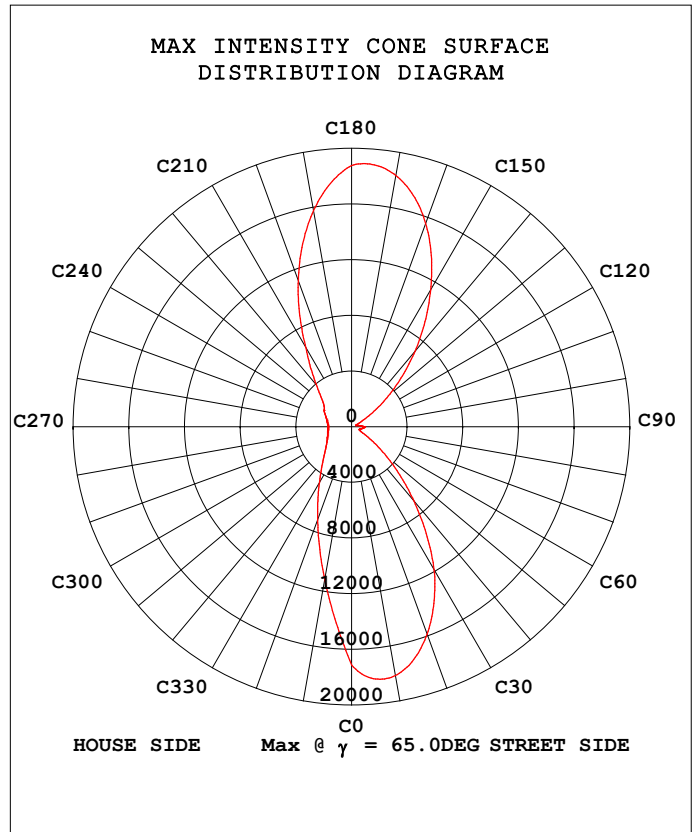
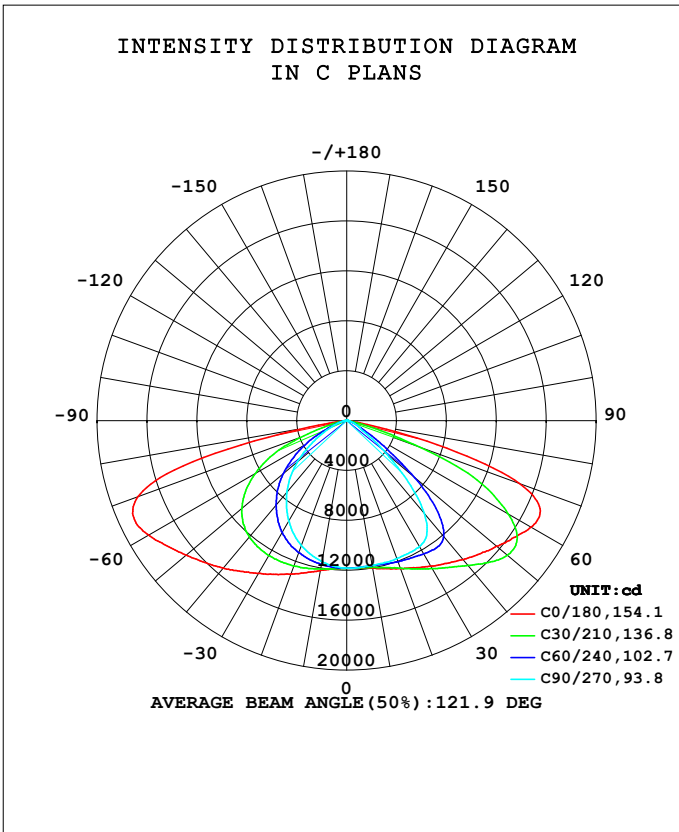


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:219.97V I:1.3190A P:286.05W PF:0.9859 Freq:49.99Hz Lamp Flux:43905.4x1 lm		
NAME: ORCAIII	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	3030-5000K	Imax (cd)	18779	$\eta$ street_up (%)	0.3
NOMINAL POWER (W)	300	LOR (%)	100.0	$\eta$ street_down (%)	53.3
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	43905	$\eta$ house_up (%)	0.3
NOMINAL FLUX (lm)	43905.4	MAXIMUM @ (C, $\gamma$ )	180,65.0	$\eta$ house_down (%)	46.1
LAMPS INSIDE	1	$\eta$ up (%)	0.6	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	220	$\eta$ down (%)	99.4	SLI	23.768

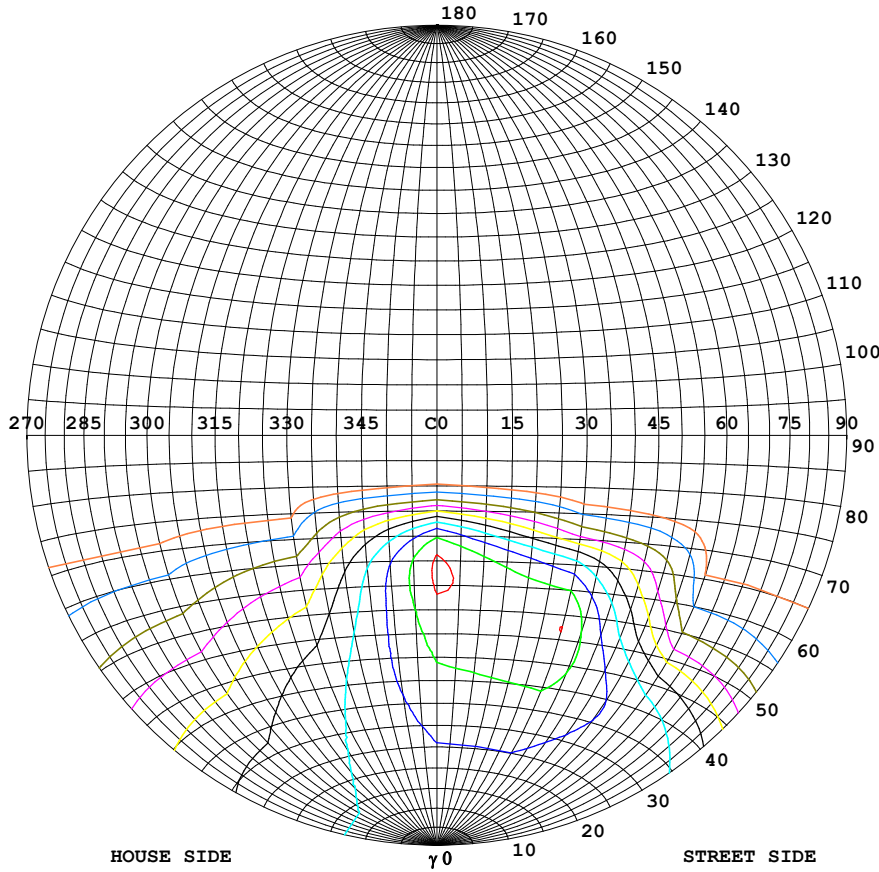


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25°C  
Operators: ADMIN  
Test Date: 2023-03-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 53%  
Test Distance: 9.300m [K=1.0000]  
Remarks:

**STREETLIGHT ISOCANDELA DIAGRAM**

Test:U:219.97V I:1.3190A P:286.05W PF:0.9859 Freq:49.99Hz Lamp Flux:43905.4x1 lm		
NAME: ORCAIII	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



**Classification:**

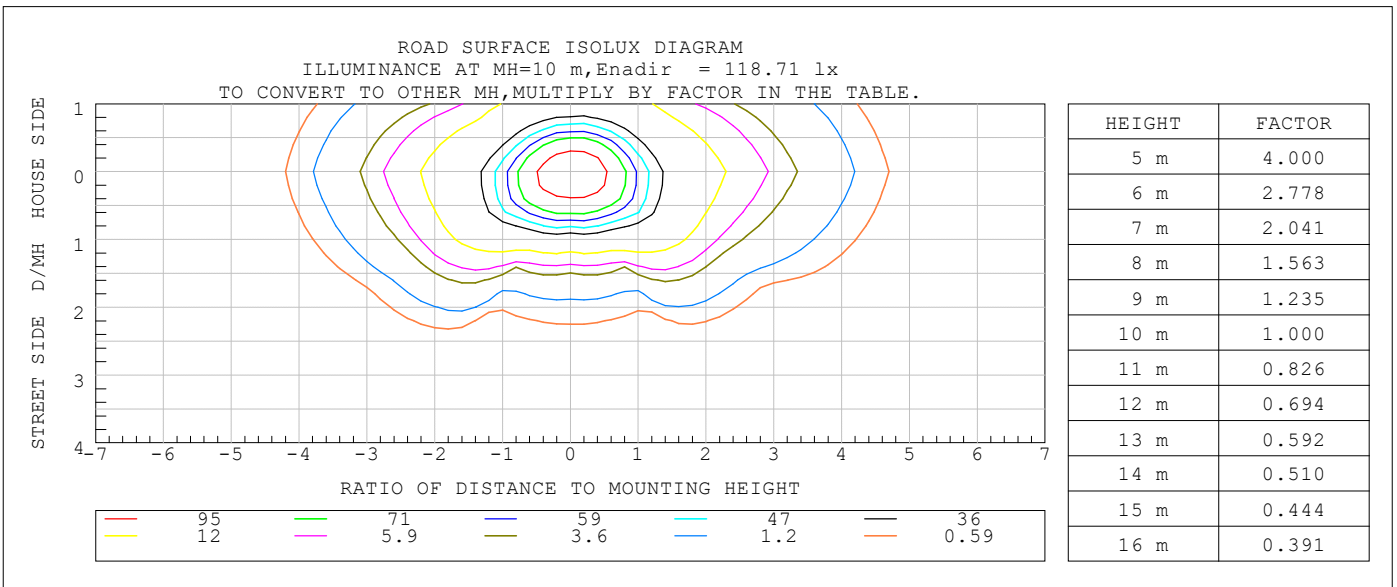
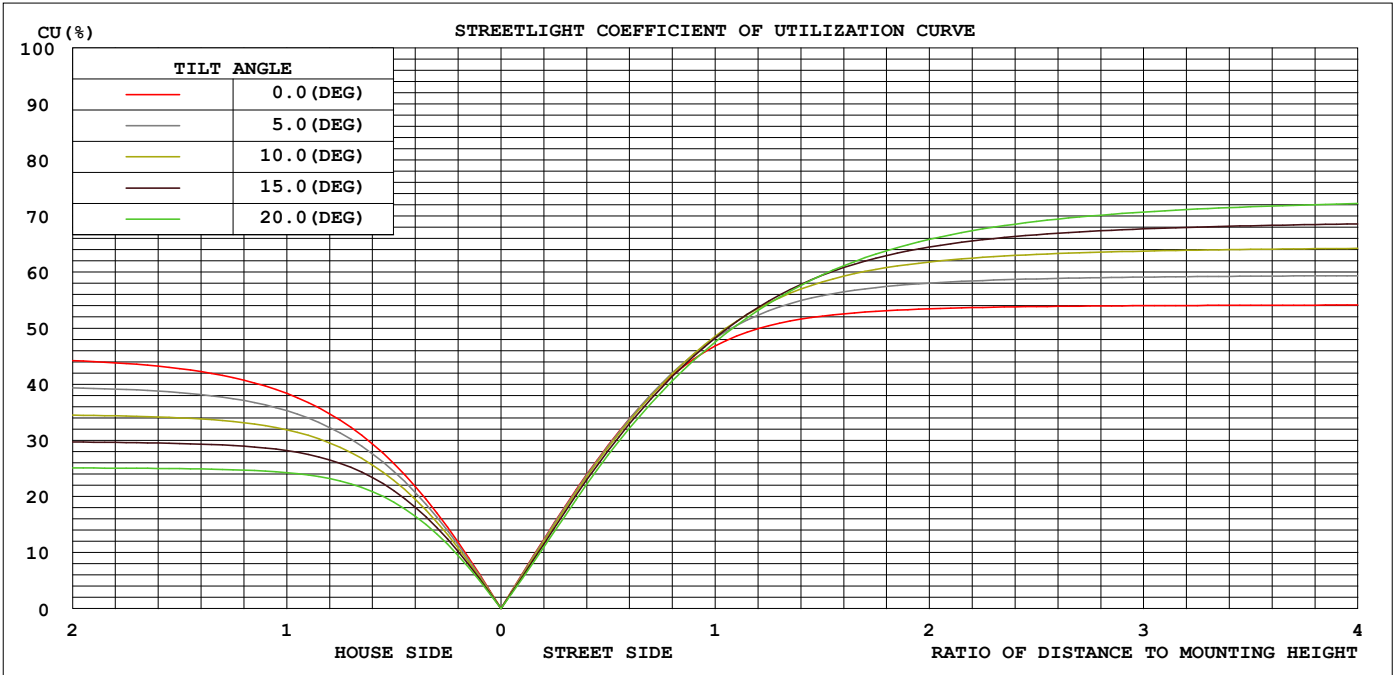
IES:Type II - Short  
 CIE:Narrow - Intermediate  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:69.79cd/klm  
 Max.At90:0.6322cd/klm  
 Max.80-90:69.79cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	18779
90%	16901
80%	15023
70%	13145
60%	11268
50%	9390
40%	7512
30%	5634
20%	3756
10%	1878
5%	939

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25°C  
 Operators:ADMIN  
 Test Date:2023-03-30

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:53%  
 Test Distance:9.300m [K=1.0000]  
 Remarks:

**COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM**



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25°C  
 Operators: ADMIN  
 Test Date: 2023-03-30

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity: 53%  
 Test Distance: 9.300m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

Test:U:219.97V I:1.3190A P:286.05W PF:0.9859 Freq:49.99Hz Lamp Flux:43905.4x1 lm		
NAME: ORCAIII	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

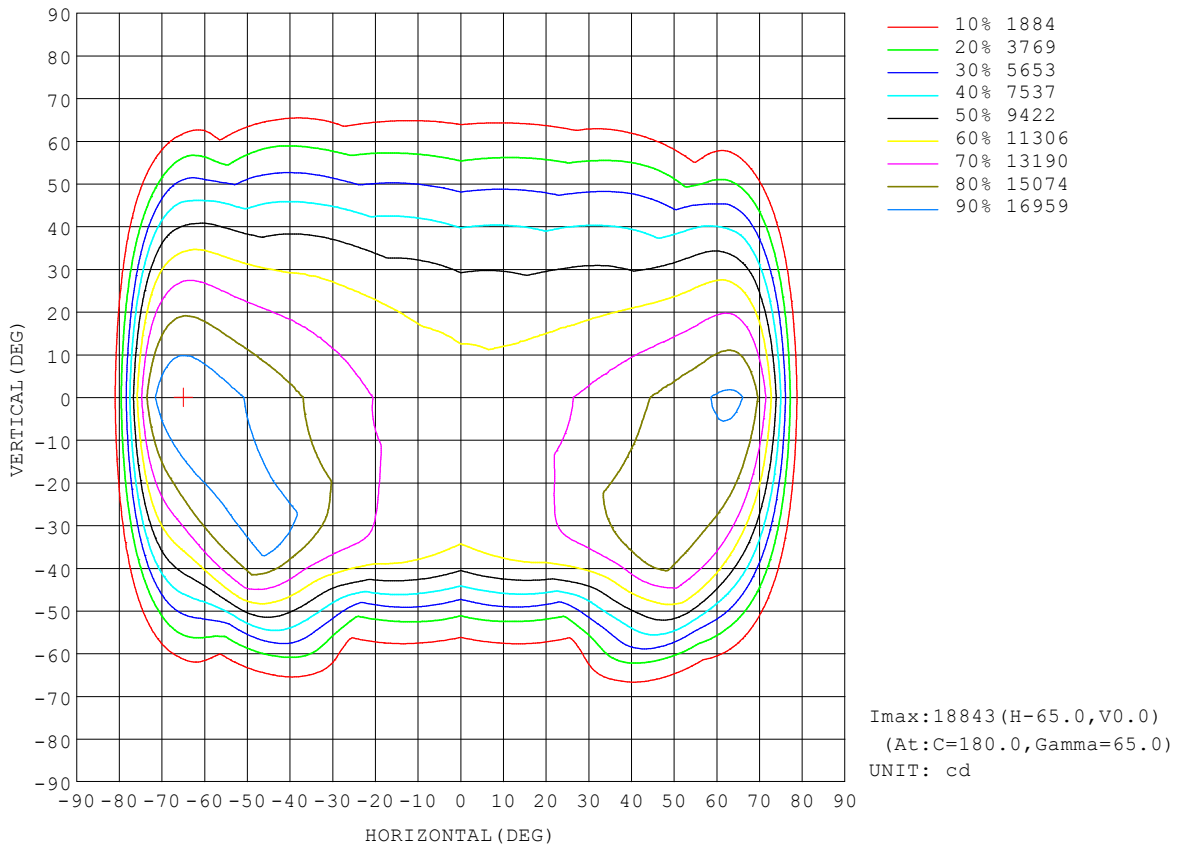
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1201	1187	1177	1206	1221	1189	1147	1161	0- 10	1131	1131	2.58,2.58
20	1261	1232	1177	1266	1308	1182	1065	1121	10- 20	3386	4516	10.3,10.3
30	1347	1302	1166	1343	1415	1143	929.5	1057	20- 30	5592	10108	23,23
40	1453	1363	966.8	1410	1543	1049	746.3	943.6	30- 40	7573	17681	40.3,40.3
50	1567	1196	425.3	1246	1677	882.5	516.1	758.6	40- 50	8658	26339	60,60
60	1707	840.9	127.7	866.9	1835	615.7	264.7	496.4	50- 60	8192	34531	78.6,78.6
70	1471	348.1	61.23	284.6	1780	253.9	104.2	159.4	60- 70	6427	40958	93.3,93.3
80	109.5	23.12	11.34	24.29	306.4	36.57	23.20	28.63	70- 80	2560	43518	99.1,99.1
90	2.400	0.7066	0.3203	0.5711	2.776	1.274	0.2812	1.232	80- 90	138.8	43657	99.4,99.4
100	4.228	1.440	0.5725	1.026	4.040	2.185	0.5863	2.474	90-100	15.98	43673	99.5,99.5
110	5.419	2.498	1.152	1.832	5.272	3.310	1.475	3.803	100-110	26.44	43699	99.5,99.5
120	6.269	3.574	1.962	2.679	6.059	4.293	2.867	5.060	110-120	34.93	43734	99.6,99.6
130	7.116	4.575	2.902	3.420	6.815	4.928	4.199	6.138	120-130	40.27	43775	99.7,99.7
140	7.374	5.376	3.862	4.094	7.017	5.499	5.332	6.719	130-140	40.84	43815	99.8,99.8
150	7.092	5.997	4.788	4.764	6.786	6.100	6.143	6.868	140-150	36.42	43852	99.9,99.9
160	6.936	6.455	5.599	5.413	6.736	6.613	6.868	6.900	150-160	28.76	43881	99.9,99.9
170	7.002	6.721	6.228	6.014	6.900	6.846	6.970	6.777	160-170	18.51	43899	100,100
180	6.969	6.883	6.730	6.506	6.975	6.884	6.725	6.507	170-180	6.387	43905	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25°C  
 Operators:ADMIN  
 Test Date:2023-03-30

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:53%  
 Test Distance:9.300m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

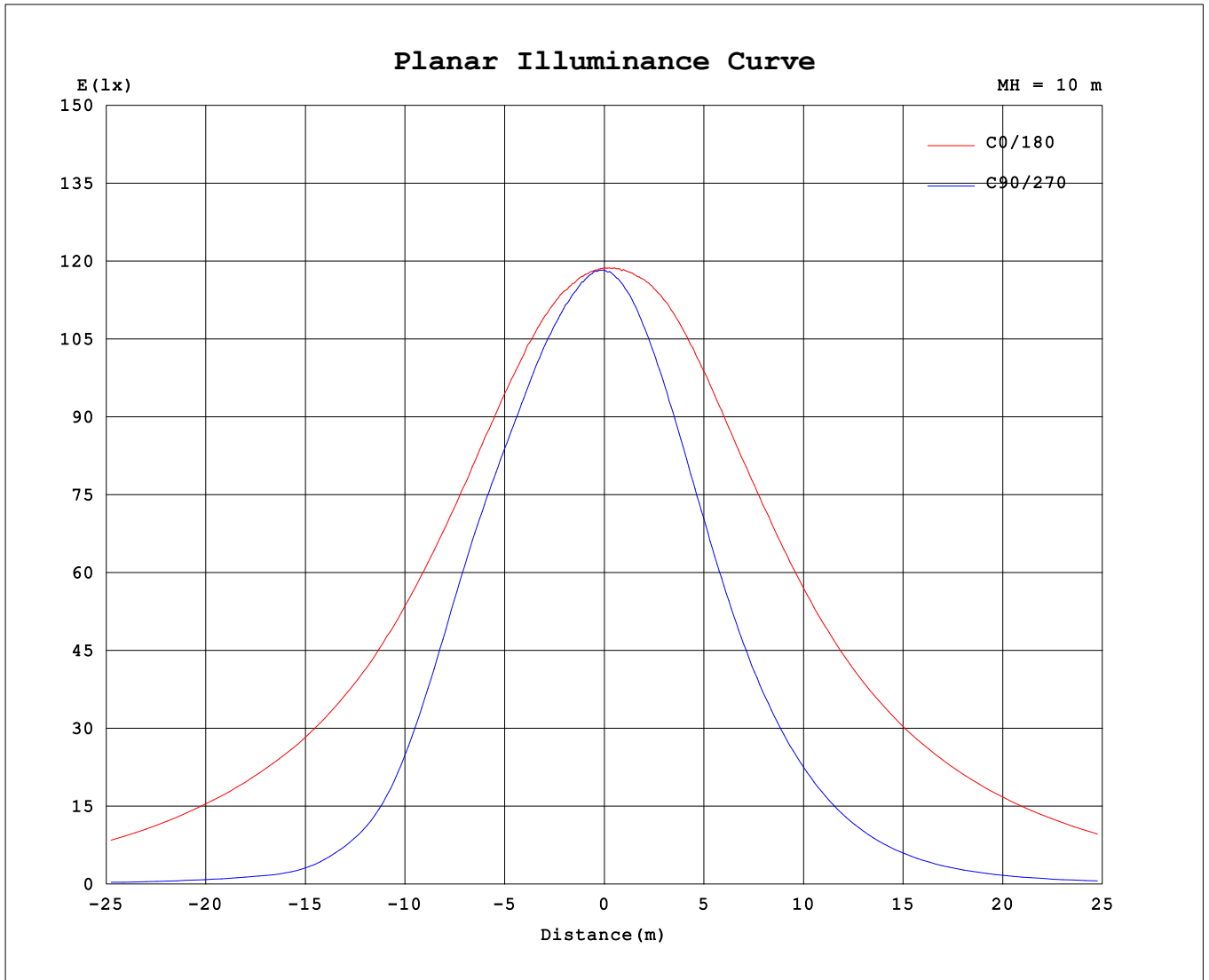
Test:U:219.97V I:1.3190A P:286.05W PF:0.9859 Freq:49.99Hz Lamp Flux:43905.4x1 lm		
NAME: ORCAIII	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25°C  
 Operators:ADMIN  
 Test Date:2023-03-30

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:53%  
 Test Distance:9.300m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



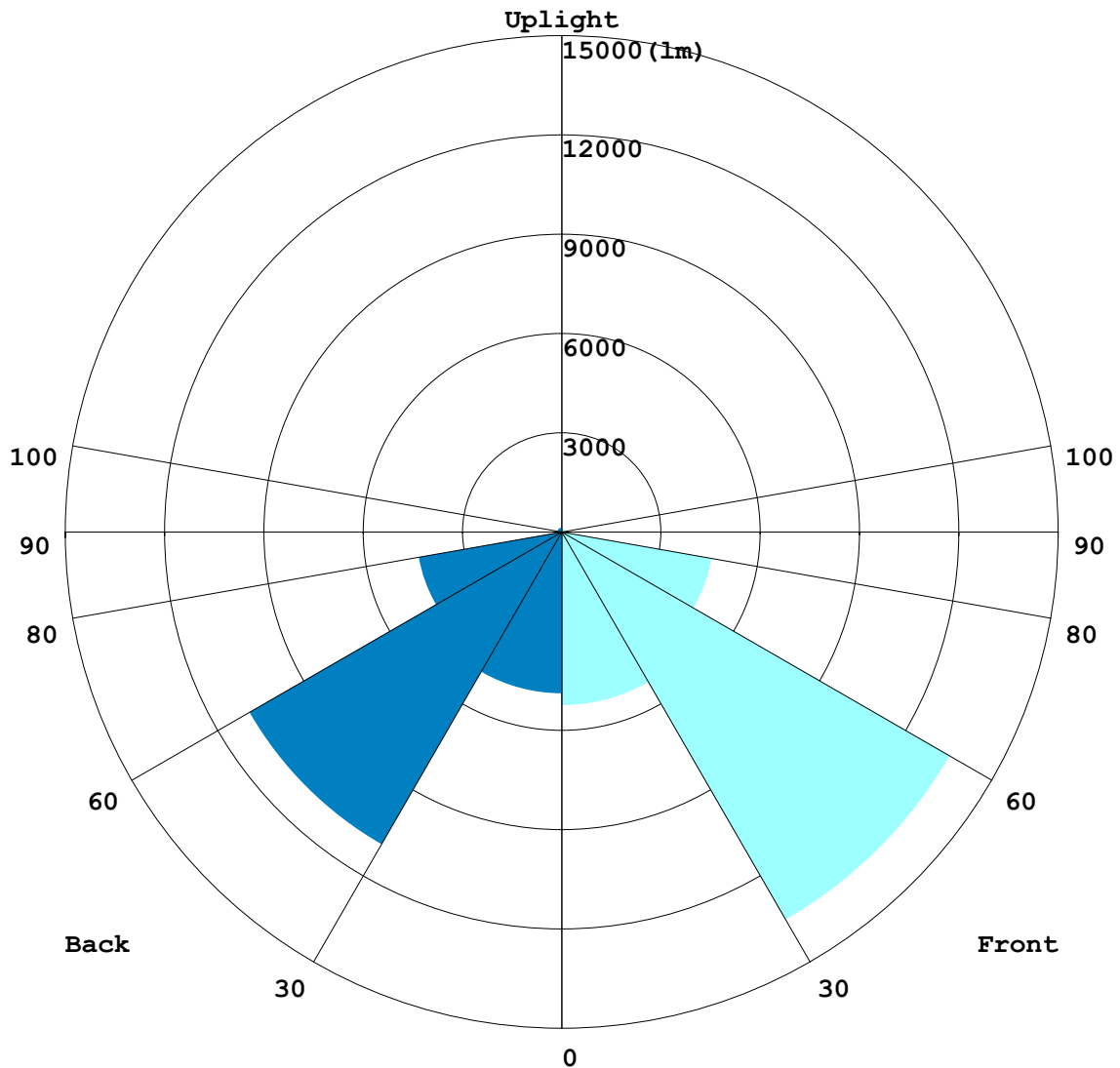
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25°C  
 Operators: ADMIN  
 Test Date: 2023-03-30

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity: 53%  
 Test Distance: 9.300m [K=1.0000]  
 Remarks:

**LCS REPORT**

Test:U:219.97V I:1.3190A P:286.05W PF:0.9859 Freq:49.99Hz Lamp Flux:43905.4x1 lm		
NAME: ORCAIII	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°C  
 Operators:ADMIN  
 Test Date:2023-03-30

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:53%  
 Test Distance:9.300m [K=1.0000]  
 Remarks:

**BUG REPORT**

Test:U:219.97V I:1.3190A P:286.05W PF:0.9859 Freq:49.99Hz Lamp Flux:43905.4x1 lm		
NAME: ORCAIII	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)	5233	11.9
FM - Front-Medium(30-60)	13528	30.8
FH - Front-High(60-80)	4596.7	10.5
FVH - Front-Very High(80-90)	42.122	0.1
<b>Total Forward Light</b>	<b>23510</b>	<b>53.5</b>

BL - Back-Low(0-30)	4875.2	11.1
BM - Back-Medium(30-60)	10895	24.8
BH - Back-High(60-80)	4390.3	10.0
BVH - Back-Very High(80-90)	96.652	0.2
<b>Total Back Light</b>	<b>20396</b>	<b>46.5</b>

UL - Uplight-Low(90-100)	15.977	0.0
UH - Uplight-High(100-180)	232.55	0.5
<b>Total Up Light</b>	<b>248.53</b>	<b>0.6</b>

<b>BUG(Back,Up,Glare) Rating</b>	<b>B5-U3-G4</b>
----------------------------------	-----------------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	20257	138.43	20396
Street Side	23400	110.1	23510

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25°C  
 Operators:ADMIN  
 Test Date:2023-03-30

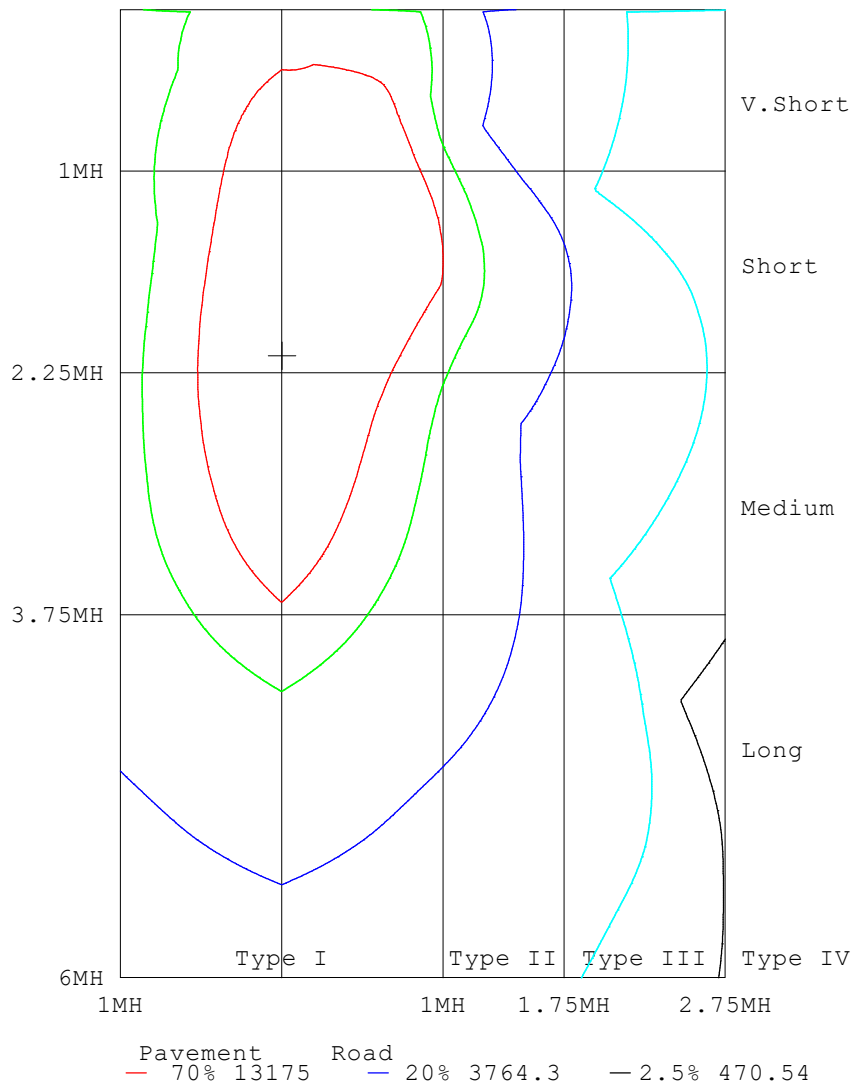
γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:53%  
 Test Distance:9.300m [K=1.0000]  
 Remarks:



**ROAD ISOCANDELA REPORT**

Test:U:219.97V I:1.3190A P:286.05W PF:0.9859 Freq:49.99Hz Lamp Flux:43905.4x1 lm		
NAME: ORCAIII	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°C  
Operators:ADMIN  
Test Date:2023-03-30

50% 9410.8      5% 9410.8

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:53%  
Test Distance:9.300m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.97V I:1.3190A P:286.05W PF:0.9859 Freq:49.99Hz Lamp Flux:43905.4x1 lm		
NAME: ORCAIII	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	1183	1183	1183	1183	1183	1183	1183	1183	1183	1183	1183	1183							
5	1185	1184	1179	1182	1189	1197	1192	1192	1180	1171	1171	1176							
10	1201	1194	1180	1177	1194	1218	1221	1207	1171	1147	1150	1171							
15	1229	1221	1190	1178	1210	1255	1261	1225	1153	1111	1119	1170							
20	1261	1259	1205	1177	1228	1304	1308	1239	1125	1065	1080	1163							
25	1303	1312	1215	1175	1239	1364	1358	1248	1089	1004	1033	1156							
30	1347	1371	1233	1166	1254	1431	1415	1250	1035	929	973	1142							
35	1396	1436	1248	1118	1267	1502	1476	1239	965	842	899	1117							
40	1453	1516	1210	967	1228	1592	1543	1215	883	746	813	1074							
45	1510	1608	1030	703	1044	1692	1608	1172	783	639	714	1010							
50	1567	1680	712	425	723	1769	1677	1098	666	516	599	918							
55	1636	1666	386	228	388	1746	1755	990	529	386	473	799							
60	1707	1495	186	128	187	1547	1835	846	385	265	339	654							
65	1712	1190	99.5	93.7	101	1136	1878	659	231	170	205	464							
70	1471	632	64.5	61.2	66.0	503	1780	391	117	104	108	211							
75	750	175	35.0	31.5	37.0	137	1275	151	64.5	60.8	61.6	80.1							
80	109	33.6	12.7	11.3	15.0	33.6	306	42.3	30.9	23.2	27.0	30.3							
85	7.28	3.16	1.12	0.75	1.53	4.93	24.9	10.5	6.24	0.64	3.80	6.97							
90	2.40	0.99	0.42	0.32	0.43	0.71	2.78	2.12	0.43	0.28	0.41	2.05							
95	3.33	1.45	0.52	0.39	0.47	0.94	3.15	2.55	0.57	0.38	0.69	2.83							
100	4.23	2.07	0.81	0.57	0.69	1.37	4.04	3.39	0.98	0.59	1.22	3.73							
105	4.90	2.74	1.18	0.83	0.97	1.85	4.77	4.00	1.56	0.94	1.94	4.39							
110	5.42	3.37	1.62	1.15	1.32	2.34	5.27	4.38	2.24	1.48	2.74	4.87							
115	5.85	3.98	2.10	1.54	1.71	2.81	5.67	4.75	2.88	2.15	3.50	5.35							
120	6.27	4.55	2.60	1.96	2.13	3.23	6.06	5.13	3.46	2.87	4.18	5.94							
125	6.69	5.08	3.13	2.42	2.56	3.57	6.46	5.29	3.98	3.55	4.79	6.52							
130	7.12	5.50	3.65	2.90	2.98	3.86	6.81	5.42	4.43	4.20	5.37	6.91							
135	7.36	5.83	4.16	3.39	3.38	4.13	7.02	5.70	4.76	4.81	5.88	7.12							
140	7.37	6.11	4.64	3.86	3.77	4.42	7.02	5.99	5.01	5.33	6.25	7.19							
145	7.23	6.34	5.09	4.33	4.17	4.69	6.89	6.23	5.34	5.75	6.51	7.13							
150	7.09	6.50	5.49	4.79	4.58	4.95	6.79	6.40	5.80	6.14	6.70	7.03							
155	6.99	6.63	5.86	5.23	4.97	5.22	6.73	6.52	6.26	6.55	6.88	6.92							
160	6.94	6.75	6.16	5.60	5.33	5.49	6.74	6.61	6.62	6.87	6.98	6.82							
165	6.94	6.83	6.40	5.93	5.68	5.77	6.80	6.70	6.82	7.00	6.99	6.74							
170	7.00	6.86	6.58	6.23	6.00	6.03	6.90	6.79	6.90	6.97	6.89	6.67							
175	6.99	6.88	6.74	6.50	6.29	6.26	6.93	6.86	6.91	6.87	6.73	6.57							
180	6.97	6.90	6.86	6.73	6.55	6.46	6.98	6.90	6.87	6.72	6.55	6.46							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25°C  
 Operators:ADMIN  
 Test Date:2023-03-30

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:53%  
 Test Distance:9.300m [K=1.0000]  
 Remarks: