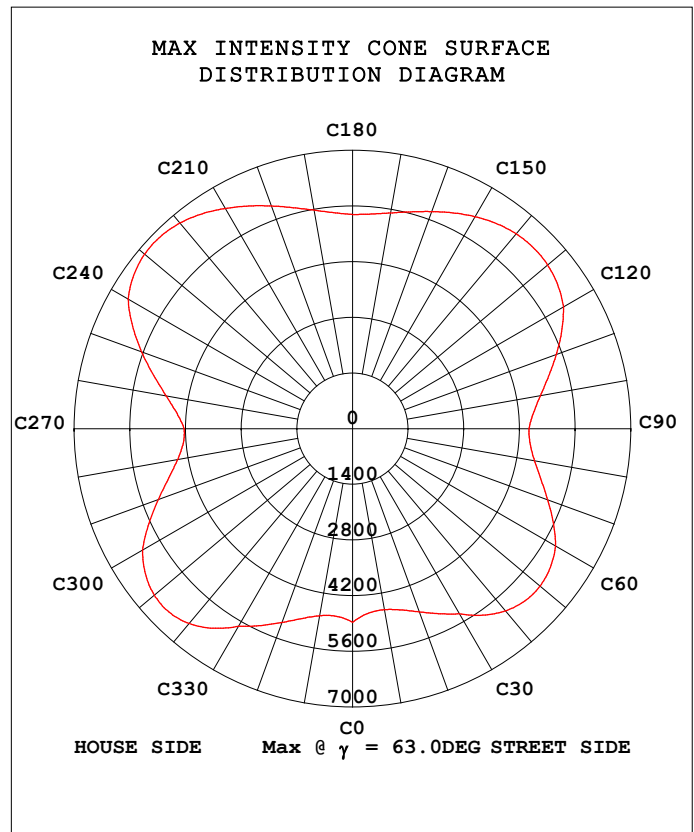
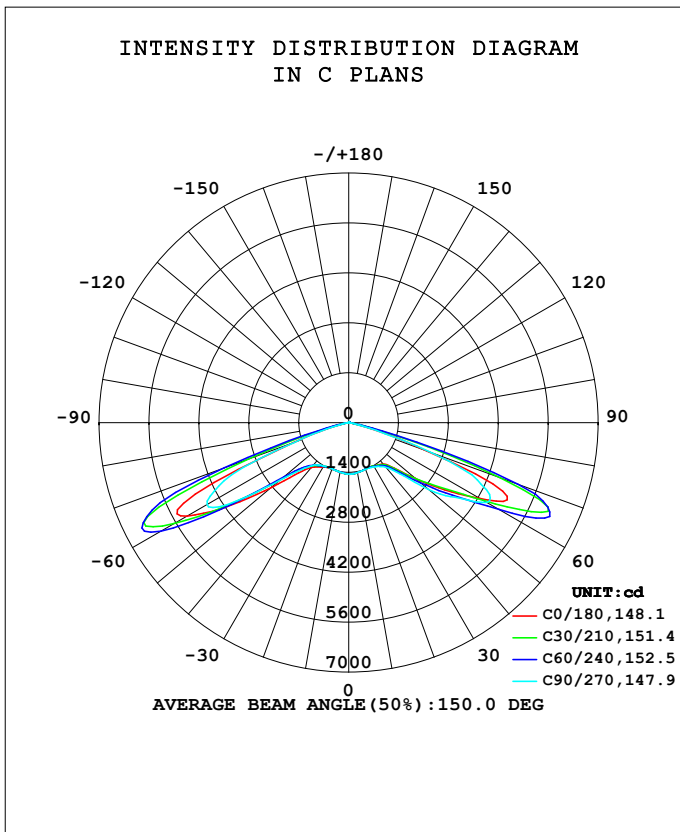


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.31V I:0.4340A P:97.815W PF:0.9786 Freq:49.99Hz Lamp Flux:13409.3x1 lm		
NAME: LORENZO-225101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 137.09 lm/W
MODEL	225101	I _{max} (cd)	6516	η street_up (%)	0.3	
NOMINAL POWER (W)	100	LOR (%)	100.0	η street_down (%)	50.5	
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	13409	η house_up (%)	0.3	
NOMINAL FLUX (lm)	13409.3	MAXIMUM @ (C, γ)	240,63.0	η house_down (%)	48.9	
LAMPS INSIDE	1	η up (%)	0.6	76 FLASHAREA (m2)	0.05000	
TEST VOLTAGE (V)	230	η down (%)	99.4	SLI	20.003	

