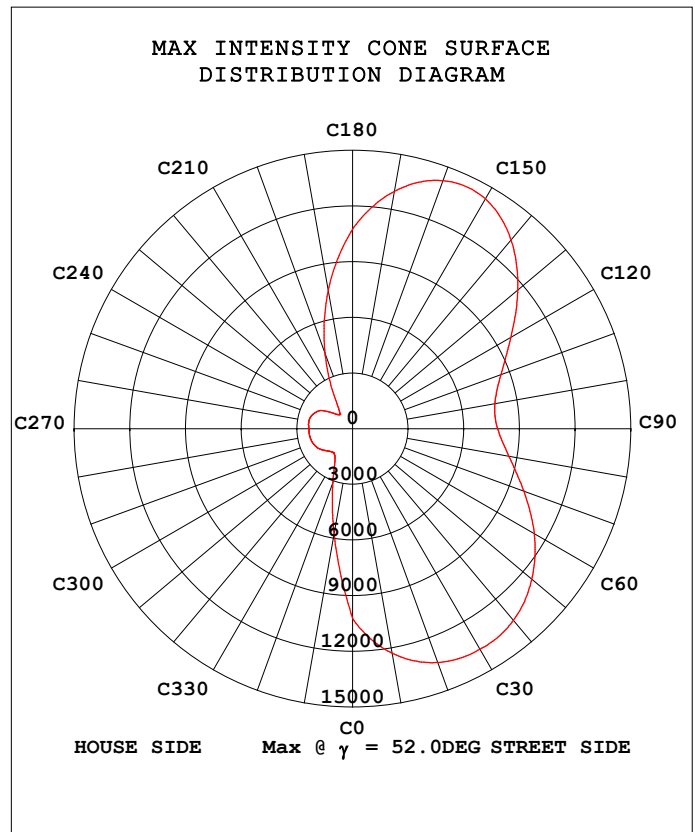
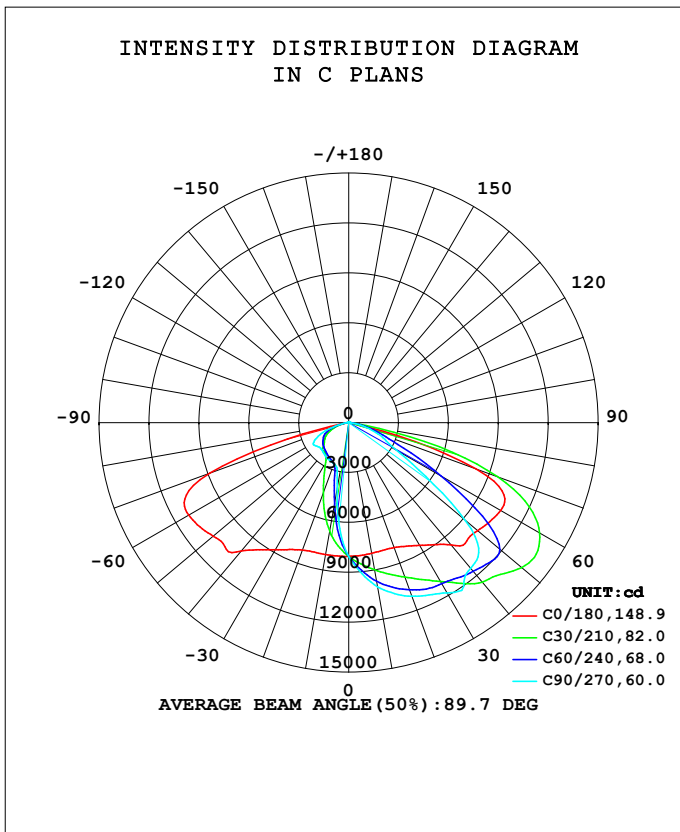


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.12V I:0.9042A P:196.60W PF:0.9877 Freq:49.99Hz Lamp Flux:30390.9x1 lm		
NAME: ORCAII	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 154.58 lm/W
MODEL	3030-5000K	I _{max} (cd)	14315	η street_up (%)	0.2	
NOMINAL POWER (W)	200	LOR (%)	100.0	η street_down (%)	72.3	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	30391	η house_up (%)	0.4	
NOMINAL FLUX (lm)	30390.9	MAXIMUM @ (C, γ)	150,52.0	η house_down (%)	27.1	
LAMPS INSIDE	1	η up (%)	0.6	76 FLASHAREA (m2)	0.05000	
TEST VOLTAGE (V)	220	η down (%)	99.4	SLI	21.849	

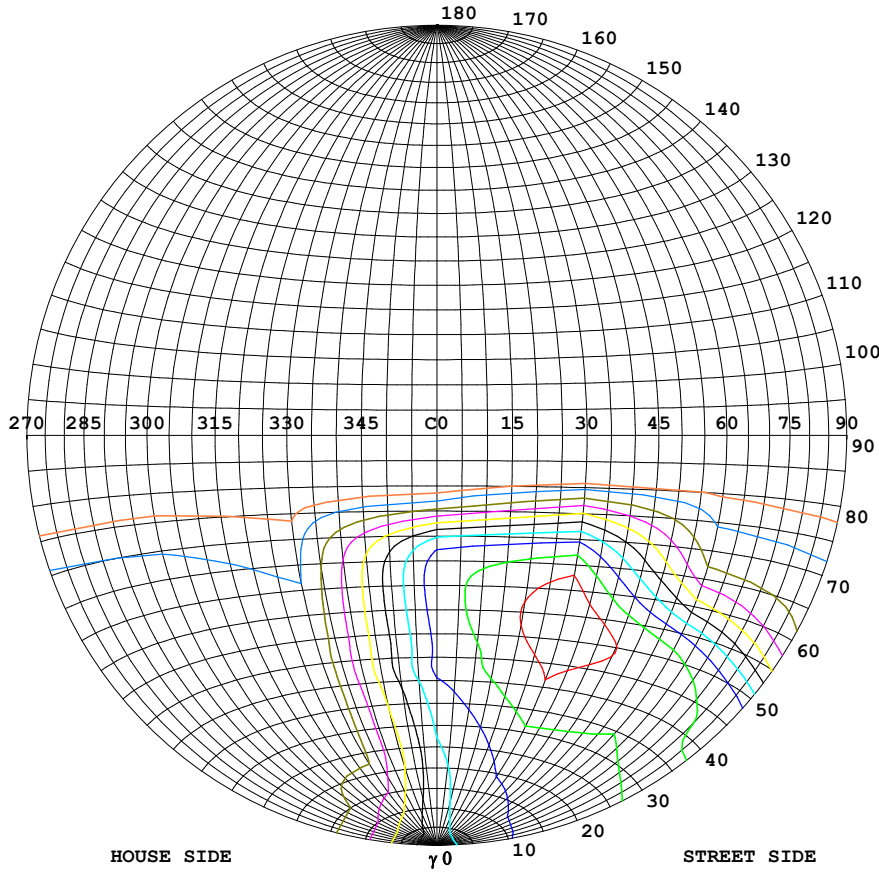


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-05-22

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:220.12V I:0.9042A P:196.60W PF:0.9877 Freq:49.99Hz Lamp Flux:30390.9x1 lm		
NAME: ORCAII	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



Classification:

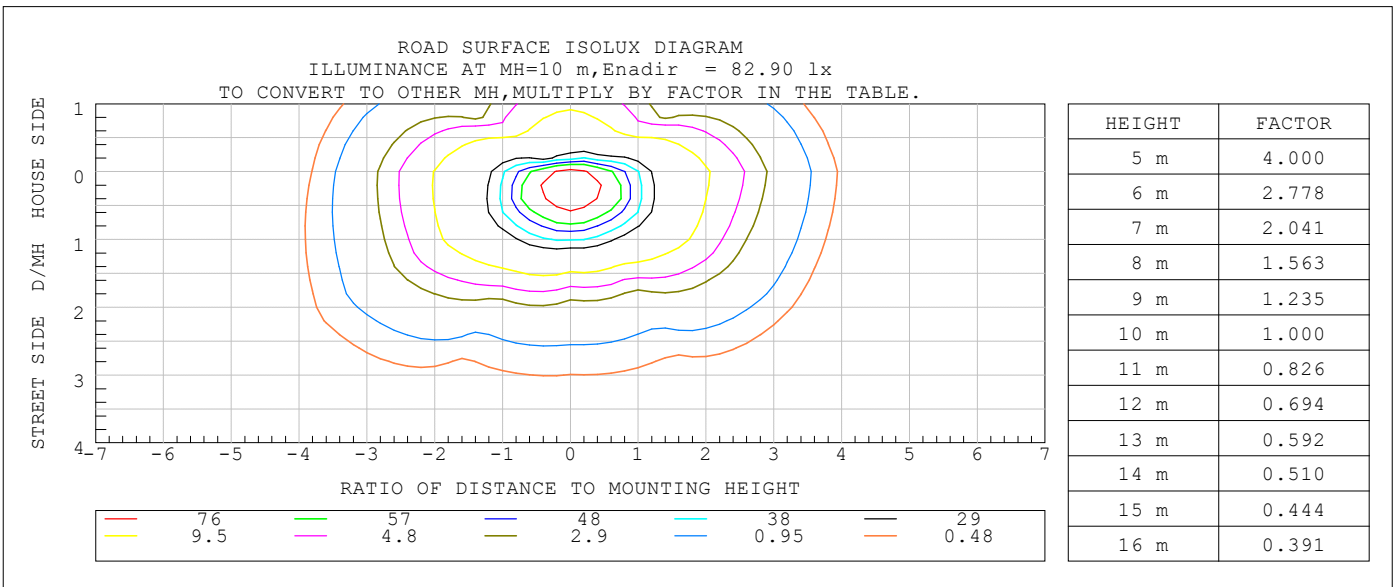
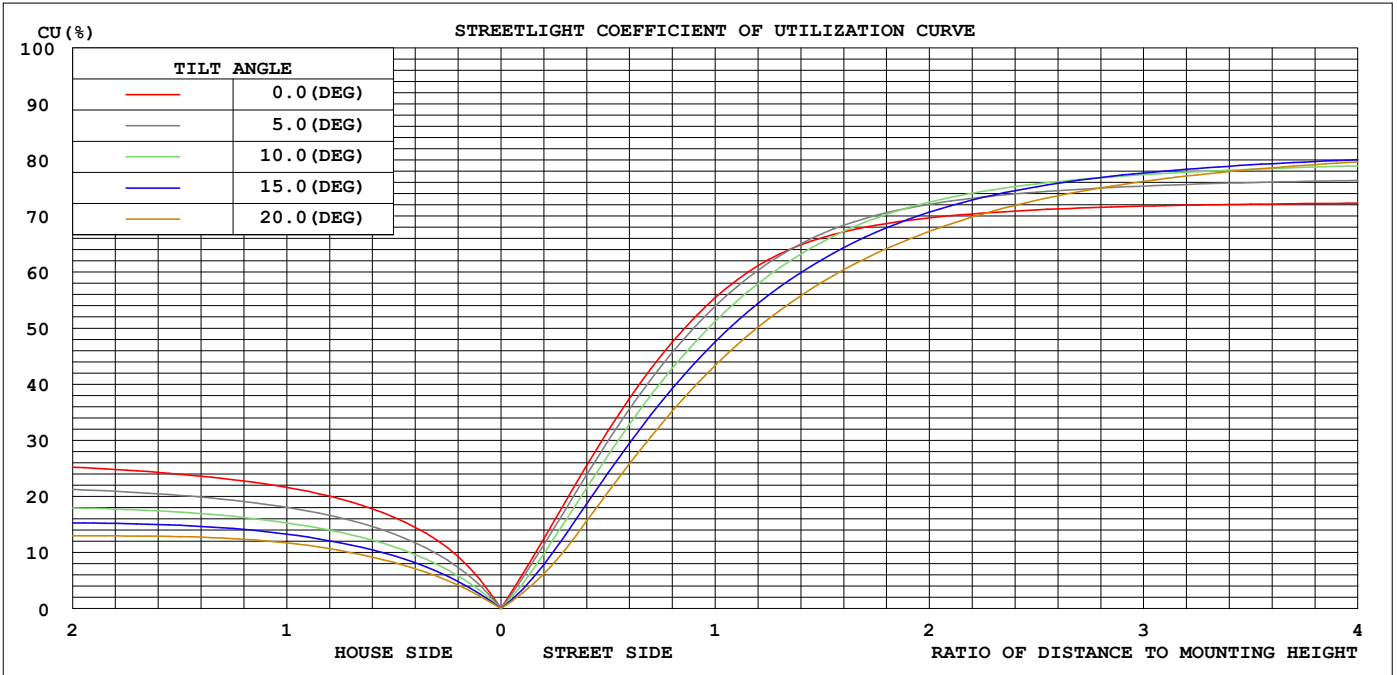
IES:Type II - Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:35.91cd/klm
 Max.At90:0.5890cd/klm
 Max.80-90:35.91cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	14315
— 90%	12883
— 80%	11452
— 70%	10020
— 60%	8589
— 50%	7157
— 40%	5726
— 30%	4294
— 20%	2863
— 10%	1431
— 5%	716

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-05-22

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: 2023-05-22

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:220.12V I:0.9042A P:196.60W PF:0.9877 Freq:49.99Hz Lamp Flux:30390.9x1 lm		
NAME: ORCAII	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

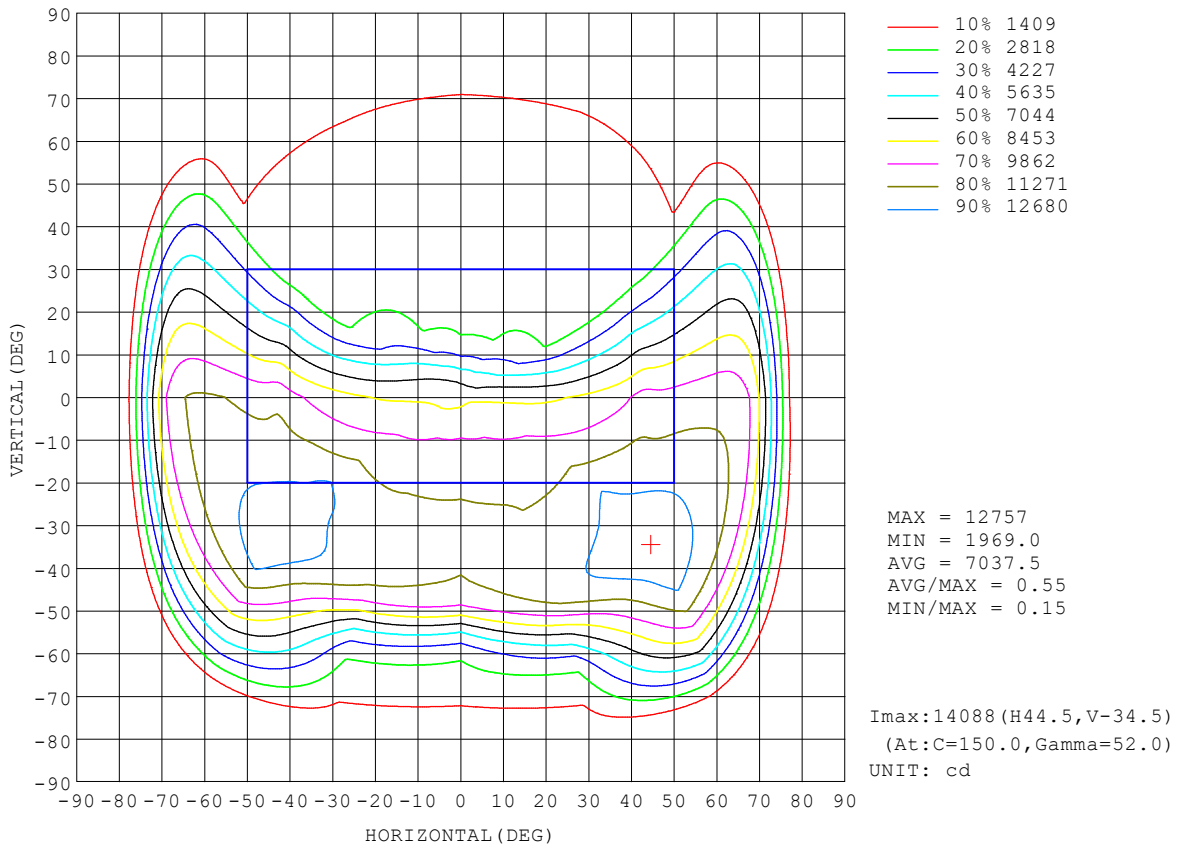
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	798.0	933.0	1002	962.3	805.4	580.1	409.1	511.1	0- 10	739.4	739.4	2.43,2.43
20	799.7	1028	1110	1083	815.3	357.4	262.8	301.6	10- 20	2041	2780	9.15,9.15
30	852.2	1110	1182	1182	882.6	258.1	252.7	248.2	20- 30	3329	6110	20.1,20.1
40	960.4	1209	1142	1270	1008	225.1	236.9	227.0	30- 40	4725	10835	35.7,35.7
50	1011	1271	918.6	1257	1062	198.4	230.7	205.8	40- 50	5993	16828	55.4,55.4
60	1056	986.2	329.2	875.5	1111	166.1	244.6	180.6	50- 60	6143	22971	75.6,75.6
70	812.5	586.6	174.7	460.3	887.3	107.3	154.5	118.8	60- 70	4986	27957	92,92
80	33.04	87.00	48.23	52.18	38.64	27.94	18.47	29.49	70- 80	2116	30072	99,99
90	1.504	0.9944	0.6631	0.9385	1.790	1.217	0.5340	1.134	80- 90	134.9	30207	99.4,99.4
100	2.669	0.7195	0.5971	0.5845	2.743	2.465	1.237	2.373	90-100	13.91	30221	99.4,99.4
110	3.670	1.145	0.8512	0.8662	3.703	3.614	2.475	3.669	100-110	21.69	30243	99.5,99.5
120	4.303	1.576	1.076	1.141	4.295	4.492	3.816	4.814	110-120	27.78	30270	99.6,99.6
130	4.742	1.997	1.229	1.384	4.679	5.011	4.894	5.687	120-130	30.51	30301	99.7,99.7
140	4.923	2.398	1.379	1.629	4.717	5.297	5.569	5.933	130-140	29.49	30330	99.8,99.8
150	4.801	2.857	1.708	1.980	4.599	5.449	5.858	5.723	140-150	25.18	30356	99.9,99.9
160	4.750	3.408	2.409	2.514	4.596	5.290	5.747	5.213	150-160	19.20	30375	99.9,99.9
170	4.728	3.997	3.356	3.158	4.642	4.979	5.114	4.584	160-170	12.01	30387	100,100
180	4.729	4.570	4.271	3.919	4.734	4.570	4.270	3.919	170-180	4.109	30391	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:2023-05-22

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

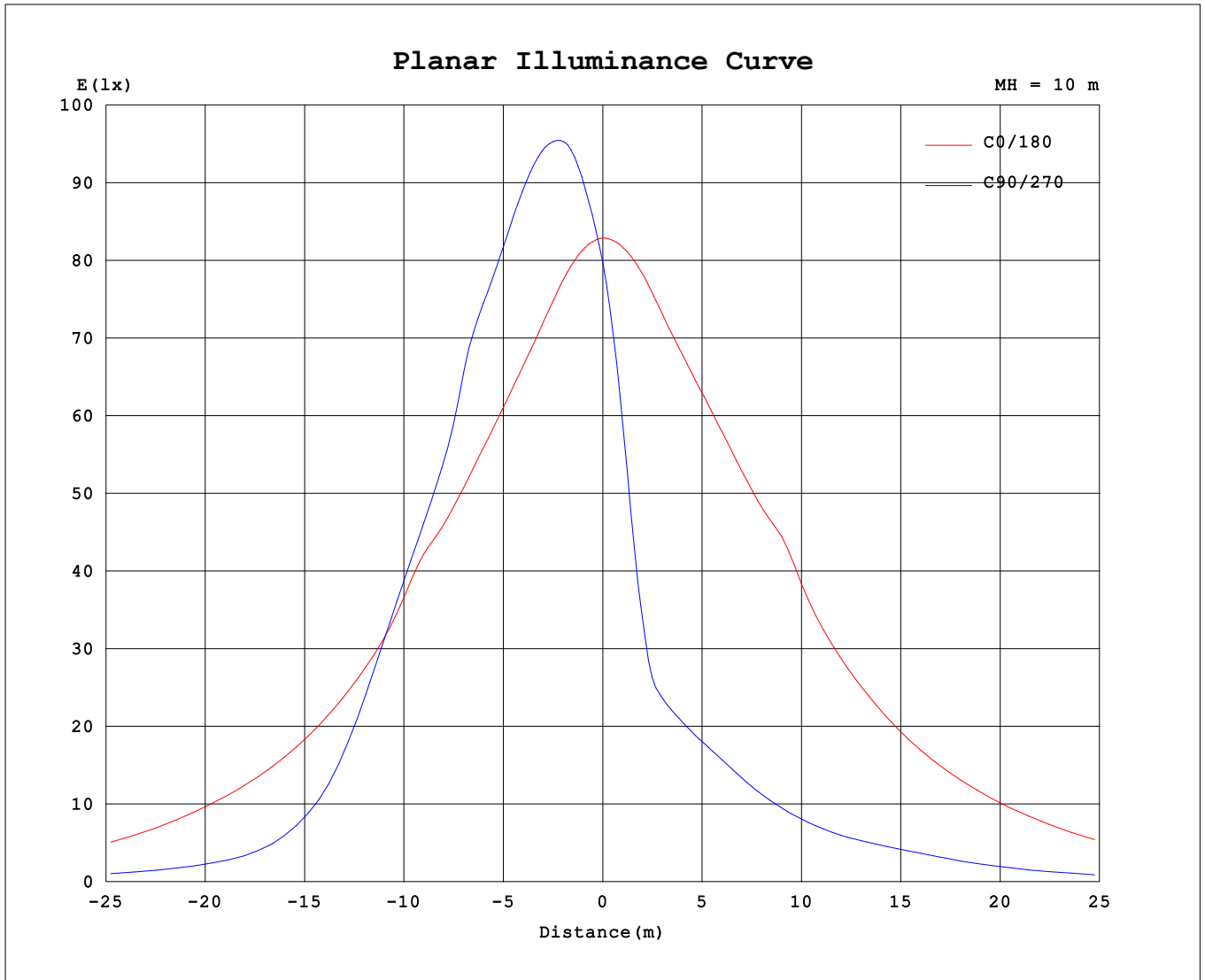
Test:U:220.12V I:0.9042A P:196.60W PF:0.9877 Freq:49.99Hz Lamp Flux:30390.9x1 lm		
NAME: ORCAII	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-05-22

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



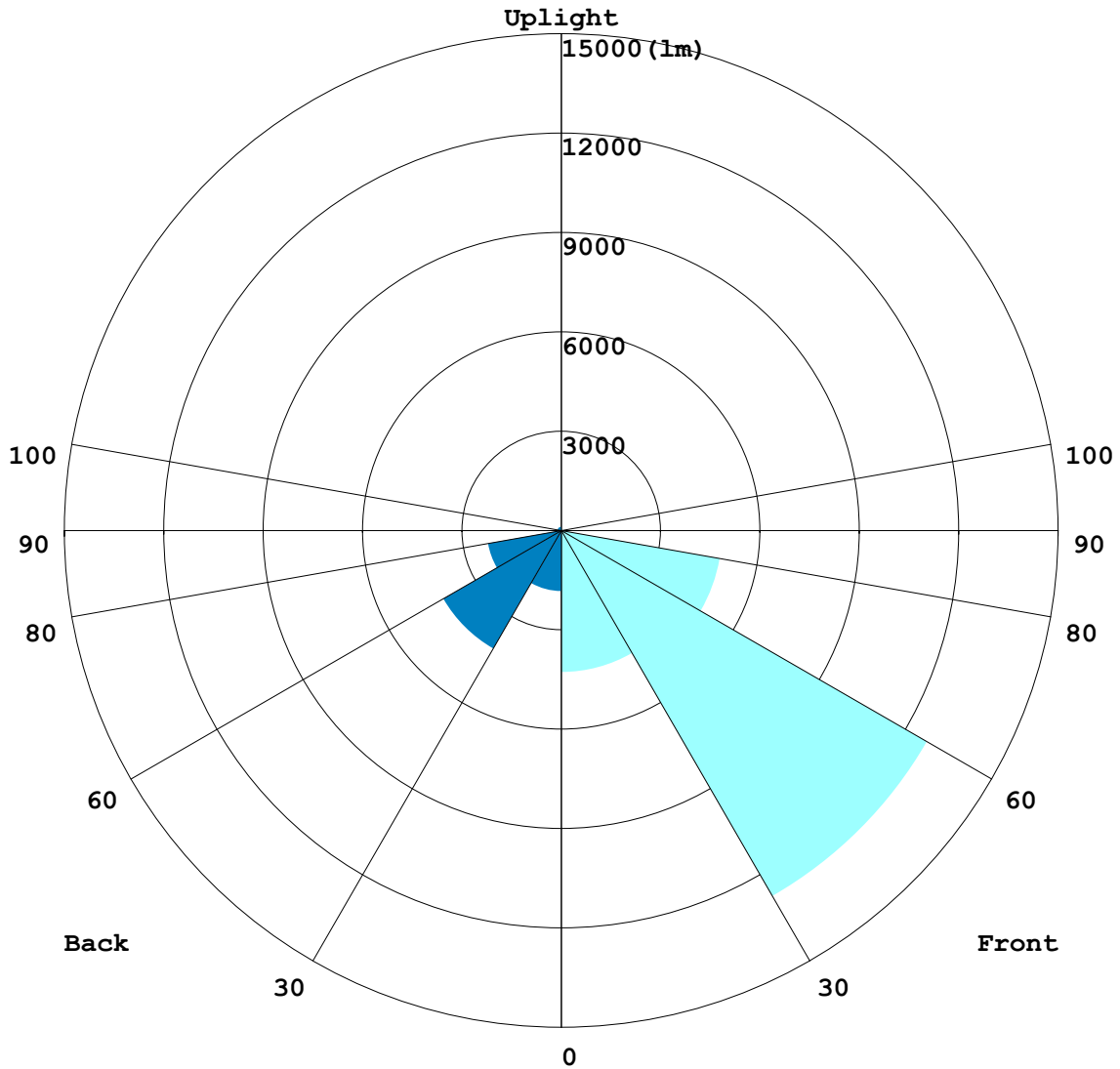
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-05-22

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:220.12V I:0.9042A P:196.60W PF:0.9877 Freq:49.99Hz		
Lamp Flux:30390.9x1 lm		
NAME: ORCAII	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:2023-05-22

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:220.12V I:0.9042A P:196.60W PF:0.9877 Freq:49.99Hz Lamp Flux:30390.9x1 lm		
NAME: ORCAII	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)	4277.8	14.1
FM - Front-Medium(30-60)	12749	42.0
FH - Front-High(60-80)	4859.1	16.0
FVH - Front-Very High(80-90)	93.668	0.3
Total Forward Light	22038	72.5

BL - Back-Low(0-30)	1832	6.0
BM - Back-Medium(30-60)	4111.4	13.5
BH - Back-High(60-80)	2242.5	7.4
BVH - Back-Very High(80-90)	41.273	0.1
Total Back Light	8352.5	27.5

UL - Uplight-Low(90-100)	13.91	0.0
UH - Uplight-High(100-180)	169.96	0.6
Total Up Light	183.87	0.6

BUG(Back,Up,Glare) Rating	B3-U3-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	8227.1	125.36	8352.5
Street Side	21980	58.516	22038

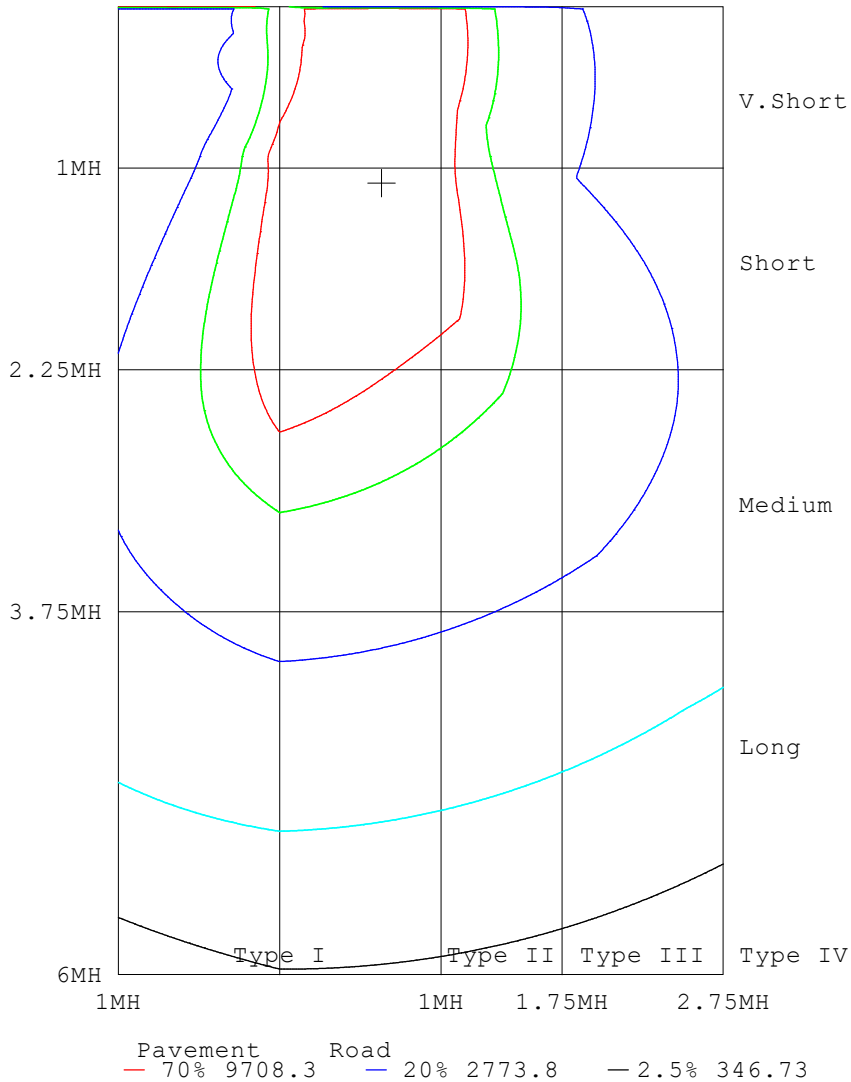
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-05-22

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:220.12V I:0.9042A P:196.60W PF:0.9877 Freq:49.99Hz Lamp Flux:30390.9x1 lm		
NAME: ORCAII	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:2023-05-22

— 50% 6934.5 — 5% 693.45

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:220.12V I:0.9042A P:196.60W PF:0.9877 Freq:49.99Hz Lamp Flux:30390.9x1 lm		
NAME: ORCAII	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	804	804	804	804	804	804	804	804	804	804	804	804							
5	802	852	890	910	903	870	805	744	680	637	648	711							
10	798	898	968	1002	993	931	805	664	496	409	436	587							
15	794	943	1025	1064	1059	992	806	560	332	280	291	448							
20	800	988	1070	1110	1111	1055	815	449	265	263	266	338							
25	820	1041	1104	1143	1149	1123	842	353	249	256	256	267							
30	852	1102	1118	1182	1166	1199	883	277	239	253	249	247							
35	896	1179	1139	1204	1191	1293	934	242	229	246	243	233							
40	960	1251	1166	1142	1192	1349	1008	230	220	237	231	223							
45	1005	1291	1192	1106	1185	1389	1053	225	212	231	220	217							
50	1011	1356	1186	919	1088	1428	1062	194	203	231	215	197							
55	1037	1378	981	567	778	1409	1092	177	189	244	212	179							
60	1056	1325	643	329	463	1293	1111	157	175	245	206	155							
65	1030	1199	365	240	279	1054	1088	129	155	209	183	127							
70	812	950	218	175	198	725	887	93.9	121	154	140	97.5							
75	313	564	130	105	125	346	382	60.2	75.8	83.6	86.2	63.4							
80	33.0	109	64.6	48.2	63.5	40.7	38.6	27.3	28.6	18.5	29.9	29.0							
85	6.78	10.3	18.2	5.79	16.4	9.21	8.32	5.46	1.80	0.36	1.46	5.89							
90	1.50	0.97	1.02	0.66	1.07	0.81	1.79	1.68	0.75	0.53	0.63	1.64							
95	2.06	0.67	0.49	0.48	0.53	0.46	2.16	2.39	1.21	0.81	1.05	2.35							
100	2.67	0.91	0.53	0.60	0.59	0.58	2.74	3.12	1.81	1.24	1.63	3.12							
105	3.24	1.20	0.65	0.73	0.71	0.74	3.29	3.69	2.45	1.81	2.32	3.77							
110	3.67	1.50	0.78	0.85	0.83	0.90	3.70	4.16	3.07	2.48	3.04	4.30							
115	4.00	1.80	0.91	0.97	0.94	1.07	4.01	4.57	3.62	3.17	3.72	4.82							
120	4.30	2.11	1.04	1.08	1.04	1.24	4.29	4.87	4.11	3.82	4.32	5.31							
125	4.55	2.41	1.16	1.16	1.13	1.41	4.53	5.00	4.54	4.38	4.88	5.72							
130	4.74	2.68	1.30	1.23	1.21	1.56	4.68	5.11	4.91	4.89	5.41	5.97							
135	4.90	2.91	1.48	1.30	1.29	1.72	4.75	5.21	5.16	5.31	5.82	5.99							
140	4.92	3.09	1.69	1.38	1.37	1.89	4.72	5.28	5.31	5.57	6.02	5.85							
145	4.86	3.28	1.95	1.50	1.51	2.06	4.65	5.33	5.48	5.72	6.04	5.68							
150	4.80	3.47	2.24	1.71	1.71	2.25	4.60	5.29	5.61	5.86	5.98	5.47							
155	4.77	3.66	2.58	2.01	1.99	2.46	4.59	5.20	5.60	5.89	5.81	5.19							
160	4.75	3.85	2.96	2.41	2.34	2.69	4.60	5.10	5.48	5.75	5.52	4.90							
165	4.73	4.05	3.35	2.87	2.72	2.93	4.61	4.99	5.29	5.46	5.18	4.62							
170	4.73	4.23	3.76	3.36	3.10	3.21	4.64	4.89	5.07	5.11	4.81	4.36							
175	4.74	4.44	4.14	3.81	3.52	3.54	4.70	4.78	4.81	4.70	4.40	4.11							
180	4.73	4.64	4.50	4.27	3.97	3.86	4.73	4.63	4.50	4.27	3.98	3.86							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-05-22

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: