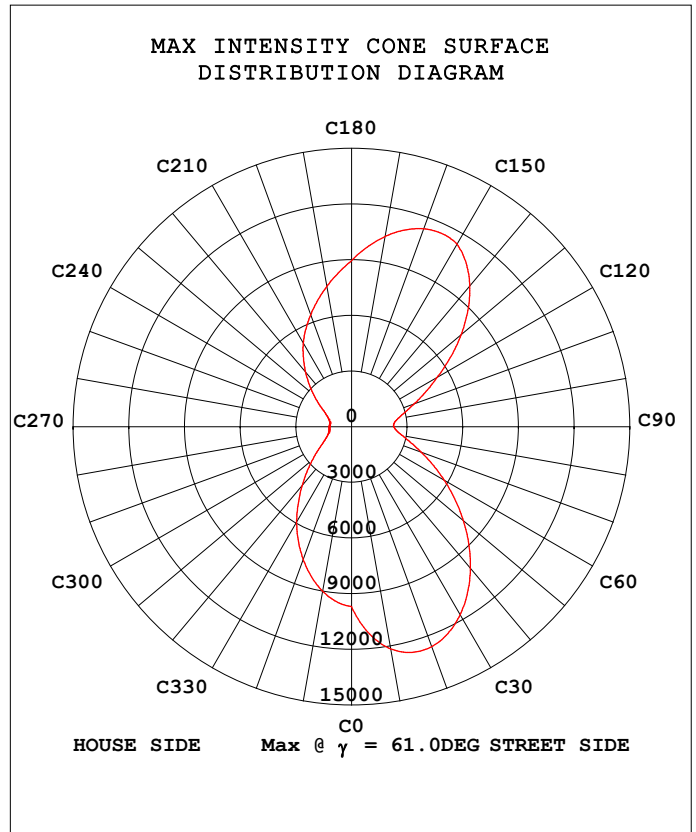
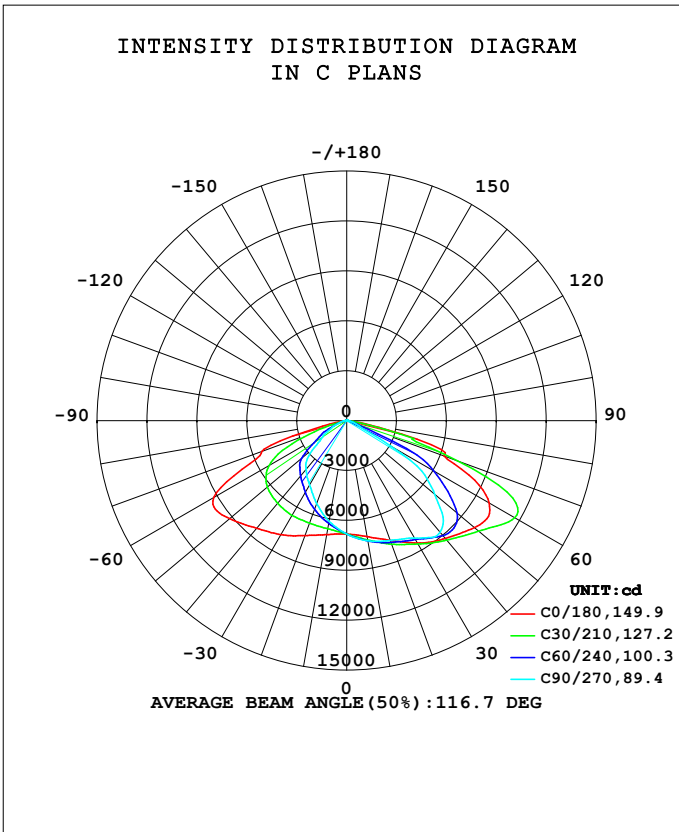


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:220.13V I:0.8888A P:193.22W PF:0.9876 Freq:49.99Hz Lamp Flux:28585.4x1 lm		
NAME: FLAT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	3030-5000K	Imax (cd)	11701	$\eta$ street_up (%)	0.2
NOMINAL POWER (W)	200	LOR (%)	100.0	$\eta$ street_down (%)	60.9
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	28585	$\eta$ house_up (%)	0.4
NOMINAL FLUX (lm)	28585.4	MAXIMUM @ (C, $\gamma$ )	30,61.0	$\eta$ house_down (%)	38.5
LAMPS INSIDE	1	$\eta$ up (%)	0.6	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	220	$\eta$ down (%)	99.4	SLI	23.768

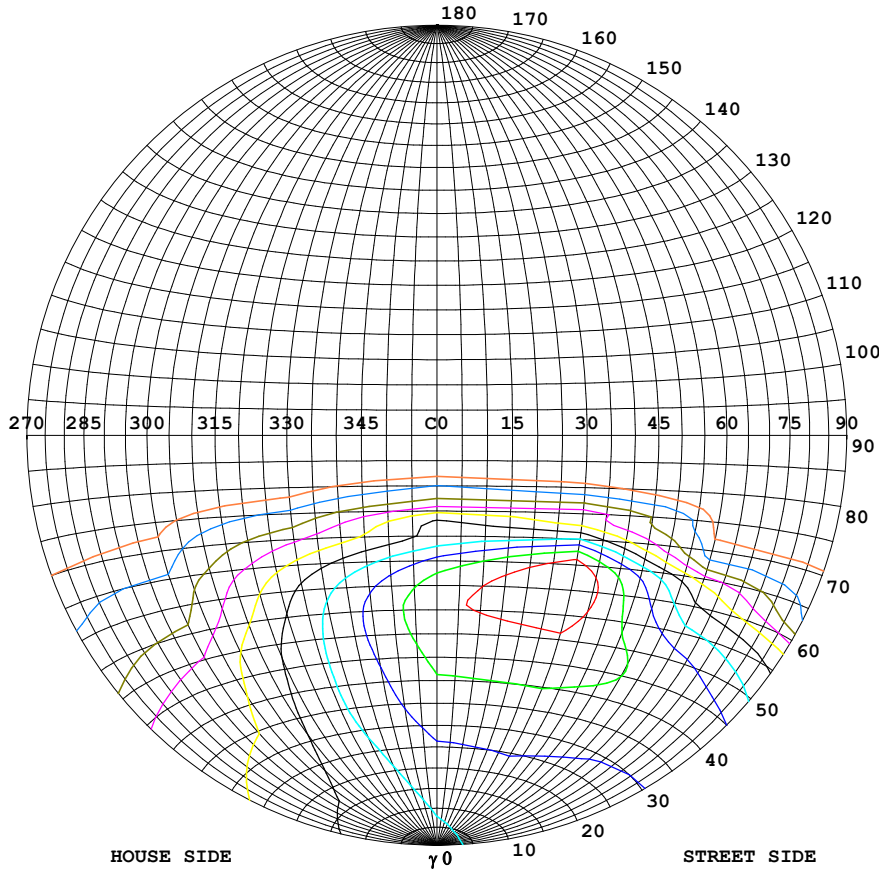


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: ADMIN  
 Test Date: 2023-05-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:220.13V I:0.8888A P:193.22W PF:0.9876 Freq:49.99Hz Lamp Flux:28585.4x1 lm		
NAME: FLAT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



**Classification:**

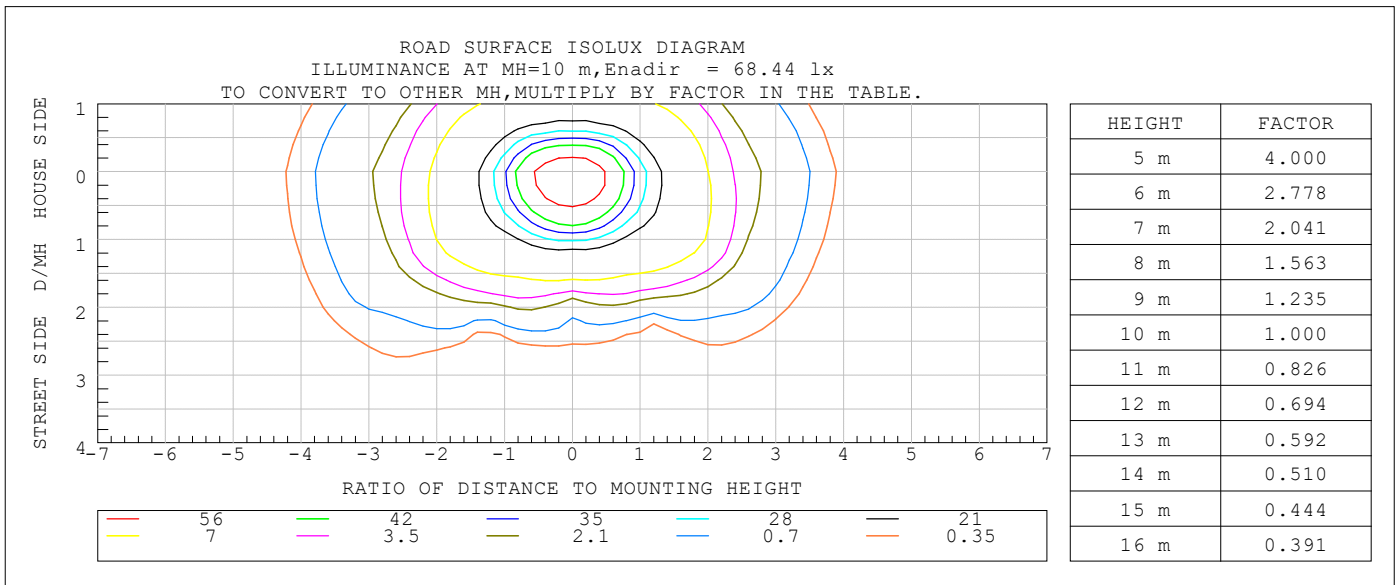
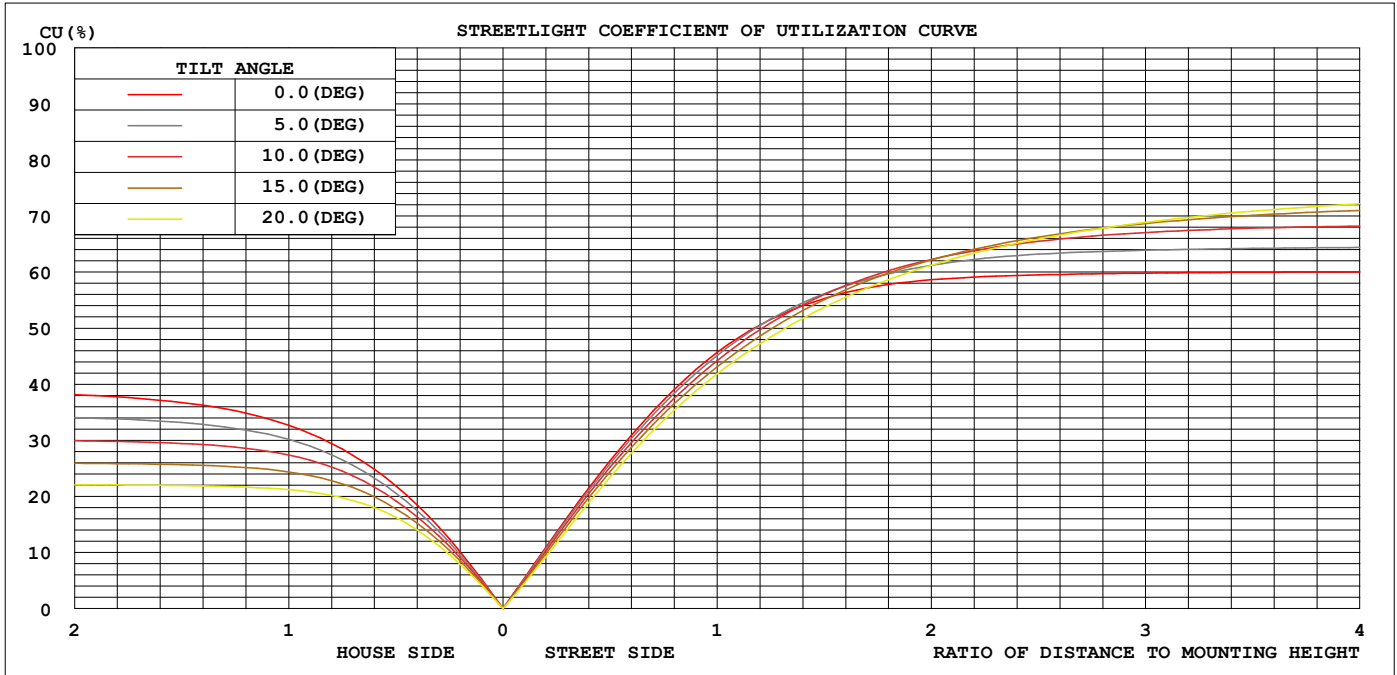
IES:Type II - Short  
 CIE:Average - Intermediate  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:40.98cd/klm  
 Max.At90:0.9210cd/klm  
 Max.80-90:40.98cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	11701
90%	10531
80%	9360
70%	8190
60%	7020
50%	5850
40%	4680
30%	3510
20%	2340
10%	1170
5%	585

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:ADMIN  
 Test Date:2023-05-27

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: 2023-05-27

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:220.13V I:0.8888A P:193.22W PF:0.9876 Freq:49.99Hz Lamp Flux:28585.4x1 lm		
NAME: FLAT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

