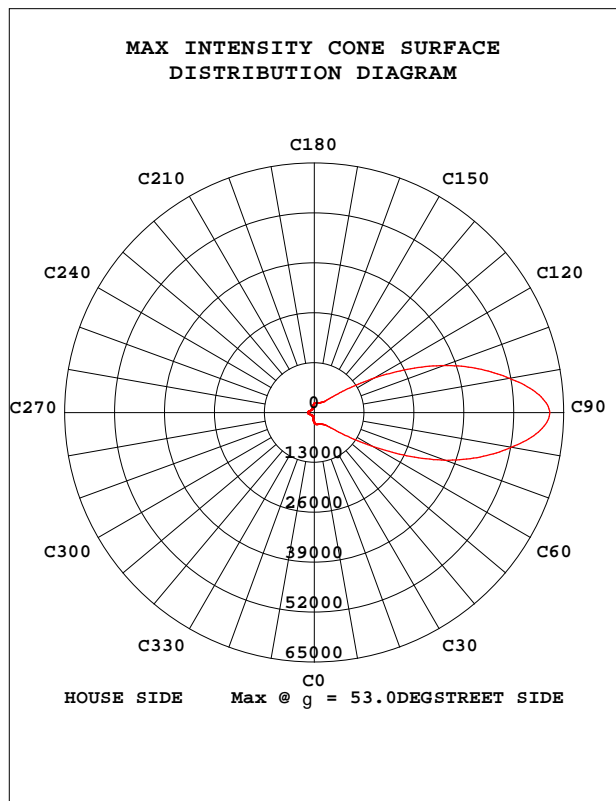
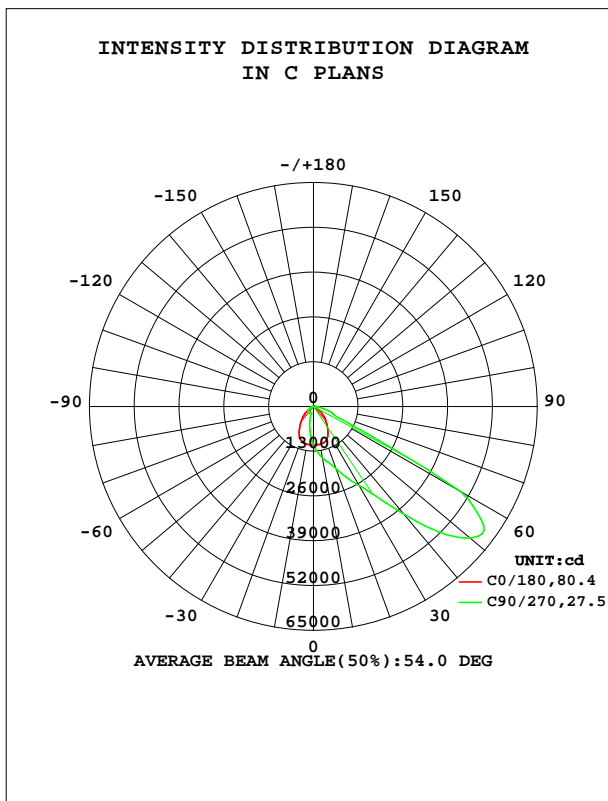


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:219.61V I:1.1155A P:242.19W PF:0.9886 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34558x1 lm		
NAME: ARST520D96LEDT3VS	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.66 lm/W			
MODEL	ARST520D96LEDT3VS	I <sub>max</sub> (cd)	61375	h street_up(%)	0.0
NOMINAL POWER(W)	250	LOR(%)	100.0	h street_down(%)	84.3
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	34551	h house_up(%)	0.0
NOMINAL FLUX(lm)	34558	MAXIMUM @(C,g )	90,53.0	h house_down(%)	15.7
LAMPS INSIDE	1	h up(%)	0.0	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220	h down(%)	100.0	SLI	20.821

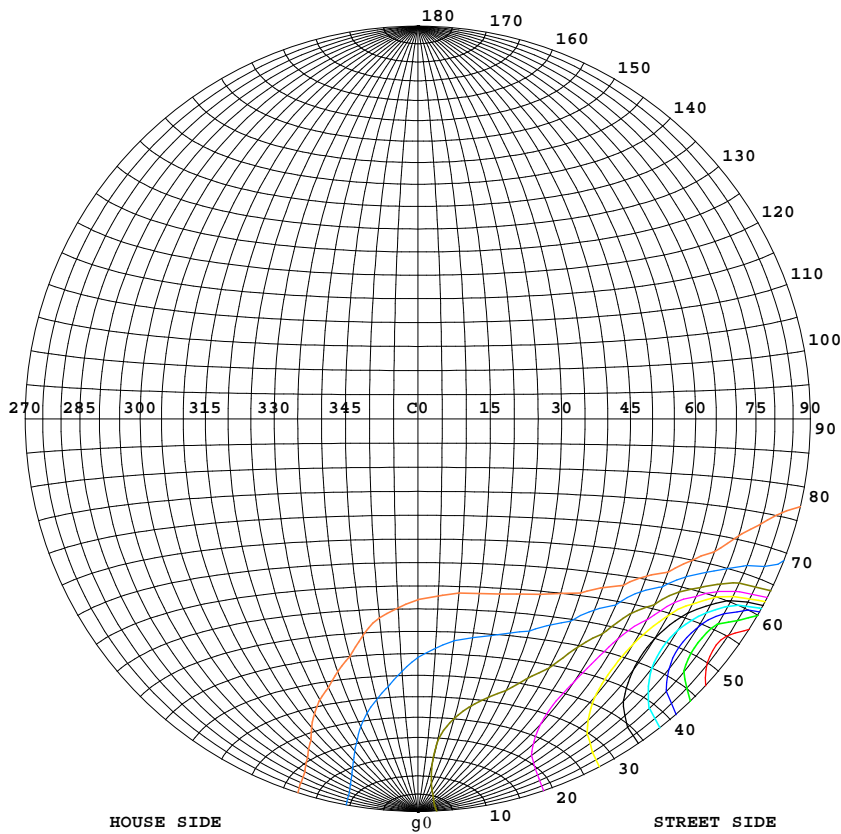


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Summer  
 Test Date:2022-01-04

g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity:65.0%  
 Test Distance:8.700m [K=1.0000]  
 Remarks: L288-5

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:219.61V I:1.1155A P:242.19W PF:0.9886 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34558x1 lm		
NAME: ARST520D96LEDT3VS	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A



Classification:

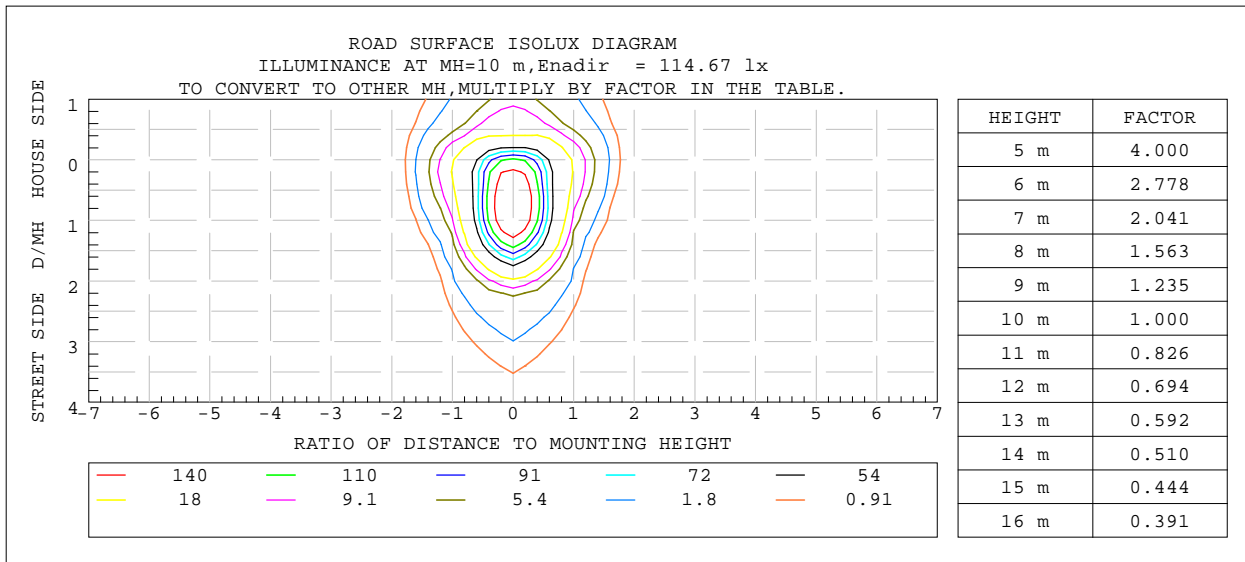
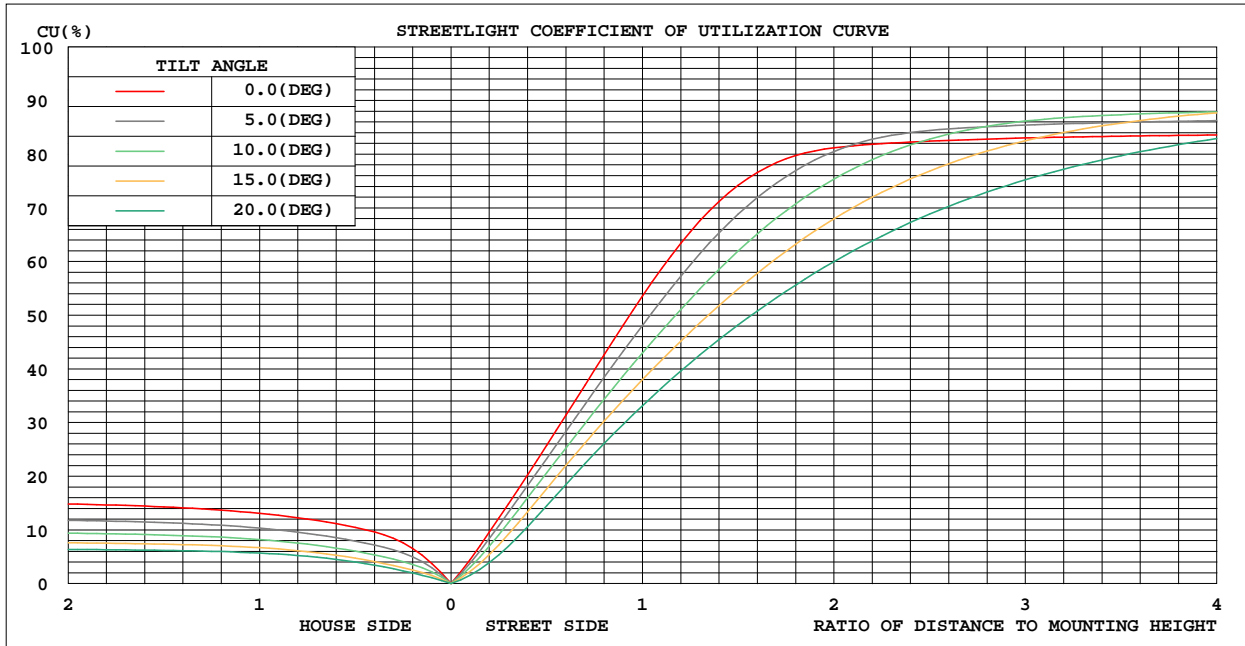
IES:Type III - Very Short  
 CIE:Broad - Short  
 IES:Full cut-off  
 CIE:Semi-cut-off  
 Max.At80:59.42cd/klm  
 Max.At90:0cd/klm  
 Max.80-90:59.42cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	61375
90%	55237
80%	49100
70%	42962
60%	36825
50%	30687
40%	24550
30%	18412
20%	12275
10%	6137
5%	3069

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Summer  
 Test Date:2022-01-04

g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity:65.0%  
 Test Distance:8.700m [K=1.0000]  
 Remarks: L288-5

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Summer  
Test Date: 2022-01-04

g Range: 0 - 90DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
Humidity: 65.0%  
Test Distance: 8.700m [K=1.0000]  
Remarks: L288-5

ZONAL FLUX DIAGRAM

Test:U:219.61V I:1.1155A P:242.19W PF:0.9886 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34558x1 lm		
NAME: ARST520D96LEDT3VS	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

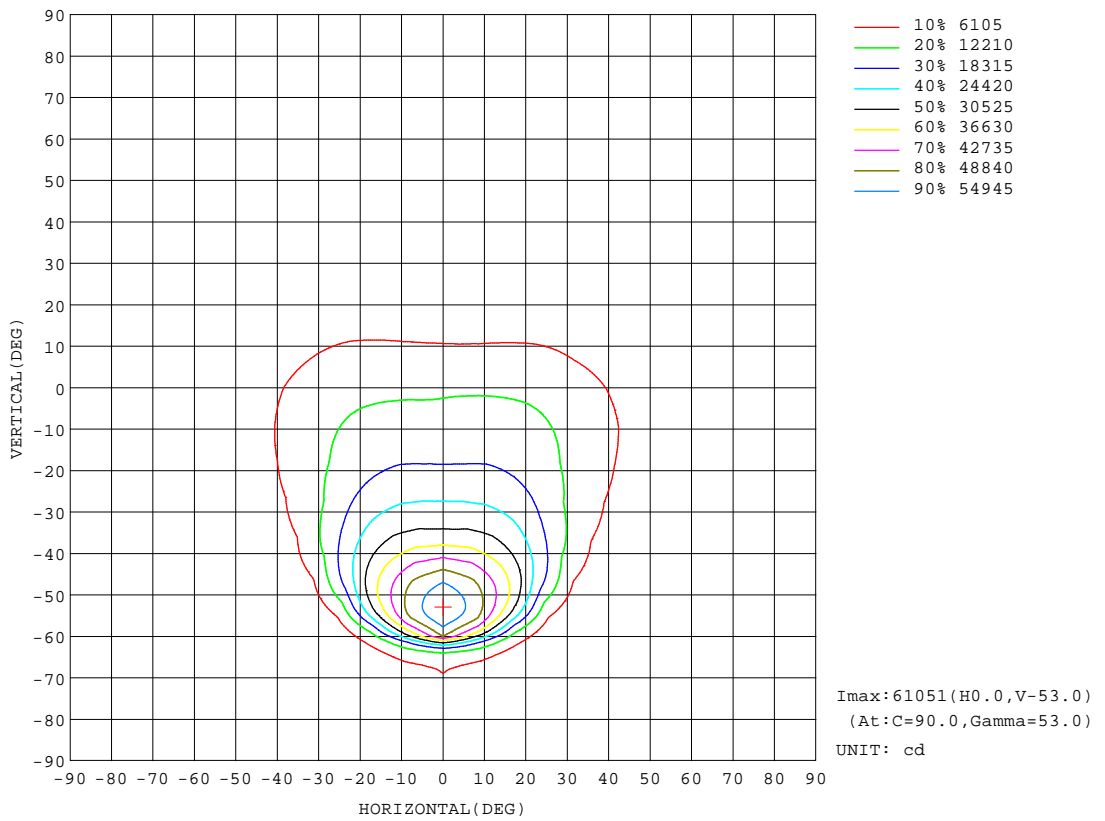
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1117	1400	1511	1406	1114	786.3	638.5	778.4	0- 10	1054	1054	3.05,3.05
20	1065	1610	1923	1627	1057	472.7	243.6	458.4	10- 20	3041	4095	11.9,11.8
30	854.1	1684	2650	1706	837.6	267.5	209.1	255.9	20- 30	4919	9014	26.1,26.1
40	576.2	1465	4079	1492	554.7	179.4	215.4	179.5	30- 40	6752	15766	45.6,45.6
50	349.0	804.7	5938	787.0	328.5	127.2	206.0	125.4	40- 50	8404	24170	70,69.9
60	75.17	173.2	4927	144.0	74.19	86.07	127.2	79.07	50- 60	7357	31526	91.2,91.2
70	47.20	55.88	600.1	54.51	46.63	52.19	71.63	48.60	60- 70	2019	33546	97.1,97.1
80	25.32	33.37	205.3	33.85	25.23	21.74	42.84	20.58	70- 80	731.2	34277	99.2,99.2
90	0	0	0	0	0	0	0	0	80- 90	273.9	34551	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:×10cd								UNIT:lm			

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Summer  
 Test Date:2022-01-04

g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity:65.0%  
 Test Distance:8.700m [K=1.0000]  
 Remarks: L288-5

