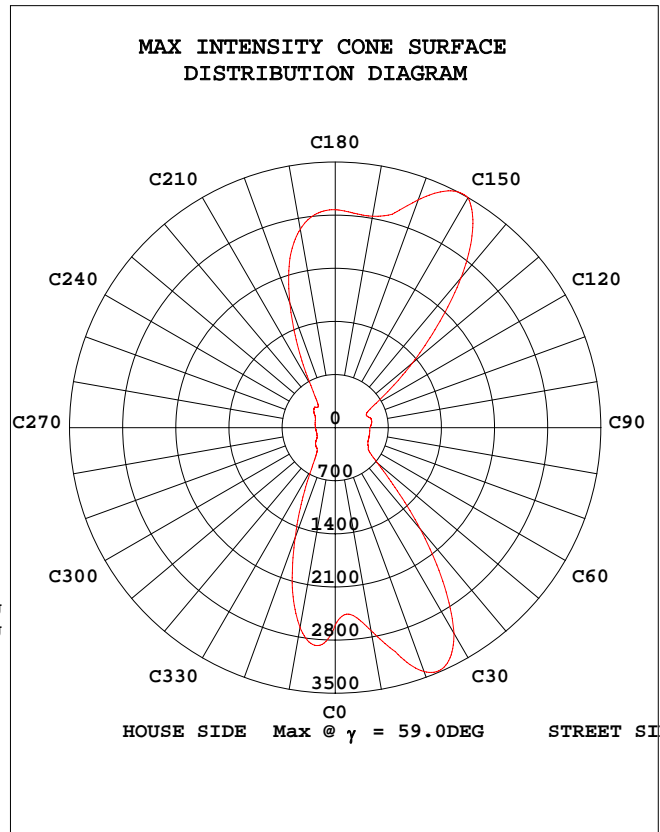
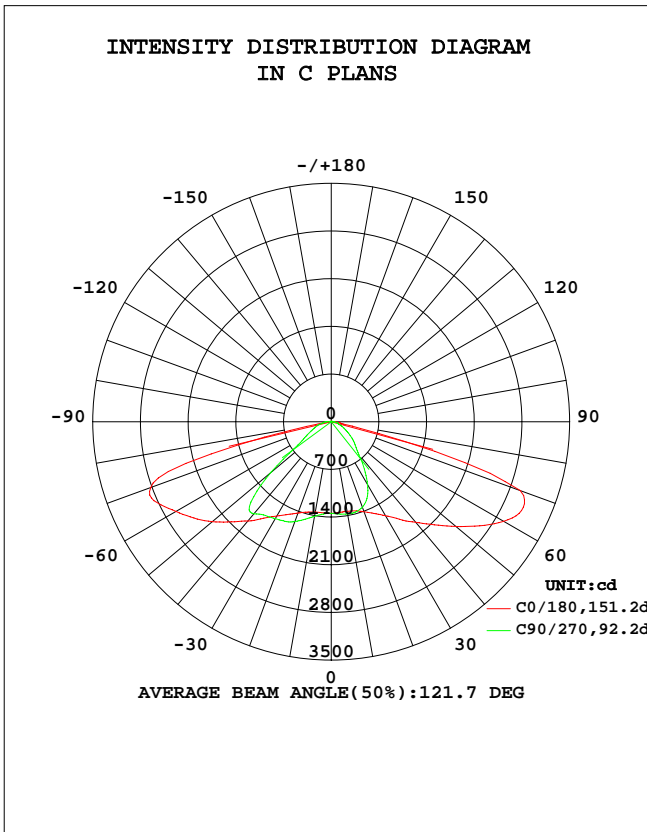


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:221.0V I:0.2920A P:61.30W PF:0.9480 Lamp Flux:6608.38x1 lm		
NAME: LED STREET LIGHT	TYPE:IP66	WEIGHT:3
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 107.80 lm/W			
MODEL	QH-STL-LD60S-60W	I _{max} (cd)	3500	η street_up(%)	0.7
NOMINAL POWER(W)	62	LOR(%)	100.0	η street_down(%)	61.1
RATED VOLTAGE(V)	222	TOTAL FLUX(lm)	6608	η house_up(%)	0.5
NOMINAL FLUX(lm)	6608.38	MAXIMUM @(C,γ)	150,59.0	η house_down(%)	37.7
LAMPS INSIDE	1	η up(%)	1.2	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	221.1	η down(%)	98.8	SLI	18.779

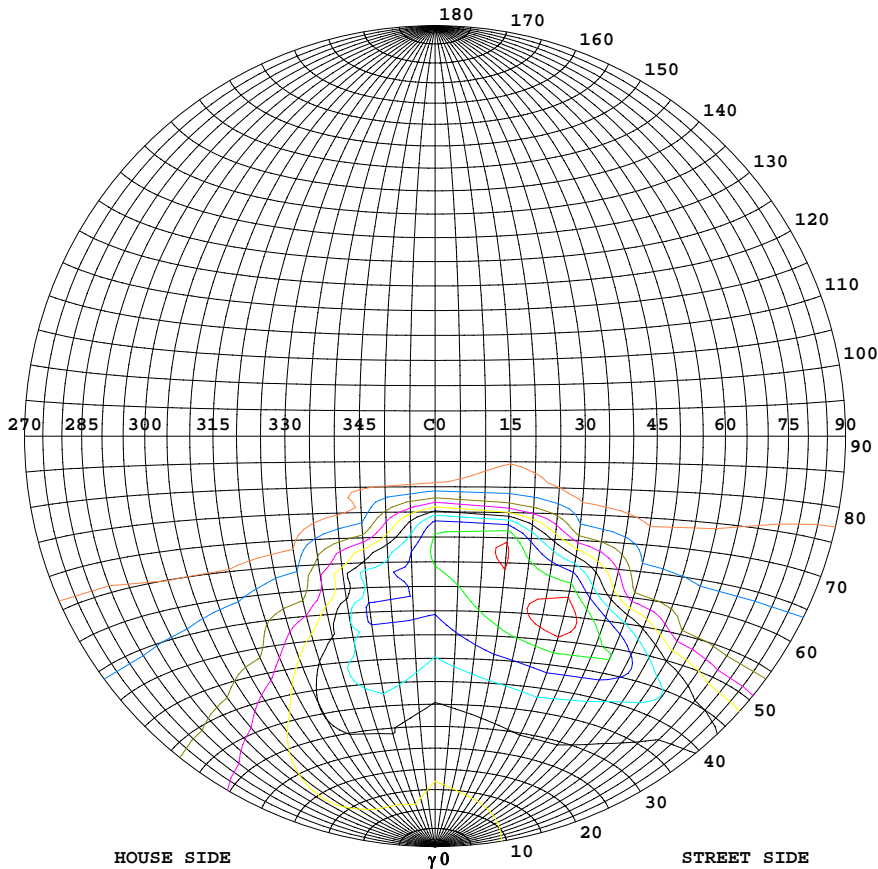


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2015-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:90.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: CREE XTE

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:221.0V I:0.2920A P:61.30W PF:0.9480 Lamp Flux:6608.38x1 lm		
NAME: LED STREET LIGHT	TYPE:IP66	WEIGHT:3
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



Classification:

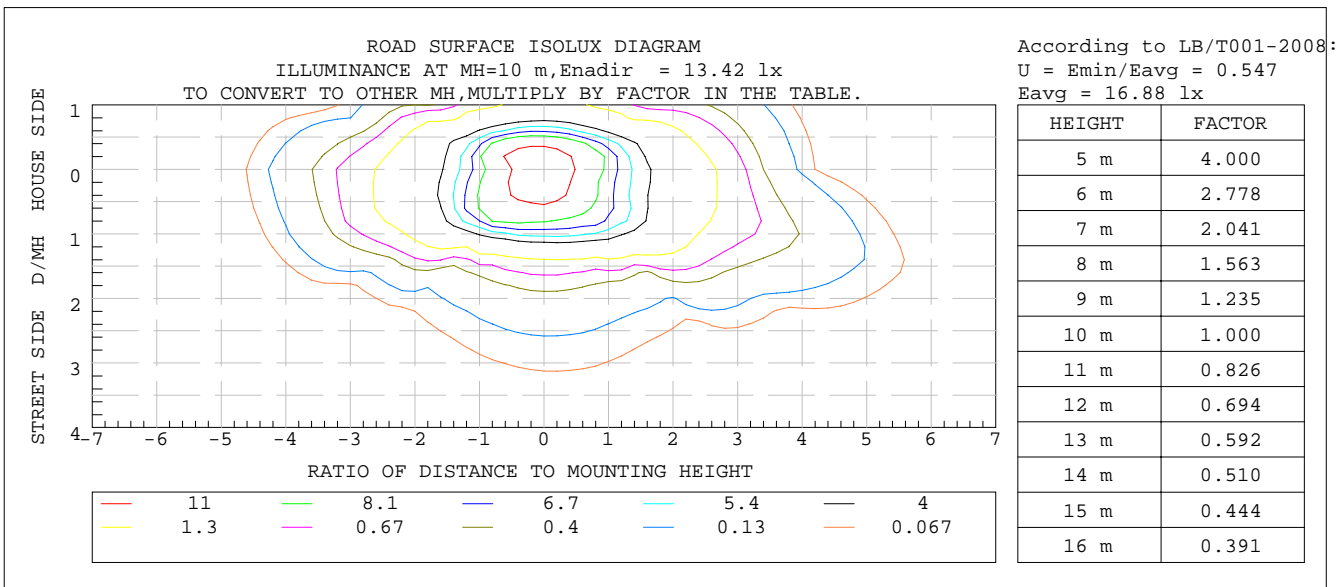
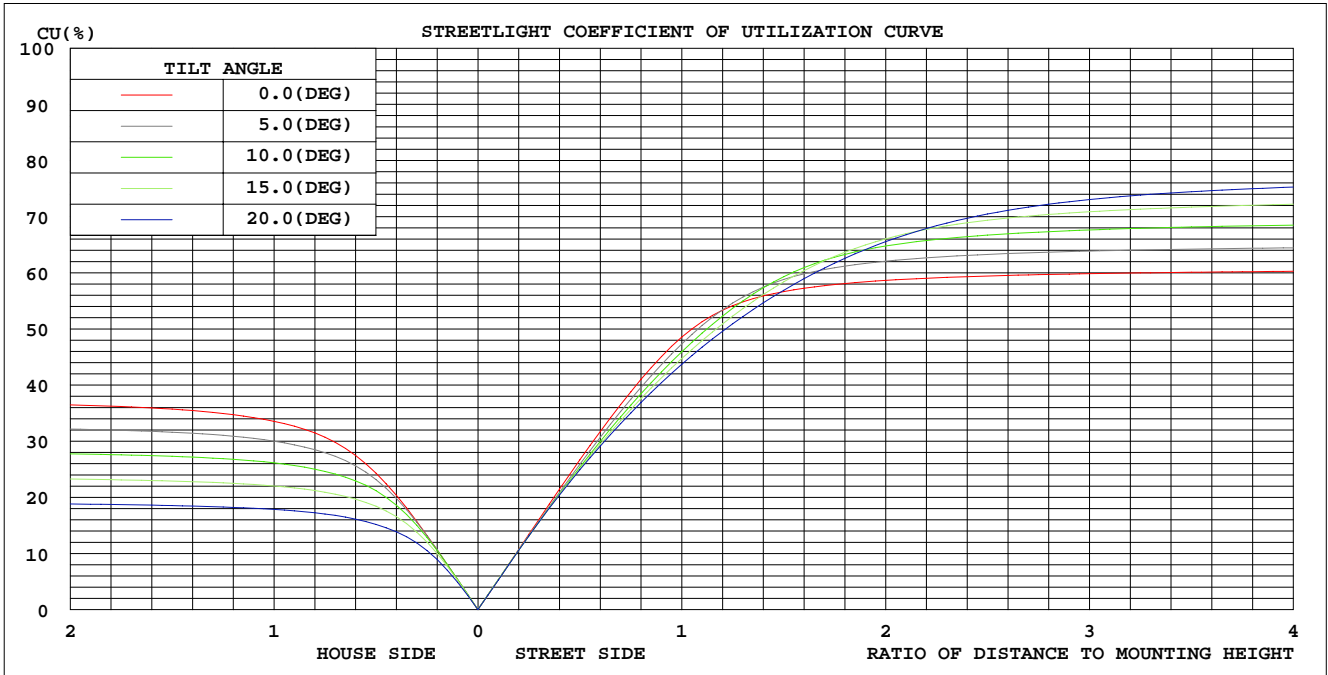
IES:Type II - Short
 CIE:Narrow - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:224.0cd/klm
 Max.At90:27.88cd/klm
 Max.80-90:224.0cd/klm
 NRB 5101:Non limited[47.7%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3500
90%	3150
80%	2800
70%	2450
60%	2100
50%	1750
40%	1400
30%	1050
20%	700
10%	350
5%	175

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2015-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:90.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: CREE XTE

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 28DEG
Operators:
Test Date: 2015-08-13

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
Humidity: 90.0%
Test Distance: 8.000m [K=1.0000]
Remarks: CREE XTE

ZONAL FLUX DIAGRAM

Test:U:221.0V I:0.2920A P:61.30W PF:0.9480 Lamp Flux:6608.38x1 lm		
NAME: LED STREET LIGHT	TYPE:IP66	WEIGHT:3
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:

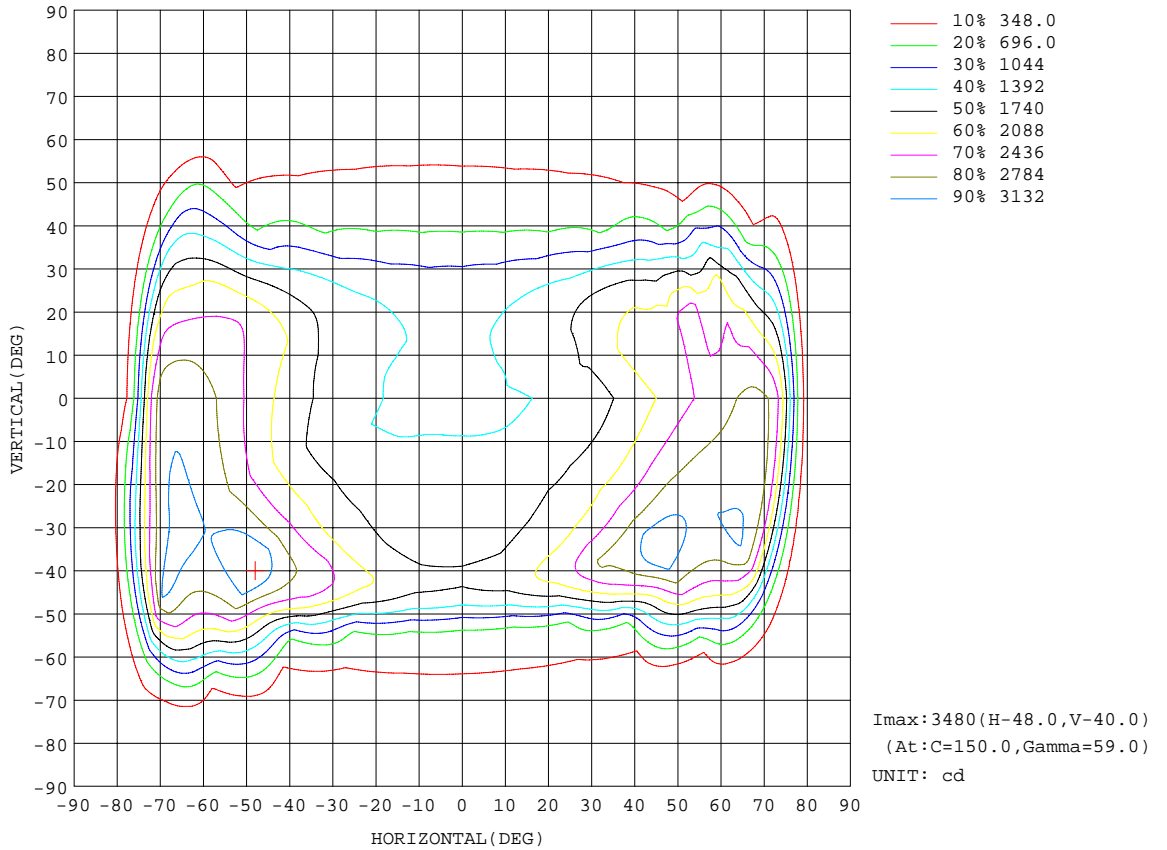
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1347	1381	1411	1384	1336	1361	1375	1384	0- 10	129.9	129.9	1.97,1.97
20	1427	1521	1558	1462	1406	1396	1335	1475	10- 20	400.6	530.5	8.03,8.03
30	1598	1767	1643	1628	1593	1408	1067	1557	20- 30	693.5	1224	18.5,18.5
40	1902	2152	1764	1922	1927	1127	635.1	1251	30- 40	990.3	2214	33.5,33.5
50	2282	2724	1154	2680	2392	596.3	420.5	586.4	40- 50	1287	3501	53,53
60	2633	874.5	430.8	1674	2922	363.2	248.8	324.4	50- 60	1316	4817	72.9,72.9
70	2819	232.5	261.1	332.8	2950	161.2	137.2	113.8	60- 70	1071	5888	89.1,89.1
80	232.7	107.8	137.4	147.3	157.9	91.62	84.03	72.06	70- 80	532.5	6420	97.2,97.2
90	38.72	53.99	44.18	75.52	24.43	19.59	0.9234	15.03	80- 90	109.5	6530	98.8,98.8
100	20.05	14.14	6.449	19.47	23.87	12.93	2.129	10.21	90-100	30.23	6560	99.3,99.3
110	15.68	5.982	1.832	8.469	13.64	8.325	3.778	8.758	100-110	12.08	6572	99.4,99.4
120	12.62	5.392	3.363	6.474	12.41	9.143	8.472	9.249	110-120	8.078	6580	99.6,99.6
130	11.91	6.222	7.014	7.189	11.73	9.575	10.96	10.27	120-130	7.723	6588	99.7,99.7
140	10.94	7.056	9.432	7.815	10.77	9.111	12.70	10.50	130-140	7.110	6595	99.8,99.8
150	9.752	7.536	10.02	8.227	9.714	9.265	11.15	9.850	140-150	5.865	6601	99.9,99.9
160	8.862	7.972	9.393	7.770	9.073	9.420	10.13	9.527	150-160	4.269	6605	99.9,99.9
170	8.602	8.525	8.743	8.534	8.992	8.936	9.330	9.106	160-170	2.553	6608	100,100
180	8.724	8.618	8.707	9.151	8.785	8.667	8.833	9.085	170-180	0.8547	6608	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:
 Test Date:2015-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity:90.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: CREE XTE

ISOCANDELA DIAGRAM

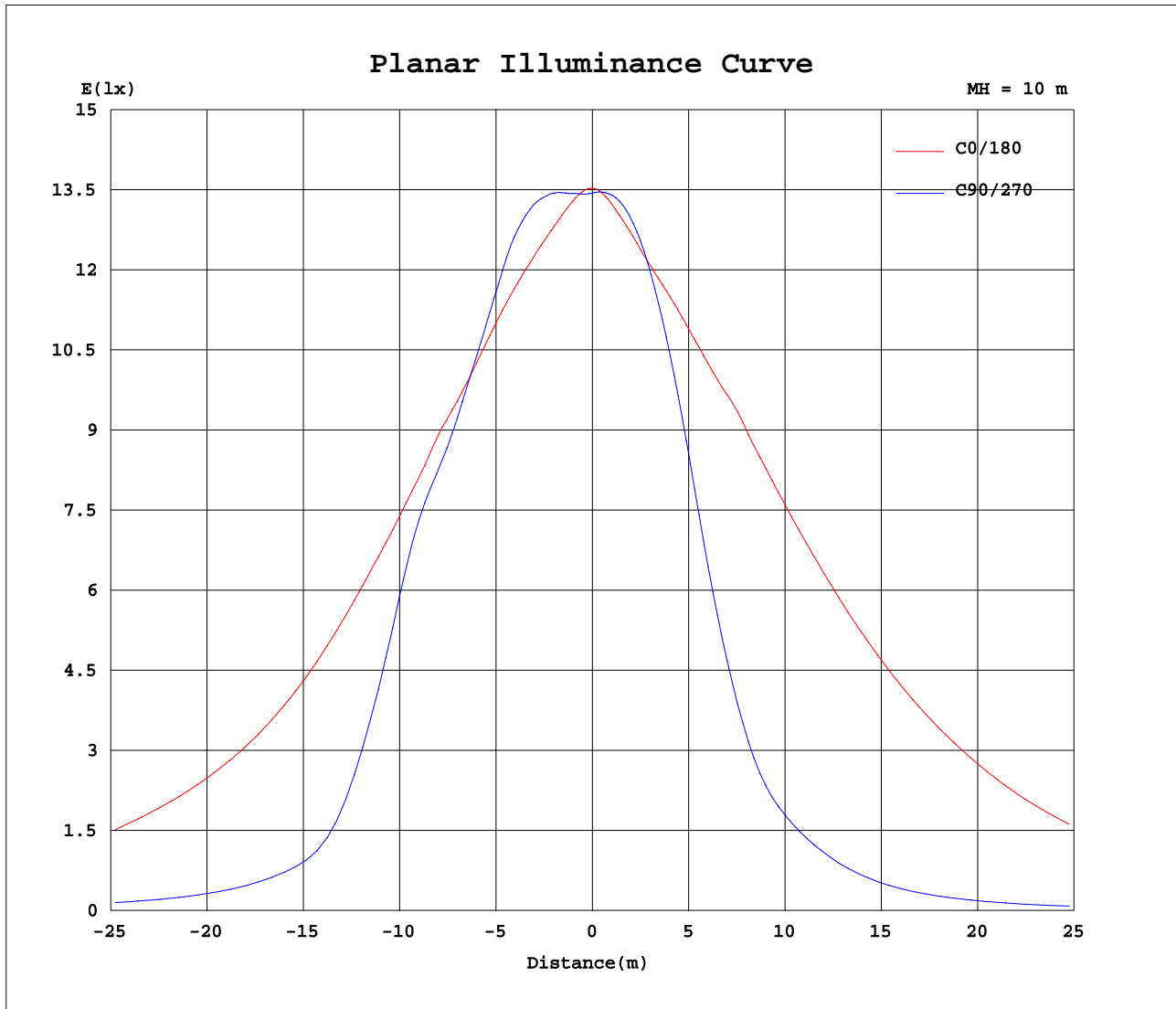
Test:U:221.0V I:0.2920A P:61.30W PF:0.9480 Lamp Flux:6608.38x1 lm		
NAME: LED STREET LIGHT	TYPE:IP66	WEIGHT:3
SPEC.:CREE XTE	DIM.:	SERIAL No.:
MFR.: QINHAN LIGHTING	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 28DEG
 Operators:
 Test Date: 2015-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity: 90.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks: CREE XTE

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 28DEG
 Operators:
 Test Date: 2015-08-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.279
 Humidity: 90.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks: CREE XTE