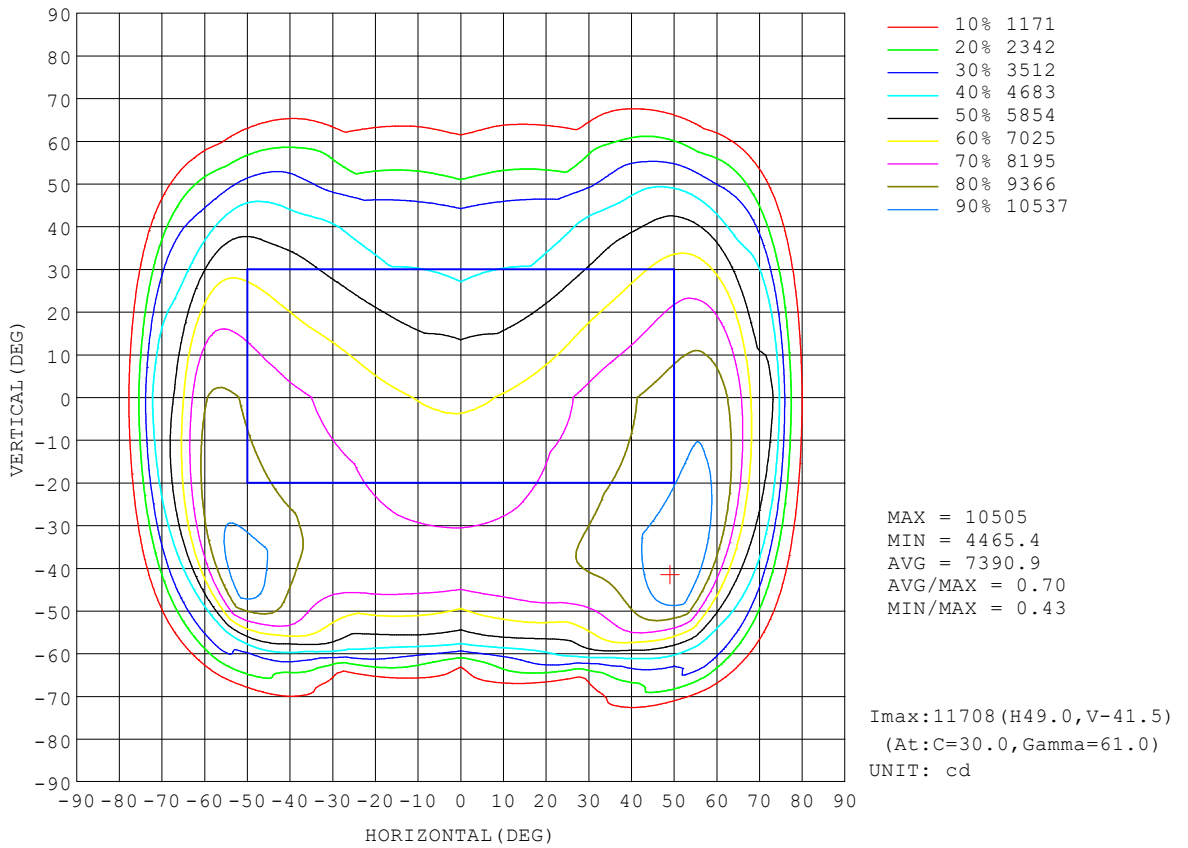
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	708.6	731.4	733.4	726.6	696.2	644.2	614.2	646.7	0- 10	653.8	653.8	2.29,2.29
20	765.8	784.6	766.2	770.7	735.2	611.4	530.0	616.6	10- 20	1964	2617	9.16,9.16
30	849.7	841.2	815.8	820.7	792.0	578.0	447.2	589.9	20- 30	3263	5880	20.6,20.6
40	924.3	919.9	874.2	888.4	844.1	540.0	381.1	562.4	30- 40	4568	10448	36.6,36.6
50	1002	950.8	691.8	900.9	918.0	488.6	254.2	519.4	40- 50	5676	16124	56.4,56.4
60	989.1	885.6	305.9	845.1	922.1	361.5	137.1	399.2	50- 60	6018	22143	77.5,77.5
70	623.8	389.7	62.26	308.1	543.9	154.4	58.43	202.4	60- 70	4592	26734	93.5,93.5
80	117.1	45.47	13.55	27.11	43.68	19.33	21.37	28.32	70- 80	1567	28301	99,99
90	1.991	0.9069	0.3239	0.9191	1.995	1.597	0.4538	1.810	80- 90	116.1	28418	99.4,99.4
100	1.968	0.8908	0.4106	0.8813	2.649	1.977	0.9419	1.901	90-100	12.41	28430	99.5,99.5
110	2.957	1.517	0.7428	1.439	3.643	2.882	1.942	2.866	100-110	19.47	28449	99.5,99.5
120	3.554	2.104	1.198	1.897	4.196	3.462	2.937	3.563	110-120	25.21	28475	99.6,99.6
130	3.980	2.643	1.691	2.267	4.531	3.873	3.552	4.085	120-130	27.47	28502	99.7,99.7
140	4.261	3.116	2.172	2.640	4.547	4.258	3.934	4.384	130-140	26.92	28529	99.8,99.8
150	4.244	3.431	2.690	2.977	4.368	4.374	4.301	4.321	140-150	23.49	28553	99.9,99.9
160	4.148	3.673	3.200	3.285	4.229	4.307	4.416	4.174	150-160	17.88	28570	99.9,99.9
170	4.164	3.877	3.635	3.568	4.183	4.178	4.254	4.003	160-170	11.14	28582	100,100
180	4.192	4.062	4.029	3.837	4.195	4.062	4.026	3.838	170-180	3.793	28585	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:ADMIN  
 Test Date:2023-05-27

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**

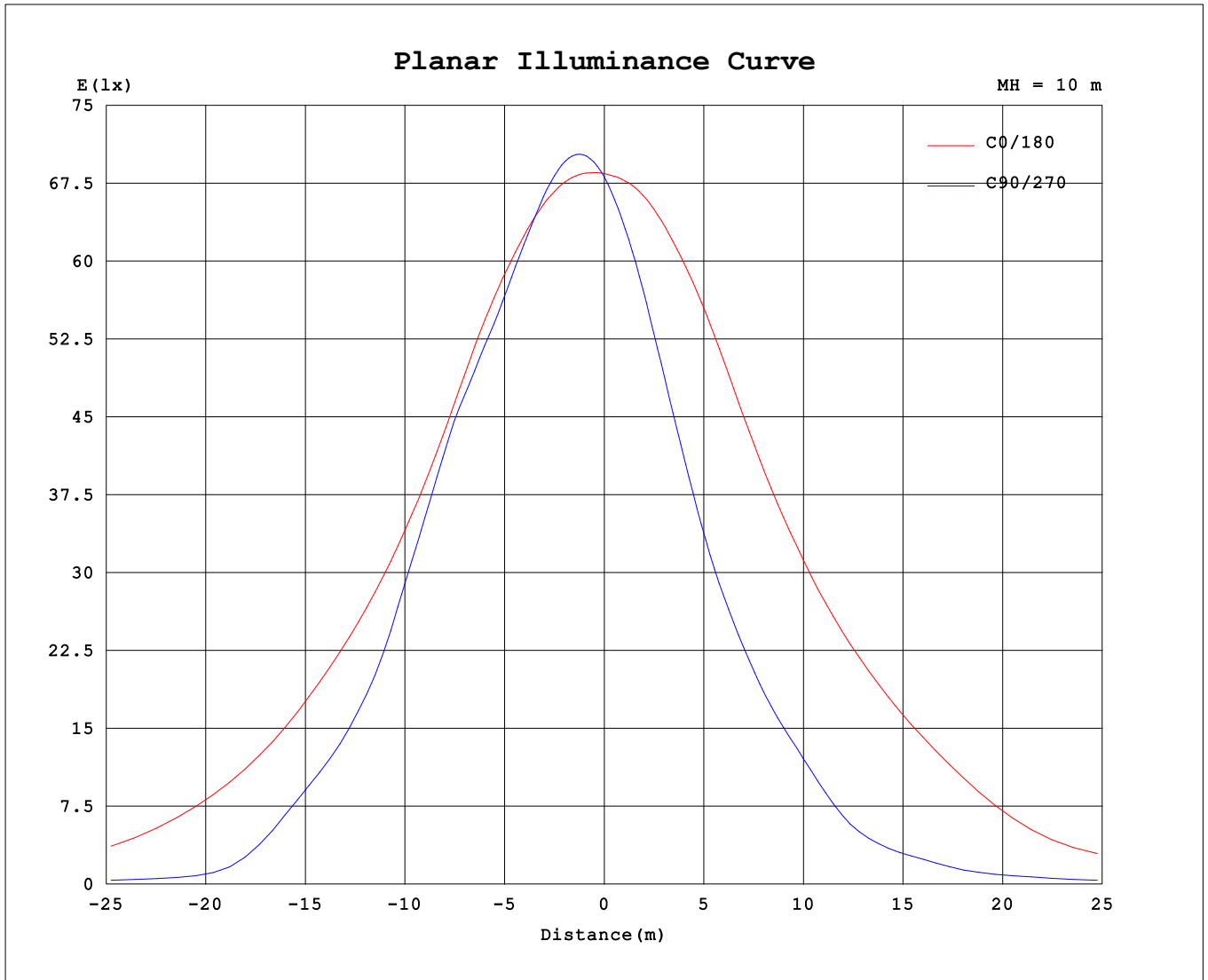
Test:U:220.13V I:0.8888A P:193.22W PF:0.9876 Freq:49.99Hz Lamp Flux:28585.4x1 lm		
NAME: FLAT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:ADMIN  
 Test Date:2023-05-27

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**



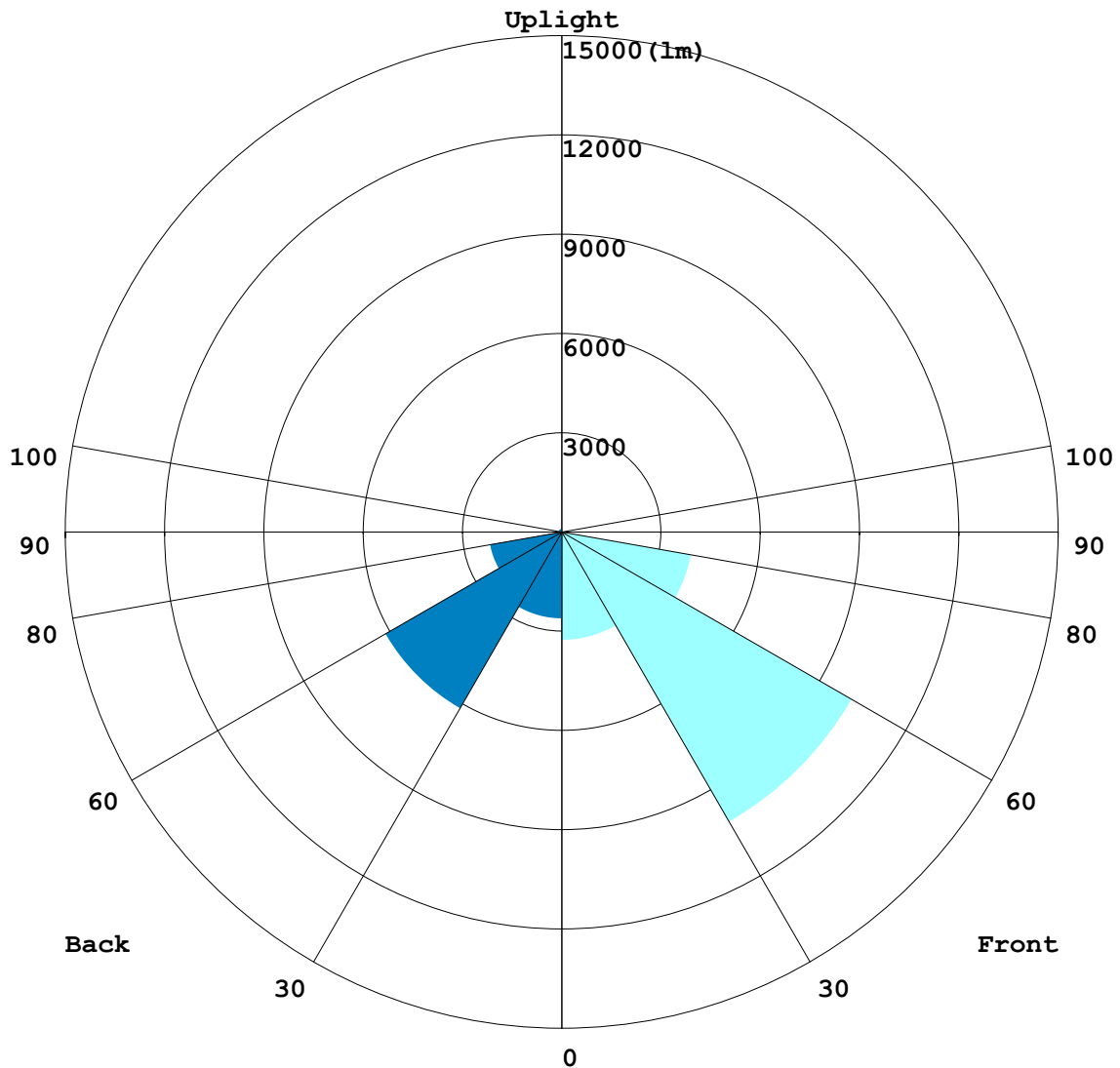
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: ADMIN  
 Test Date: 2023-05-27