ISOCANDELA DIAGRAM

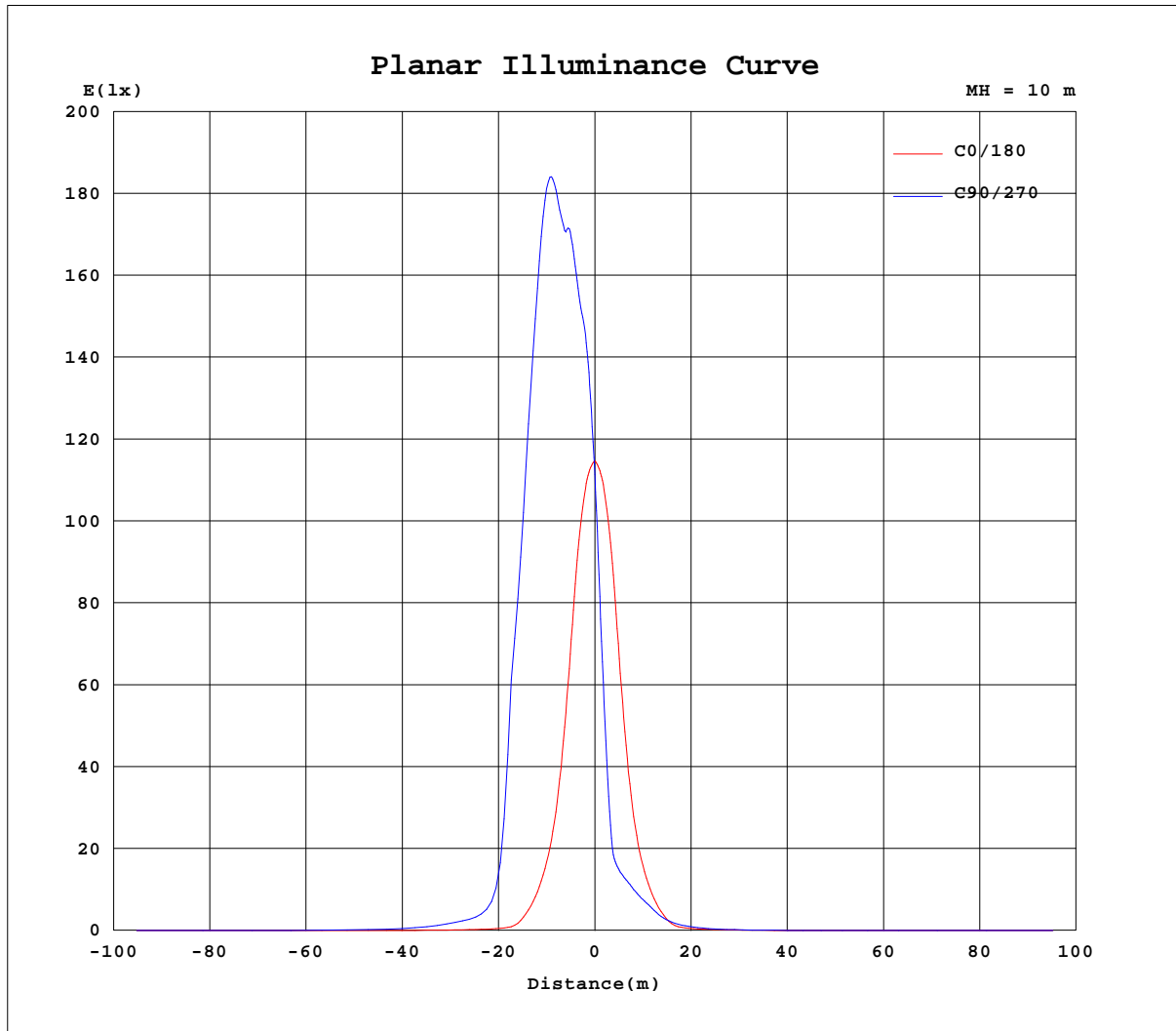
Test:U:219.61V I:1.1155A P:242.19W PF:0.9886 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34558x1 lm		
NAME: ARST520D96LEDT3VS	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Summer  
 Test Date:2022-01-04

g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity:65.0%  
 Test Distance:8.700m [K=1.0000]  
 Remarks: L288-5

Planar Illuminance Curve



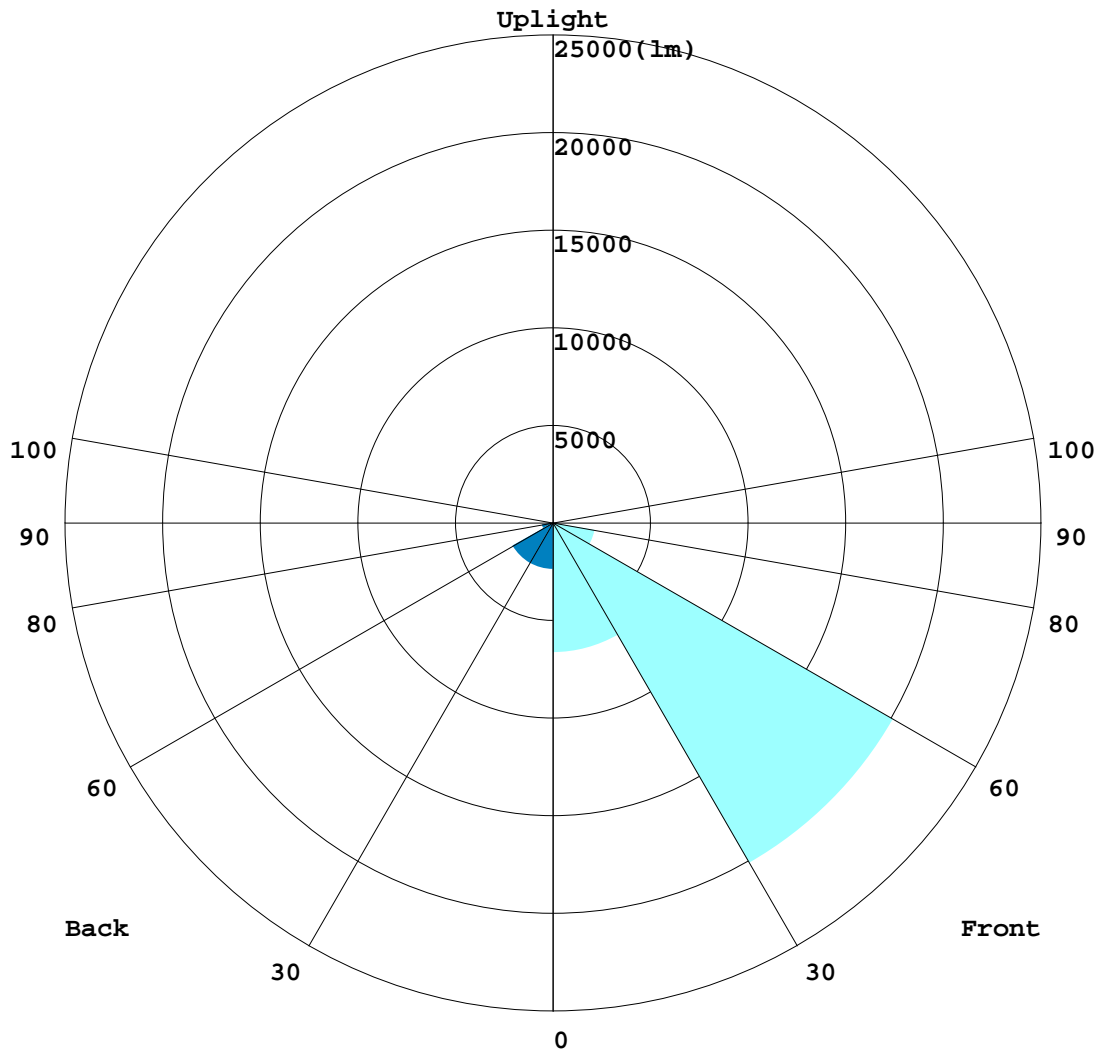
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Summer  
 Test Date: 2022-01-04

g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity: 65.0%  
 Test Distance: 8.700m [K=1.0000]  
 Remarks: L288-5

**LCS REPORT**

Test:U:219.61V I:1.1155A P:242.19W PF:0.9886 Freq:49.99Hz UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:34558x1 lm		
NAME: ARST520D96LEDT3VS	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

**LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH**



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Summer  
 Test Date:2022-01-04

g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity:65.0%  
 Test Distance:8.700m [K=1.0000]  
 Remarks: L288-5

**BUG REPORT**

Test:U:219.61V I:1.1155A P:242.19W PF:0.9886 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34558x1 lm		
NAME: ARST520D96LEDT3VS	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	6634.2	19.2
FM - Front-Medium(30-60)	20137	58.3
FH - Front-High(60-80)	2180.7	6.3
FVH - Front-Very High(80-90)	181.37	0.5
Total Forward Light	29133	84.3

BL - Back-Low(0-30)	2379.6	6.9
BM - Back-Medium(30-60)	2375.8	6.9
BH - Back-High(60-80)	569.88	1.6
BVH - Back-Very High(80-90)	92.523	0.3
Total Back Light	5417.8	15.7

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B3-U0-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5417.8	0	5417.8
Street Side	29133	0	29133

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Summer  
 Test Date:2022-01-04

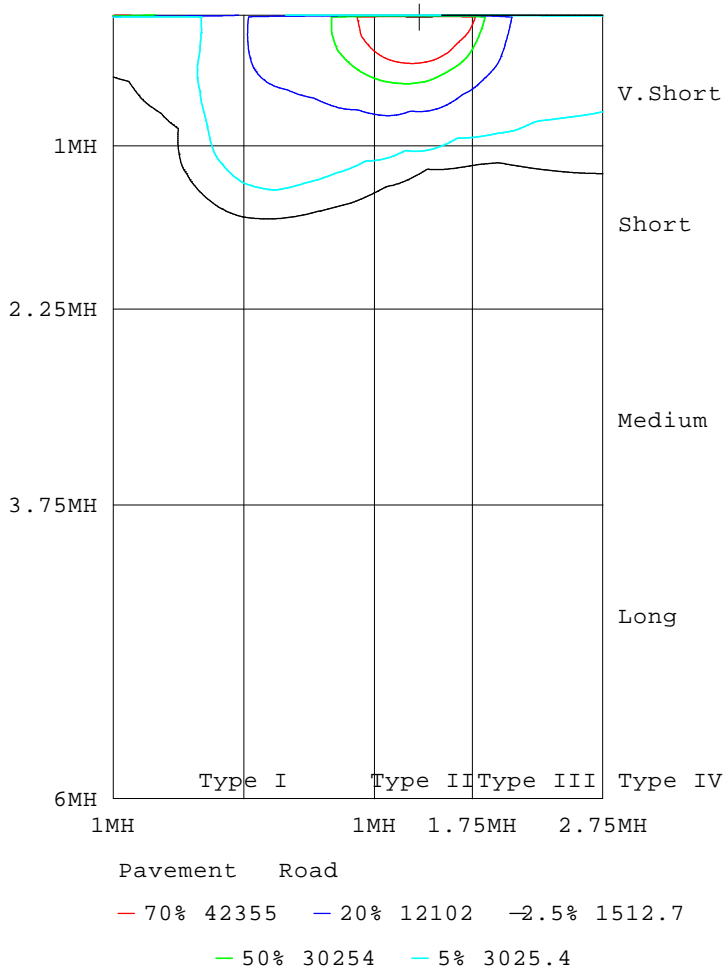
g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity:65.0%  
 Test Distance:8.700m [K=1.0000]  
 Remarks: L288-5



ROAD ISOCANDELA REPORT

Test:U:219.61V I:1.1155A P:242.19W PF:0.9886 Freq:49.99Hz UTHdi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34558x1 lm		
NAME: ARST520D96LEDT3VS	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Summer  
 Test Date:2022-01-04

g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity:65.0%  
 Test Distance:8.700m [K=1.0000]  
 Remarks: L288-5

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.61V I:1.1155A P:242.19W PF:0.9886 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34558x1 lm		
NAME: ARST520D96LEDT3VS	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.:	SUR.:	Shielding Angle: N/A

Table--1

UNIT: x10cd

C(DEG) g (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120
5	1118	1153	1187	1218	1246	1272	1291	1309	1318	1323	1319	1310	1294	1274	1248	1220	1187	1153	1116
10	1117	1188	1256	1320	1377	1424	1458	1485	1502	1511	1505	1492	1465	1430	1382	1324	1257	1188	1114
15	1102	1205	1303	1401	1487	1562	1616	1649	1673	1682	1680	1664	1632	1577	1498	1407	1307	1204	1096
20	1065	1196	1320	1441	1551	1669	1779	1857	1902	1923	1917	1879	1801	1689	1566	1450	1324	1195	1057
25	982	1136	1277	1418	1559	1771	1983	2139	2228	2263	2248	2173	2017	1792	1577	1425	1276	1127	969
30	854	1012	1160	1309	1512	1856	2191	2469	2616	2650	2640	2510	2235	1885	1527	1309	1148	996	838
35	711	853	979	1128	1397	1863	2390	2833	3116	3190	3138	2874	2438	1903	1403	1117	956	828	691
40	576	692	776	894	1174	1757	2525	3253	3831	4079	3861	3297	2582	1810	1173	873	743	661	555
45	463	547	592	662	875	1495	2536	3680	4644	5153	4656	3701	2590	1548	854	628	551	512	440
50	349	408	427	466	580	1030	2237	3849	5172	5938	5141	3834	2265	1037	537	422	380	364	329
55	217	255	257	278	323	535	1367	3261	5083	6036	5007	3251	1385	493	275	233	210	206	198
60	75.2	79.7	91.2	121	142	204	506	1437	3214	4927	3110	1433	500	173	115	95.7	76.5	71.0	74.2
65	55.9	56.5	56.9	63.7	72.9	87.3	168	435	765	954	788	445	161	81.7	69.7	62.4	57.5	57.8	55.2
70	47.2	50.3	52.0	49.9	52.1	59.7	97.6	229	417	600	410	223	94.6	57.6	51.4	50.2	52.9	51.2	46.6
75	37.6	41.8	43.2	40.7	39.9	42.5	55.6	131	251	404	246	128	54.5	42.2	40.2	41.5	44.9	42.9	37.1
80	25.3	27.2	29.3	31.9	34.3	32.5	32.3	67.2	134	205	130	65.5	32.5	33.0	34.8	32.8	30.4	28.3	25.2
85	14.8	24.1	23.2	22.7	25.4	26.2	19.9	36.0	66.4	95.1	64.6	34.6	20.7	27.0	26.0	23.3	24.1	24.0	14.9
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Summer  
 Test Date:2022-01-04

g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity:65.0%  
 Test Distance:8.700m [K=1.0000]  
 Remarks: L288-5

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.61V I:1.1155A P:242.19W PF:0.9886 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34558x1 lm		
NAME: ARST520D96LEDT3VS	TYPE: LED	WEIGHT: N/A
SPEC.: N/A	DIM.:	SERIAL No.: N/A
MFR.	SUR.:	Shielding Angle: N/A

Table--2

UNIT: x10cd

C(DEG) g (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120	1120		
5	1080	1044	1008	975	944	920	900	890	884	889	896	916	939	970	1004	1041	1079		
10	1041	967	890	818	754	704	666	647	639	645	663	698	746	811	884	962	1040		
15	990	879	767	668	582	512	456	426	412	422	449	502	572	659	759	874	990		
20	921	783	649	528	417	336	278	252	244	251	274	327	404	513	640	777	922		
25	816	670	528	399	294	227	215	212	212	214	219	228	277	382	514	666	820		
30	684	539	404	305	230	214	209	208	209	210	213	220	229	283	389	535	690		
35	549	416	302	228	206	208	208	211	214	213	211	214	215	211	285	410	558		
40	436	318	228	181	178	183	196	211	215	212	199	187	183	176	207	311	446		
45	354	245	174	149	155	155	177	206	216	207	179	155	155	151	154	240	366		
50	265	187	132	124	130	134	159	190	206	190	158	132	127	124	117	181	271		
55	159	117	97.6	102	107	114	135	155	165	152	130	109	100	98.8	91.4	111	161		
60	73.7	71.2	74.8	83.3	88.9	95.5	109	118	127	115	102	87.3	80.2	78.0	73.4	71.8	75.5		
65	56.7	60.6	62.6	68.4	70.4	74.5	87.3	91.6	99.5	91.0	84.1	71.1	64.3	63.0	61.7	61.6	59.2		
70	49.2	52.2	53.6	51.4	53.0	58.1	65.1	66.9	71.6	65.4	61.4	53.4	48.8	48.4	51.4	52.7	51.1		
75	39.1	42.0	40.2	38.5	35.0	38.9	44.8	49.9	54.2	49.1	42.5	36.2	32.8	35.7	38.3	41.6	40.4		
80	27.3	28.2	25.1	22.4	21.1	22.6	30.1	37.5	42.8	37.7	30.0	22.7	20.1	21.1	24.0	27.5	28.2		
85	17.7	15.7	12.9	12.1	11.9	13.0	17.7	24.9	31.6	24.8	17.9	14.0	12.8	12.4	13.7	16.0	18.2		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Summer  
 Test Date:2022-01-04

g Range: 0 - 90DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.445  
 Humidity:65.0%  
 Test Distance:8.700m [K=1.0000]  
 Remarks: L288-5