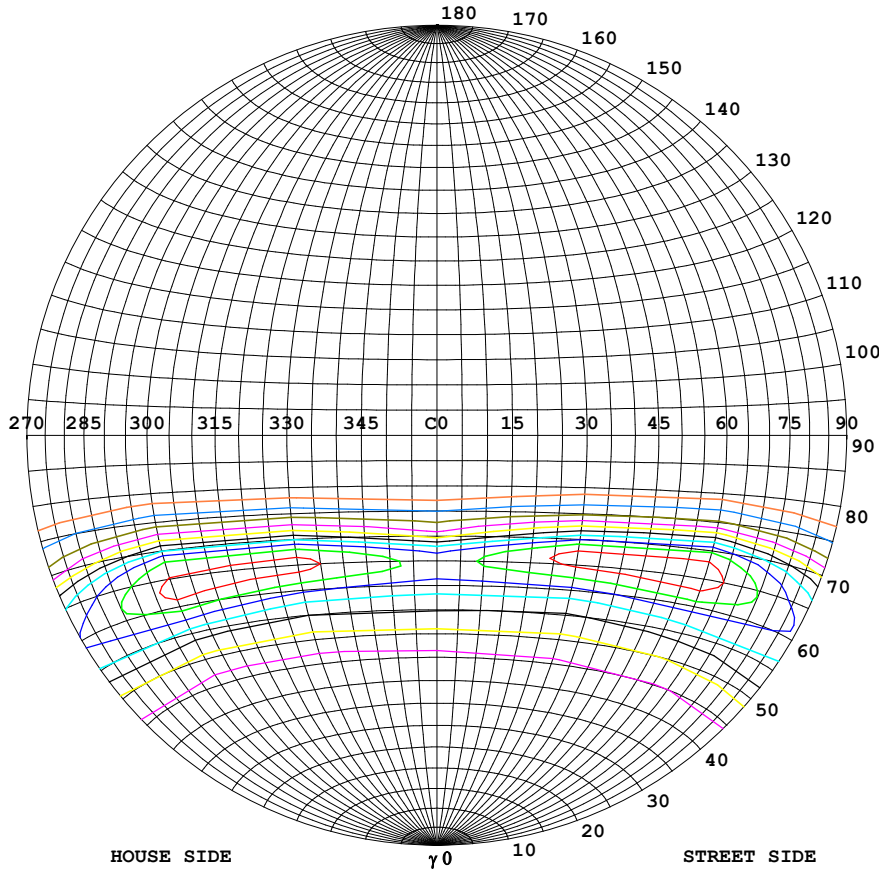


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 9.345m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.31V I:0.4340A P:97.815W PF:0.9786 Freq:49.99Hz Lamp Flux:13409.3x1 lm		
NAME: LORENZO-225101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



Classification:

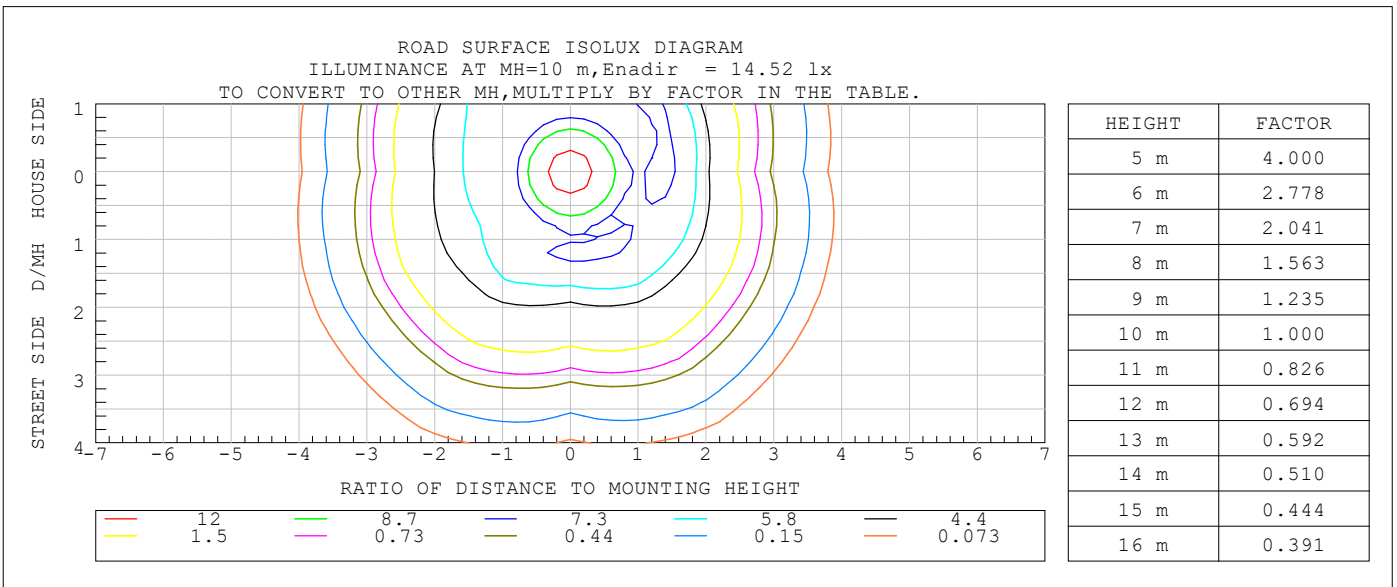
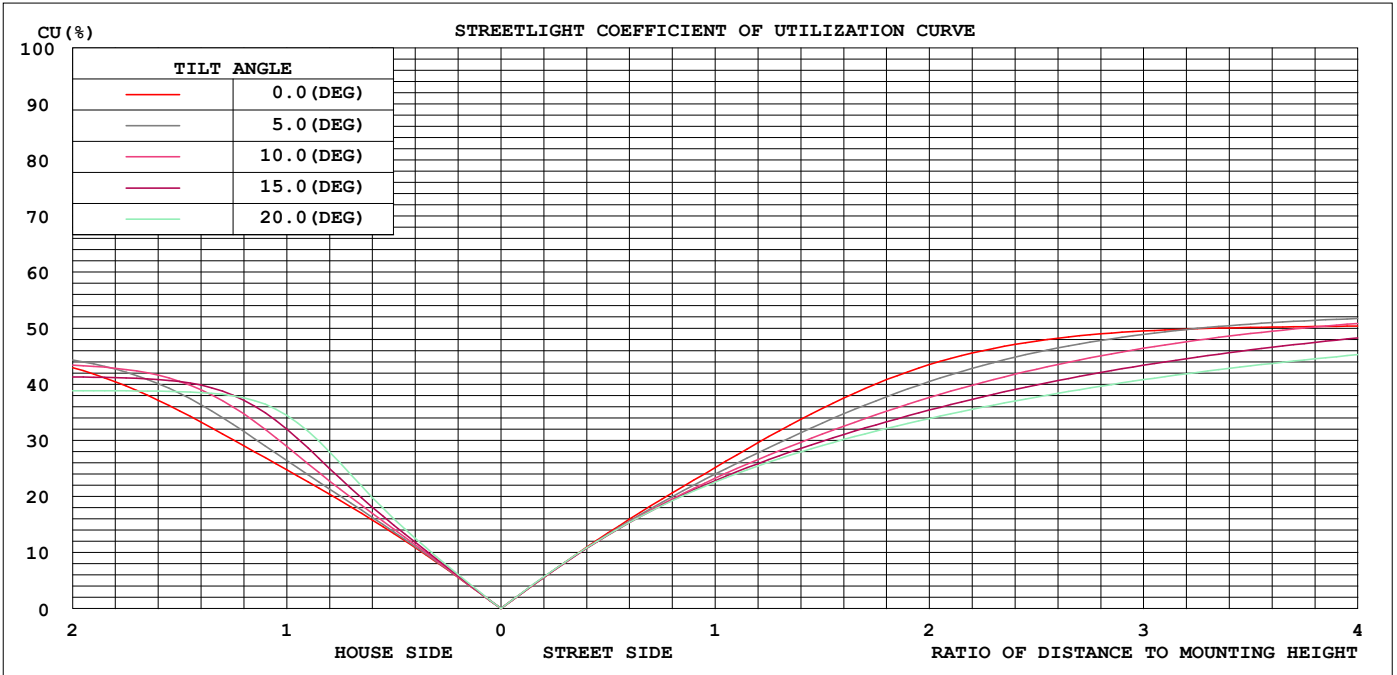
IES:Type VS - Very Short
 CIE:Broad - Intermediate
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:15.66cd/klm
 Max.At90:0.7267cd/klm
 Max.80-90:15.66cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6516
— 90%	5865
— 80%	5213
— 70%	4561
— 60%	3910
— 50%	3258
— 40%	2606
— 30%	1955
— 20%	1303
— 10%	652
— 5%	326

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

**COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM**



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: ADMIN
Test Date: 2023-07-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 9.345m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:230.31V I:0.4340A P:97.815W PF:0.9786 Freq:49.99Hz Lamp Flux:13409.3x1 lm		
NAME: LORENZO-225101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

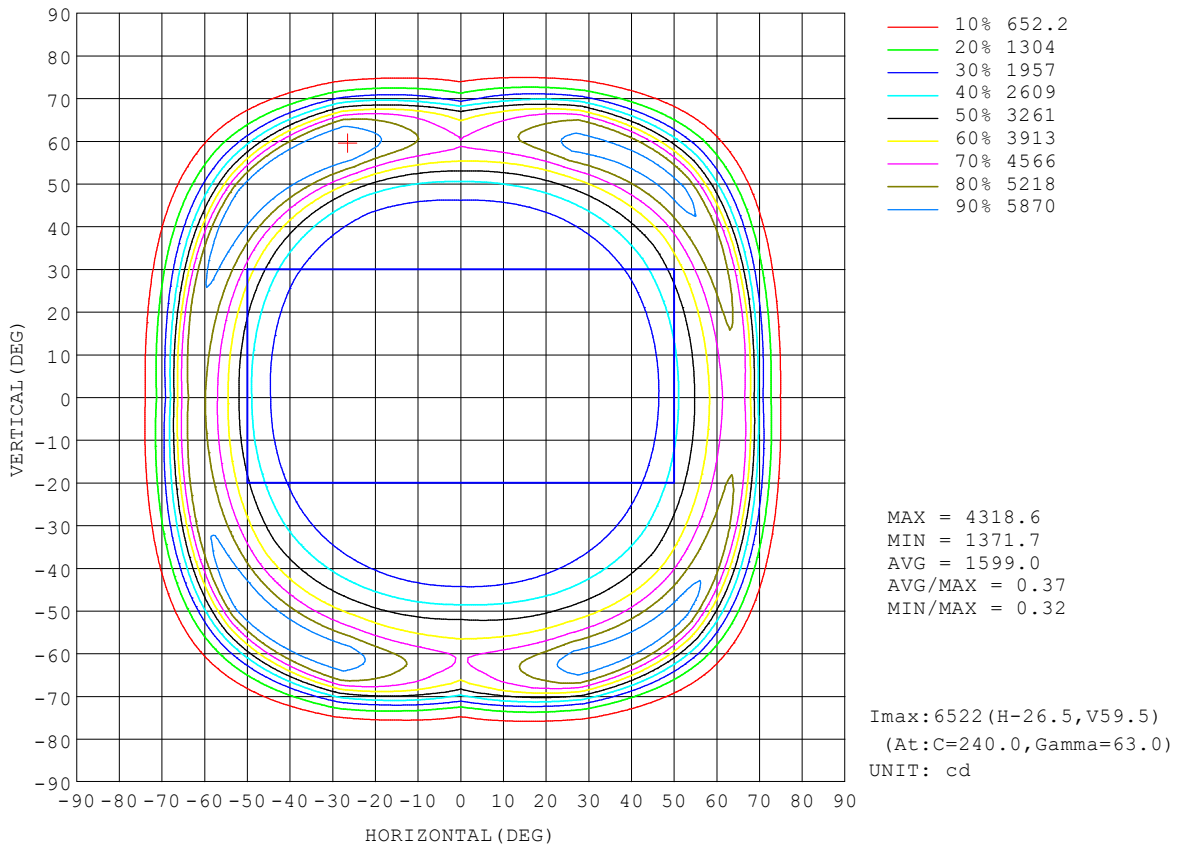
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1429	1426	1425	1420	1418	1408	1413	1416	0- 10	136.8	136.8	1.02,1.02
20	1393	1382	1395	1386	1385	1374	1384	1381	10- 20	396.4	533.2	3.98,3.98
30	1410	1415	1436	1444	1446	1421	1413	1409	20- 30	644.7	1178	8.78,8.78
40	1525	1565	1646	1647	1652	1575	1573	1533	30- 40	937.3	2115	15.8,15.8
50	2440	2530	2907	2779	2823	2433	2493	2389	40- 50	1524	3639	27.1,27.1
60	4262	4629	4473	5276	5243	5878	4585	5109	50- 60	3354	6993	52.2,52.2
70	2345	4782	2481	4239	1625	3339	1631	3866	60- 70	5039	12032	89.7,89.7
80	93.18	196.4	79.50	154.2	66.82	130.4	74.90	150.9	70- 80	1270	13302	99.2,99.2
90	7.040	8.053	6.604	8.095	8.439	9.579	8.263	9.531	80- 90	27.68	13330	99.4,99.4
100	12.07	12.75	11.43	12.51	12.75	13.87	13.00	14.08	90-100	11.59	13341	99.5,99.5
110	15.92	16.12	15.08	15.56	15.69	16.40	16.24	17.00	100-110	15.62	13357	99.6,99.6
120	16.24	15.98	15.50	15.35	15.27	15.82	16.10	16.51	110-120	16.05	13373	99.7,99.7
130	14.09	14.23	13.51	13.60	12.74	13.44	13.55	14.21	120-130	13.36	13386	99.8,99.8
140	12.35	12.49	11.70	11.92	10.35	10.75	11.04	11.36	130-140	9.871	13396	99.9,99.9
150	9.560	9.251	9.156	9.059	8.551	8.734	9.015	8.967	140-150	6.438	13402	99.9,99.9
160	8.162	8.027	7.981	7.950	7.787	7.866	7.942	7.941	150-160	3.887	13406	100,100
170	7.832	7.782	7.754	7.728	7.678	7.701	7.725	7.708	160-170	2.222	13409	100,100
180	7.708	7.701	7.700	7.673	7.708	7.696	7.690	7.669	170-180	0.7357	13409	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

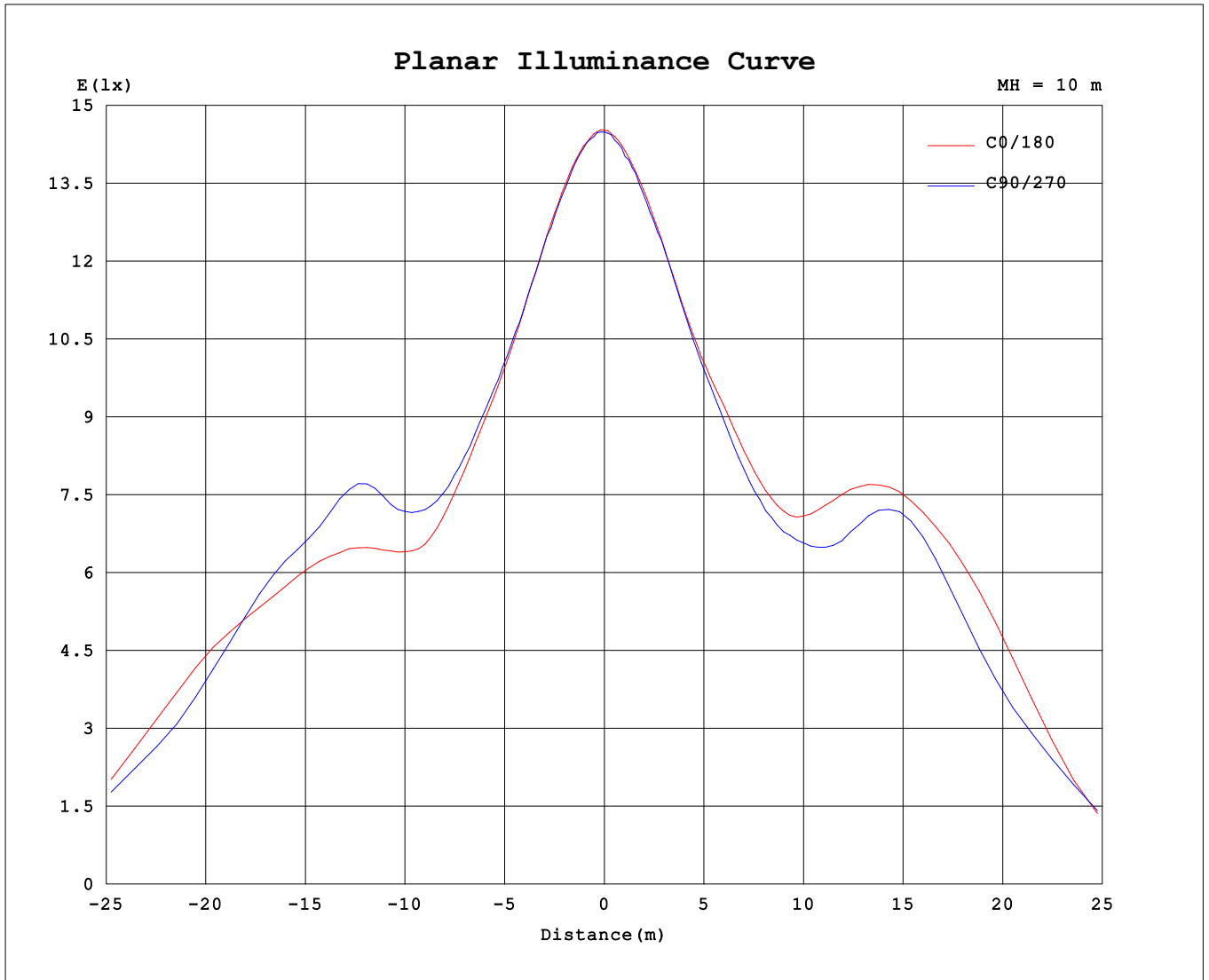
Test:U:230.31V I:0.4340A P:97.815W PF:0.9786 Freq:49.99Hz Lamp Flux:13409.3x1 lm		
NAME: LORENZO-225101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 9.345m [K=1.0000]
 Remarks:

Planar Illuminance Curve



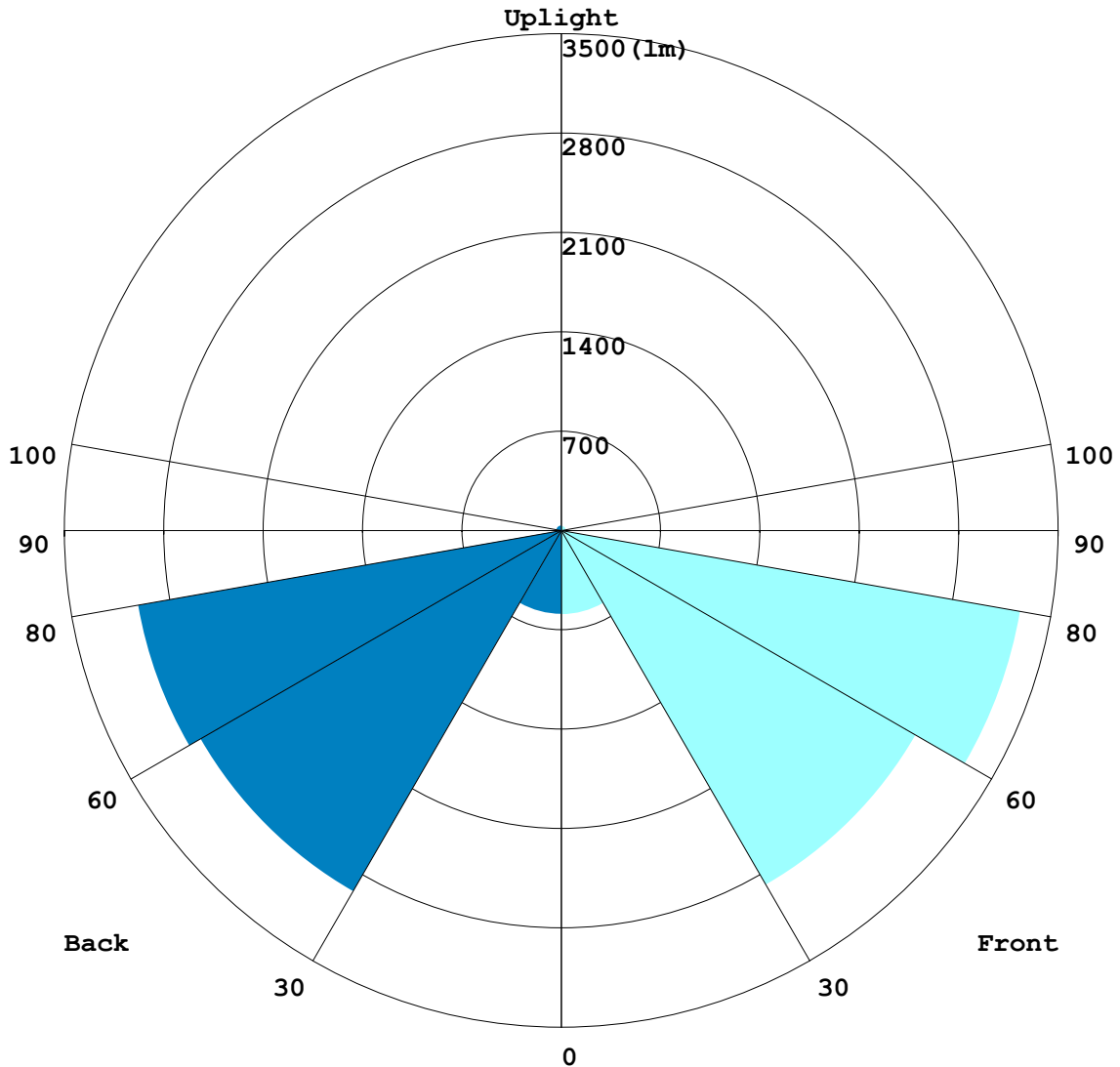
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 9.345m [K=1.0000]
 Remarks:

LCS REPORT

Test:U:230.31V I:0.4340A P:97.815W PF:0.9786 Freq:49.99Hz		
Lamp Flux:13409.3x1 lm		
NAME: LORENZO-225101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

BUG REPORT

Test:U:230.31V I:0.4340A P:97.815W PF:0.9786 Freq:49.99Hz Lamp Flux:13409.3x1 lm		
NAME: LORENZO-225101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	590.76	4.4
FM - Front-Medium(30-60)	2880.5	21.5
FH - Front-High(60-80)	3281.2	24.5
FVH - Front-Very High(80-90)	15.319	0.1
Total Forward Light	6807.2	50.8

BL - Back-Low(0-30)	587.17	4.4
BM - Back-Medium(30-60)	2934.8	21.9
BH - Back-High(60-80)	3027.4	22.6
BVH - Back-Very High(80-90)	12.357	0.1
Total Back Light	6602.1	49.2

UL - Uplight-Low(90-100)	11.588	0.1
UH - Uplight-High(100-180)	68.184	0.5
Total Up Light	79.772	0.6

BUG(Back,Up,Glare) Rating	B4-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6561.7	40.341	6602.1
Street Side	6767.8	39.431	6807.2

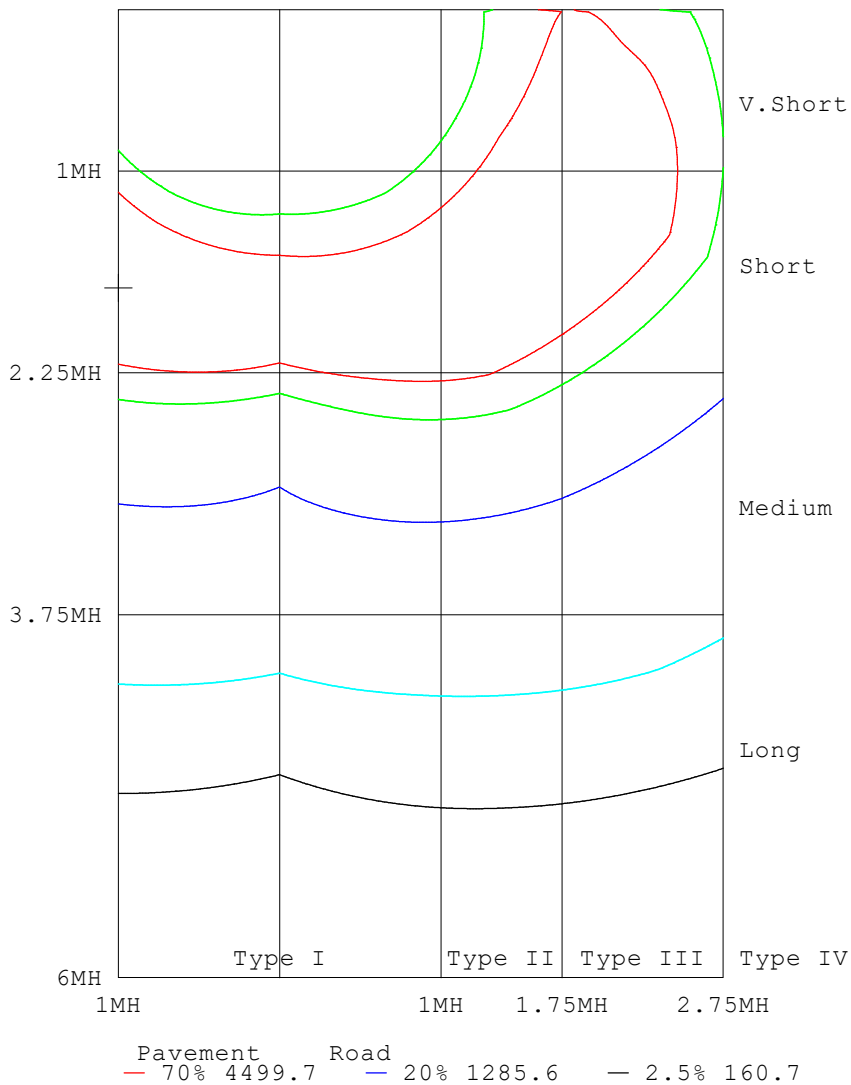
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:230.31V I:0.4340A P:97.815W PF:0.9786 Freq:49.99Hz Lamp Flux:13409.3x1 lm		
NAME: LORENZO-225101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.31V I:0.4340A P:97.815W PF:0.9786 Freq:49.99Hz Lamp Flux:13409.3x1 lm		
NAME: LORENZO-225101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450							
5	1443	1447	1444	1446	1443	1440	1438	1436	1431	1436	1435	1439							
10	1429	1429	1424	1425	1420	1420	1418	1410	1407	1413	1414	1418							
15	1411	1405	1403	1404	1405	1399	1401	1390	1393	1395	1397	1397							
20	1393	1385	1380	1395	1390	1382	1385	1372	1376	1384	1382	1379							
25	1385	1375	1385	1400	1399	1389	1395	1377	1376	1383	1379	1377							
30	1410	1406	1423	1436	1448	1440	1446	1422	1420	1413	1411	1407							
35	1453	1460	1480	1503	1523	1523	1519	1484	1475	1458	1456	1450							
40	1525	1545	1586	1646	1646	1647	1652	1585	1565	1573	1543	1524							
45	1809	1839	1935	2033	2028	1999	2004	1822	1765	1861	1781	1750							
50	2440	2435	2625	2907	2821	2736	2823	2497	2368	2493	2428	2349							
55	3295	3187	3545	3656	3872	3716	4051	3880	3963	3831	3659	3265							
60	4262	4378	4880	4473	5304	5247	5243	5664	6093	4585	5513	4705							
65	4902	5966	6224	4102	6185	6350	4747	6228	6252	3871	5913	6063							
70	2345	4522	5043	2481	4730	3748	1625	2962	3716	1631	3890	3841							
75	630	1184	1398	610	1321	915	470	739	910	492	973	970							
80	93.2	183	210	79.5	173	135	66.8	121	139	74.9	148	154							
85	5.35	6.10	6.26	4.84	5.99	6.41	6.64	7.70	7.57	6.25	7.68	7.32							
90	7.04	7.83	8.27	6.60	7.91	8.28	8.44	9.64	9.52	8.26	9.75	9.32							
95	9.47	10.2	10.5	8.91	10.0	10.4	10.6	11.8	11.7	10.6	12.0	11.6							
100	12.1	12.7	12.8	11.4	12.3	12.7	12.8	13.9	13.8	13.0	14.3	13.9							
105	14.3	14.8	14.8	13.5	14.2	14.6	14.5	15.6	15.6	15.0	16.1	15.8							
110	15.9	16.2	16.0	15.1	15.4	15.8	15.7	16.5	16.3	16.2	17.1	16.9							
115	16.5	16.4	16.2	15.7	15.5	15.9	15.7	16.3	16.2	16.5	17.1	16.9							
120	16.2	16.0	15.9	15.5	15.1	15.6	15.3	16.0	15.7	16.1	16.7	16.3							
125	15.4	15.1	15.3	14.6	14.1	14.9	14.1	14.9	14.5	14.9	15.8	15.2							
130	14.1	14.0	14.5	13.5	13.2	14.0	12.7	13.6	13.3	13.6	14.5	13.9							
135	13.2	13.5	13.7	12.6	13.0	13.2	11.6	12.1	12.3	12.3	13.0	12.9							
140	12.3	12.6	12.4	11.7	12.0	11.8	10.4	10.5	11.0	11.0	11.3	11.4							
145	10.9	10.8	10.7	10.5	10.5	10.1	9.32	9.38	9.72	9.92	9.96	9.94							
150	9.56	9.35	9.15	9.16	9.15	8.97	8.55	8.63	8.84	9.02	9.00	8.93							
155	8.65	8.46	8.33	8.33	8.33	8.27	8.03	8.11	8.20	8.30	8.32	8.27							
160	8.16	8.06	7.99	7.98	7.96	7.94	7.79	7.84	7.90	7.94	7.96	7.92							
165	7.95	7.91	7.86	7.85	7.83	7.81	7.70	7.75	7.77	7.80	7.81	7.77							
170	7.83	7.80	7.76	7.75	7.74	7.72	7.68	7.70	7.70	7.72	7.72	7.70							
175	7.75	7.73	7.70	7.71	7.69	7.67	7.68	7.69	7.69	7.68	7.68	7.66							
180	7.71	7.71	7.69	7.70	7.68	7.67	7.71	7.69	7.70	7.69	7.68	7.66							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks: