	151.0
77.5	132.0	117.5	104.7	107.7	121.6	135.2	135.6	131.7	131.0	126.5
80.0	99.76	88.95	77.66	77.61	85.45	101.3	106.0	103.6	102.7	95.19
82.5	66.79	59.54	51.27	49.61	52.16	64.32	70.71	71.63	69.25	60.63
85.0	37.89	35.07	30.06	27.89	26.77	34.39	39.04	42.27	38.81	32.72
87.5	16.43	16.45	14.73	14.07	12.38	15.31	17.54	19.65	16.96	14.78
90.0	1.820	2.037	2.278	2.470	2.587	2.648	2.537	2.500	2.506	2.679
G/C	300.0	310.0	320.0	330.0	340.0	350.0				
0.0	1515	1515	1515	1515	1515	1515				
2.5	1511	1512	1512	1512	1513	1513				
5.0	1505	1508	1510	1513	1512	1511				
7.5	1500	1503	1505	1506	1505	1501				
10.0	1489	1490	1492	1493	1491	1488				
12.5	1476	1477	1478	1479	1477	1476				
15.0	1455	1459	1459	1456	1456	1459				
17.5	1434	1438	1437	1431	1435	1436				
20.0	1413	1412	1411	1409	1412	1412				
22.5	1382	1383	1375	1375	1377	1381				
25.0	1342	1344	1335	1333	1333	1337				
27.5	1299	1297	1291	1289	1285	1285				
30.0	1243	1237	1231	1232	1230	1227				
32.5	1174	1169	1159	1163	1160	1161				
35.0	1106	1100	1092	1090	1086	1091				
37.5	1034	1031	1024	1019	1011	1013				
40.0	965.1	963.0	954.4	948.5	935.7	931.2				
42.5	898.2	897.4	886.7	875.3	857.5	845.9				
45.0	828.5	827.6	817.0	799.9	775.1	764.6				
47.5	754.3	755.0	737.7	719.1	688.9	683.1				
50.0	677.0	674.8	654.4	630.4	605.5	603.1				
52.5	592.7	587.4	561.5	535.7	519.4	524.2				
55.0	508.9	501.8	475.2	447.5	438.1	449.8				
57.5	428.3	421.3	394.4	366.2	361.3	380.1				
60.0	359.5	353.9	326.0	303.8	299.5	322.0				
62.5	301.6	294.0	270.1	252.0	252.2	276.7				
65.0	254.6	245.2	224.2	212.7	217.0	241.2				
67.5	216.0	205.4	189.8	184.2	193.5	216.8				
70.0	186.1	174.9	163.5	163.9	178.4	199.2				
72.5	163.1	151.0	141.0	144.6	163.2	179.9				
75.0	140.0	126.4	118.5	125.2	143.3	158.6				
77.5	111.5	98.72	95.61	103.5	119.1	131.0				

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: MEDIUM**  
**Temperature: 25DEG**  
**Operators: Skobnikov**  
**Test Date: 2019-05-15**

**γ Range: 0 - 90DEG**  
**γ Interval: 0.5DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265**  
**Humidity: 40%**  
**Test Distance: 10.850m [K=1.0000]**  
**Remarks: 4494**  
**E(t) = -4%**

## Photometric Data Table [cd]

80.0	77.70	71.01	70.74	77.92	88.29	97.40
82.5	47.97	46.24	47.38	52.75	57.91	63.57
85.0	26.09	28.33	29.80	32.74	33.65	36.61
87.5	13.35	15.92	16.02	16.68	15.16	16.38
90.0	2.778	2.754	2.611	2.432	2.260	2.142

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: MEDIUM**  
**Temperature: 25DEG**  
**Operators: Skobnikov**  
**Test Date: 2019-05-15**

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  Interval: 0.5DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265**  
**Humidity: 40%**  
**Test Distance: 10.850m [K=1.0000]**  
**Remarks: 4494**  
 **$E(t) = -4\%$**