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:220.13V I:0.8888A P:193.22W PF:0.9876 Freq:49.99Hz		
Lamp Flux:28585.4x1 lm		
NAME: FLAT	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:2023-05-27

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:220.13V I:0.8888A P:193.22W PF:0.9876 Freq:49.99Hz Lamp Flux:28585.4x1 lm		
NAME: FLAT	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)	3263.4	11.4
FM - Front-Medium(30-60)	10109	35.4
FH - Front-High(60-80)	3964.2	13.9
FVH - Front-Very High(80-90)	69.666	0.2
<b>Total Forward Light</b>	<b>17473</b>	<b>61.1</b>

BL - Back-Low(0-30)	2617	9.2
BM - Back-Medium(30-60)	6153	21.5
BH - Back-High(60-80)	2194.6	7.7
BVH - Back-Very High(80-90)	46.471	0.2
<b>Total Back Light</b>	<b>11112</b>	<b>38.9</b>

UL - Uplight-Low(90-100)	12.405	0.0
UH - Uplight-High(100-180)	155.37	0.5
<b>Total Up Light</b>	<b>167.78</b>	<b>0.6</b>

<b>BUG(Back,Up,Glare) Rating</b>	<b>B4-U3-G3</b>
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	11011	101.22	11112
Street Side	17406	66.557	17473

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:ADMIN  
 Test Date:2023-05-27

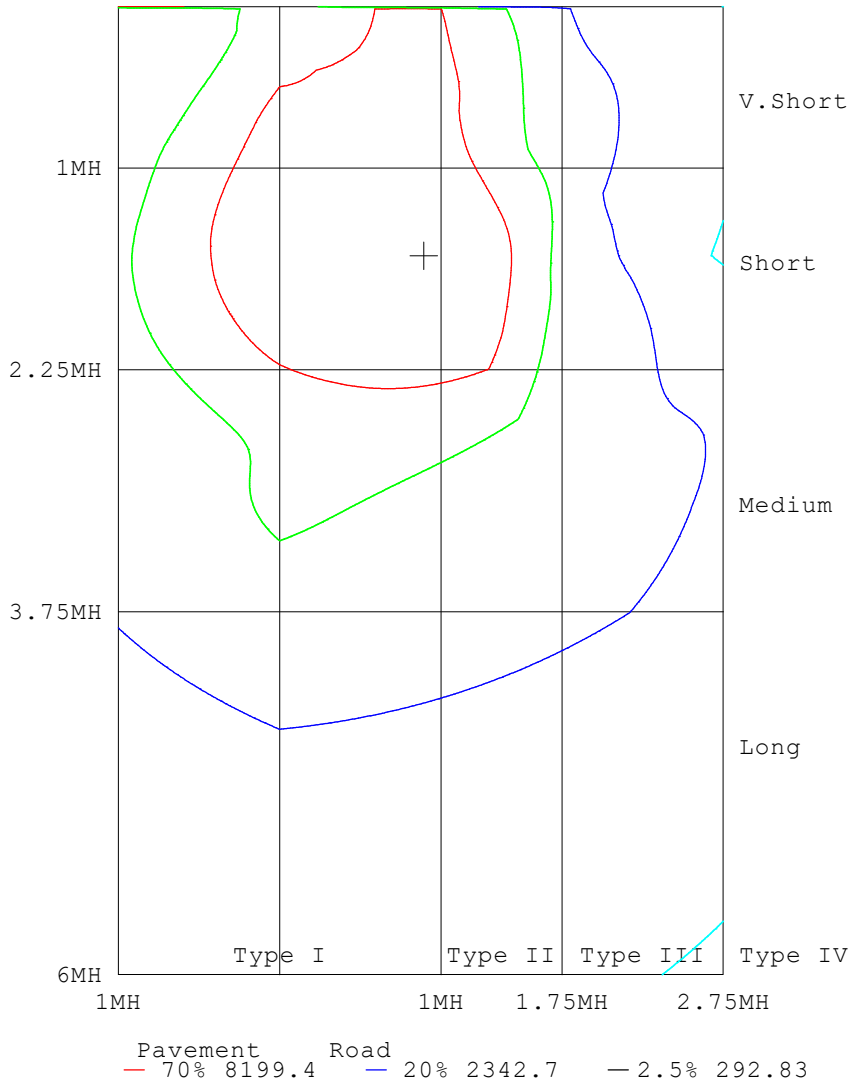
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:9.345m [K=1.0000]  
 Remarks:



**ROAD ISOCANDELA REPORT**

Test:U:220.13V I:0.8888A P:193.22W PF:0.9876 Freq:49.99Hz Lamp Flux:28585.4x1 lm		
NAME: FLAT	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:2023-05-27

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:220.13V I:0.8888A P:193.22W PF:0.9876 Freq:49.99Hz Lamp Flux:28585.4x1 lm		
NAME: FLAT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

Table--1

UNIT: X10cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	682	682	682	682	682	682	682	682	682	682	682	682							
5	691	702	709	710	707	700	685	668	655	650	655	670							
10	709	729	734	733	731	723	696	660	628	614	629	665							
15	734	758	758	752	751	747	713	657	598	573	599	664							
20	766	790	779	766	769	773	735	656	567	530	568	665							
25	805	822	801	786	789	798	764	657	535	487	535	671							
30	850	856	826	816	814	827	792	658	498	447	500	680							
35	891	897	863	859	852	857	817	655	464	416	466	688							
40	924	937	903	874	887	889	844	647	433	381	435	690							
45	961	982	912	820	886	930	879	638	400	342	402	688							
50	1002	1035	867	692	820	982	918	623	354	254	358	681							
55	1029	1103	742	573	691	1055	950	593	256	184	263	659							
60	989	1167	604	306	562	1128	922	539	184	137	189	610							
65	851	1103	397	90.7	276	1055	695	427	122	96.0	132	499							
70	624	707	72.1	62.3	62.8	554	544	242	66.3	58.4	73.8	331							
75	438	419	41.7	34.7	34.4	231	260	77.5	37.7	39.0	43.7	138							
80	117	72.4	18.5	13.6	13.9	40.3	43.7	19.5	19.2	21.4	23.3	33.4							
85	14.3	14.9	4.74	2.45	2.81	6.14	5.68	6.31	4.66	1.26	6.80	9.28							
90	1.99	1.51	0.30	0.32	0.29	1.55	1.99	2.46	0.74	0.45	0.99	2.63							
95	1.41	0.86	0.39	0.32	0.37	0.89	2.03	1.94	0.96	0.54	0.99	1.77							
100	1.97	1.21	0.57	0.41	0.53	1.24	2.65	2.51	1.44	0.94	1.47	2.33							
105	2.51	1.60	0.80	0.55	0.73	1.60	3.19	2.98	1.96	1.40	2.00	2.84							
110	2.96	1.97	1.06	0.74	0.96	1.92	3.64	3.34	2.43	1.94	2.50	3.23							
115	3.31	2.29	1.34	0.96	1.20	2.16	3.99	3.55	2.86	2.47	2.98	3.49							
120	3.55	2.58	1.63	1.20	1.44	2.35	4.20	3.73	3.19	2.94	3.37	3.75							
125	3.75	2.85	1.91	1.45	1.66	2.51	4.38	3.95	3.38	3.28	3.70	3.99							
130	3.98	3.11	2.17	1.69	1.86	2.67	4.53	4.21	3.54	3.55	3.98	4.19							
135	4.16	3.36	2.42	1.93	2.06	2.86	4.57	4.44	3.74	3.75	4.14	4.41							
140	4.26	3.57	2.66	2.17	2.27	3.01	4.55	4.53	3.99	3.93	4.25	4.52							
145	4.29	3.70	2.87	2.42	2.49	3.13	4.47	4.49	4.21	4.14	4.31	4.45							
150	4.24	3.78	3.08	2.69	2.73	3.23	4.37	4.41	4.34	4.30	4.31	4.33							
155	4.18	3.83	3.28	2.95	2.96	3.31	4.29	4.32	4.40	4.40	4.30	4.20							
160	4.15	3.89	3.46	3.20	3.17	3.40	4.23	4.26	4.36	4.42	4.26	4.09							
165	4.15	3.94	3.61	3.42	3.36	3.50	4.19	4.21	4.28	4.36	4.18	4.00							
170	4.16	3.99	3.76	3.63	3.54	3.60	4.18	4.16	4.20	4.25	4.09	3.92							
175	4.18	4.05	3.89	3.84	3.71	3.70	4.19	4.13	4.11	4.14	3.99	3.85							
180	4.19	4.10	4.02	4.03	3.88	3.79	4.20	4.10	4.02	4.03	3.88	3.79							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:ADMIN  
 Test Date:2023-05-27

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: