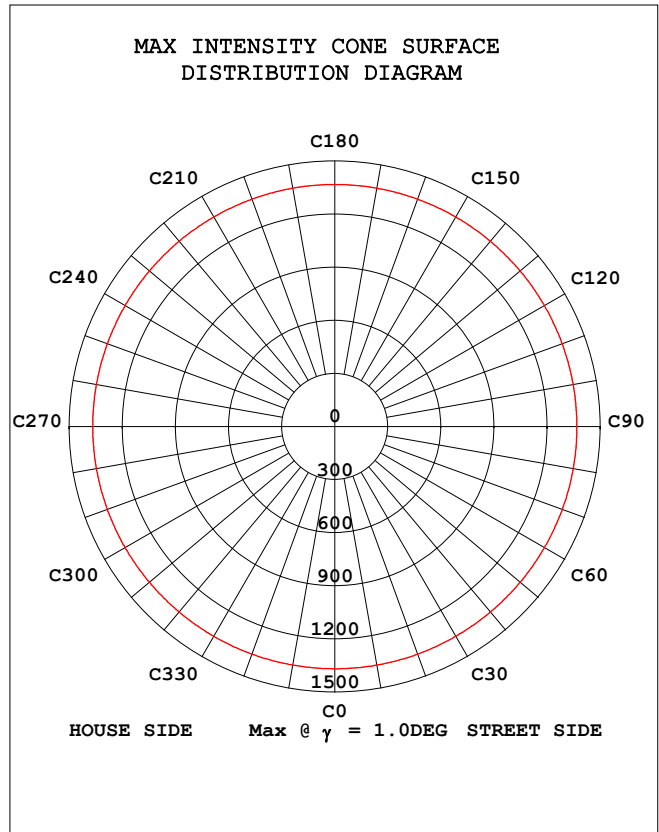
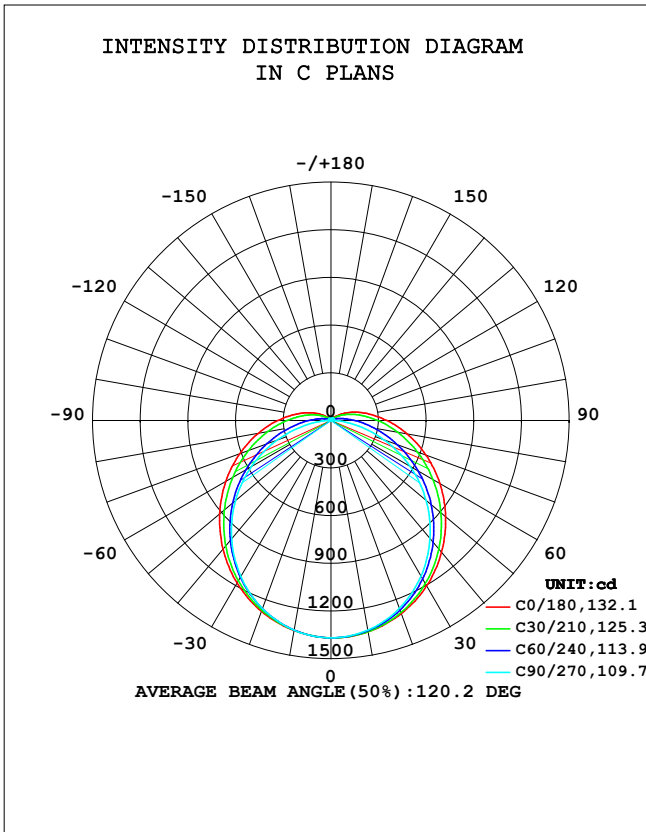


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.46V I:0.1528A P:34.726W PF:0.9847 Freq:0Hz Lamp Flux:4882.08x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A20
MFR.:	SUR.:0.1*1.2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.59 lm/W			
MODEL	WP36W-CC	I _{max} (cd)	1369	η street_up (%)	4.2
NOMINAL POWER (W)	36	LOR (%)	100.0	η street_down (%)	45.8
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	4882	η house_up (%)	4.2
NOMINAL FLUX (lm)	4882.08	MAXIMUM @ (C, γ)	15,1.0	η house_down (%)	45.7
LAMPS INSIDE	1	η up (%)	8.4	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)		η down (%)	91.6	SLI	21.488

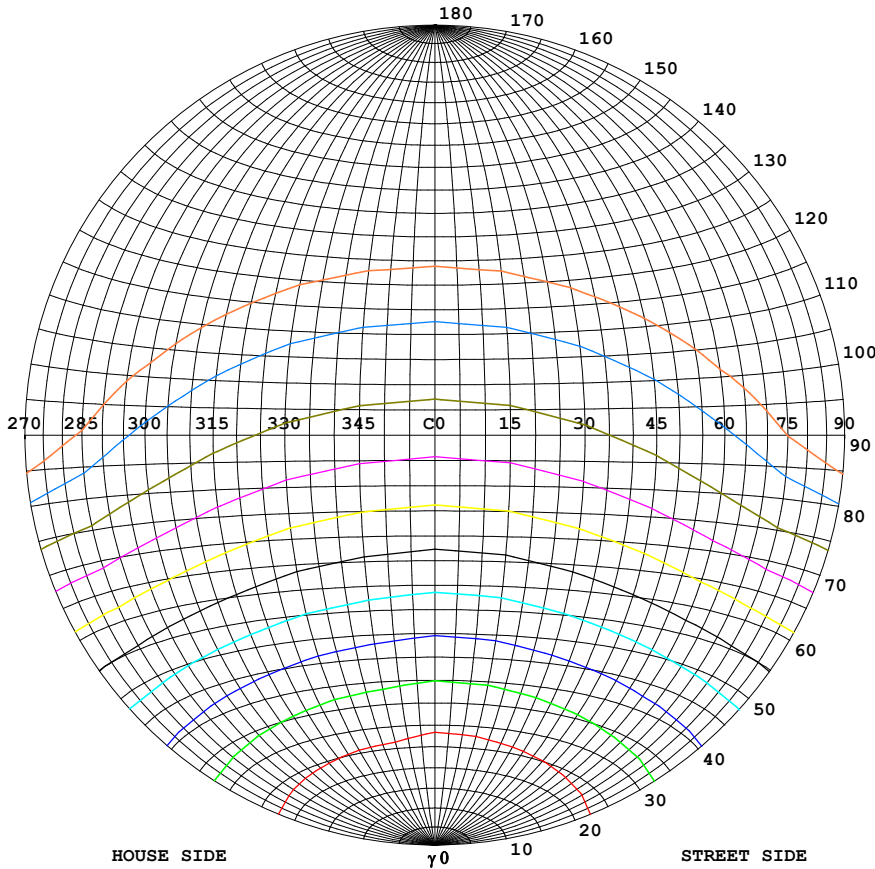


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: NEIKO
Test Date: 2021-07-08

γ Range: 0 - 160DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.421
Humidity: 65.0%
Test Distance: 8.396m [K=1.0000]
Remarks: 6000K

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.46V I:0.1528A P:34.726W PF:0.9847 Freq:0Hz Lamp Flux:4882.08x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A20
MFR.:	SUR.:0.1*1.2	Shielding Angle:



Classification:

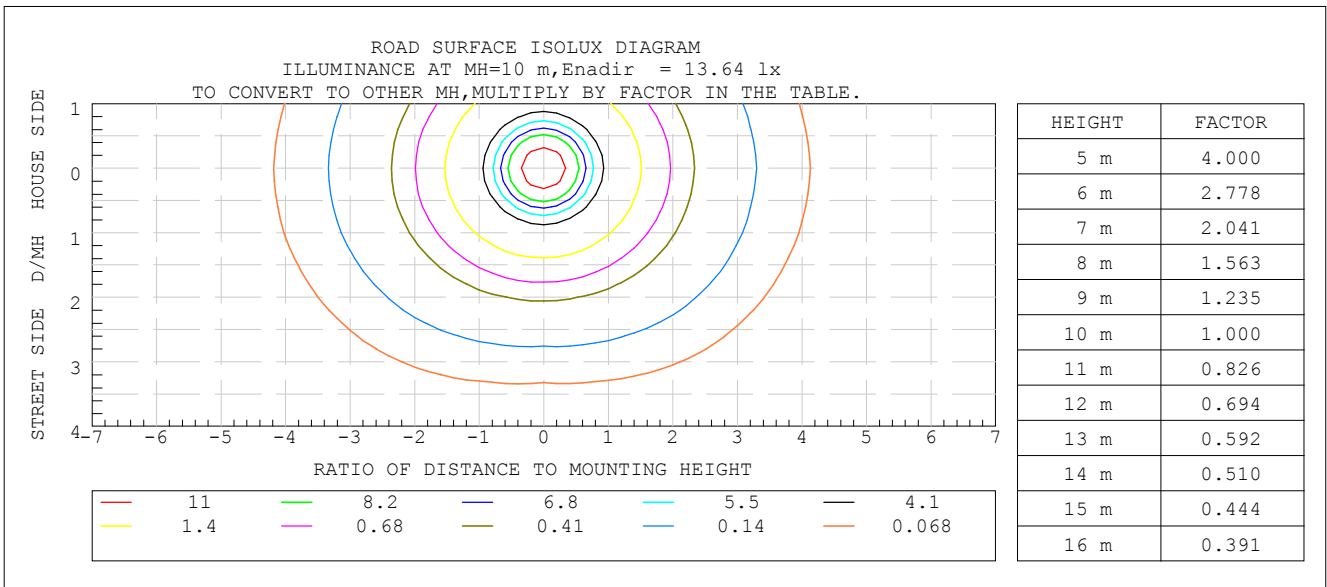
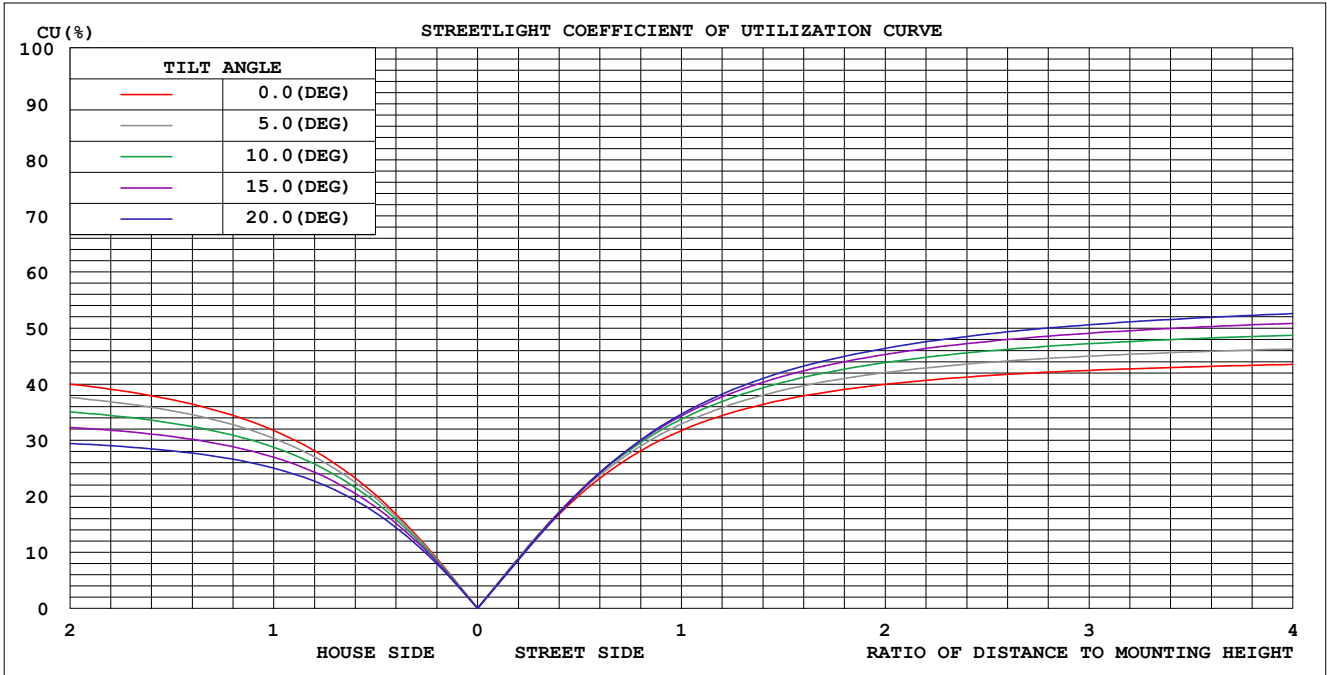
IES:Type II - Very Short
 CIE:Narrow - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:99.51cd/klm
 Max.At90:72.22cd/klm
 Max.80-90:99.51cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	1369
90%	1232
80%	1095
70%	958
60%	821
50%	684
40%	547
30%	411
20%	274
10%	137
5%	68

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:NEIKO
 Test Date:2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.396m [K=1.0000]
 Remarks: 6000K

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: NEIKO
Test Date: 2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.421
Humidity: 65.0%
Test Distance: 8.396m [K=1.0000]
Remarks: 6000K

ZONAL FLUX DIAGRAM

Test:U:230.46V I:0.1528A P:34.726W PF:0.9847 Freq:0Hz Lamp Flux:4882.08x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A20
MFR.:	SUR.:0.1*1.2	Shielding Angle:

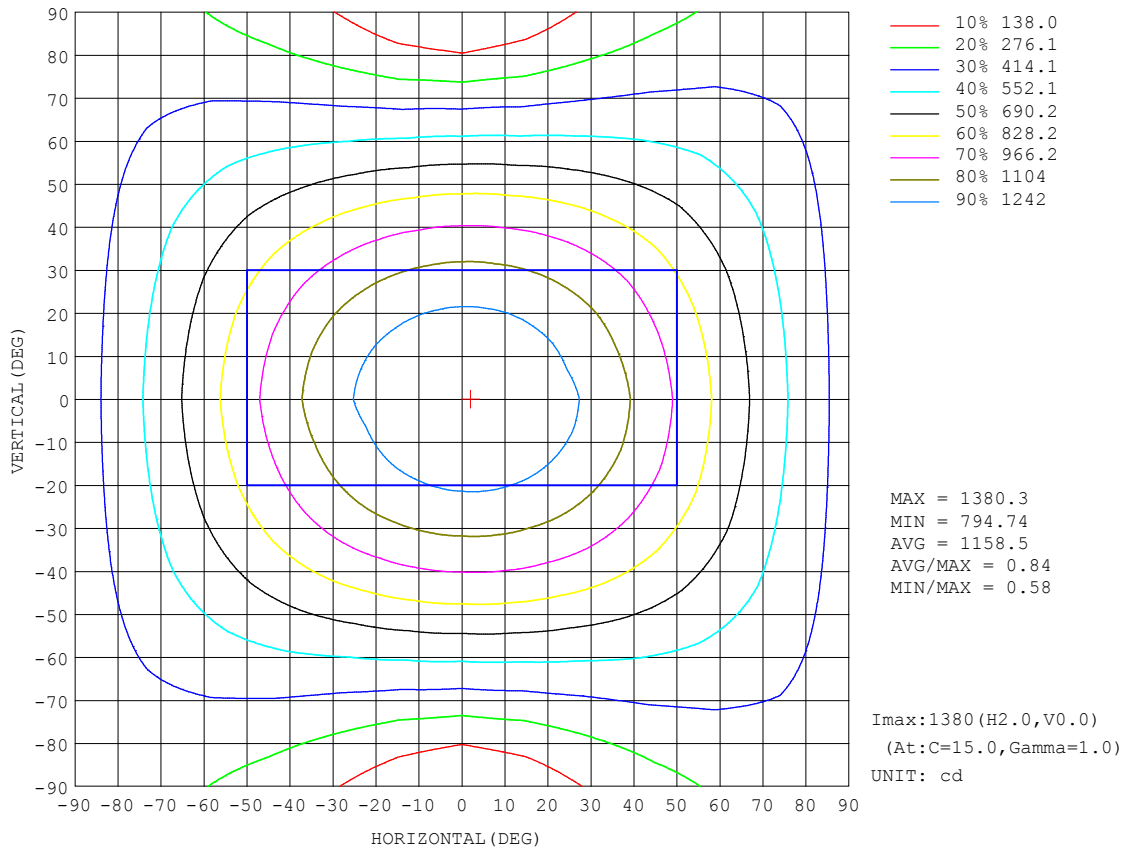
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1351	1348	1340	1340	1343	1340	1341	1348	0- 10	129.4	129.4	2.65,2.65
20	1295	1280	1259	1266	1279	1265	1261	1280	10- 20	370.8	500.3	10.2,10.2
30	1204	1172	1133	1153	1182	1151	1135	1172	20- 30	563.6	1064	21.8,21.8
40	1084	1030	970.7	1009	1057	1007	973.1	1032	30- 40	685.4	1749	35.8,35.8
50	943.1	865.3	781.6	842.9	914.7	839.3	784.7	867.9	40- 50	725.3	2475	50.7,50.7
60	791.3	689.5	573.4	668.8	763.6	663.8	577.0	693.8	50- 60	686.4	3161	64.7,64.7
70	636.2	516.3	353.4	499.0	610.4	492.4	357.9	521.7	60- 70	582.3	3743	76.7,76.7
80	485.8	358.1	143.2	345.5	464.0	337.2	146.3	364.2	70- 80	437.5	4181	85.6,85.6
90	352.6	229.9	22.25	221.4	335.4	213.9	22.12	236.3	80- 90	290.0	4471	91.6,91.6
100	242.0	138.3	17.66	133.1	229.0	126.5	17.10	143.6	90-100	180.8	4651	95.3,95.3
110	154.8	75.65	15.54	72.46	145.6	67.36	15.10	79.75	100-110	107.4	4759	97.5,97.5
120	88.26	34.33	14.55	33.09	81.87	29.69	14.08	36.92	110-120	57.96	4817	98.7,98.7
130	40.98	19.57	14.77	18.62	36.96	18.11	14.24	19.06	120-130	28.27	4845	99.2,99.2
140	23.87	19.49	16.49	18.82	20.74	18.47	15.79	18.57	130-140	15.37	4860	99.6,99.6
150	22.70	19.82	18.37	19.36	20.49	19.01	17.75	18.94	140-150	12.09	4873	99.8,99.8
160	21.93	20.56	19.98	19.72	20.31	19.50	19.51	19.79	150-160	9.134	4882	100,100
170	0	0	0	0	0	0	0	0	160-170	0.3666	4882	100,100
180	0	0	0	0	0	0	0	0	170-180	0	4882	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:NEIKO
 Test Date:2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.396m [K=1.0000]
 Remarks: 6000K

ISOCANDELA DIAGRAM

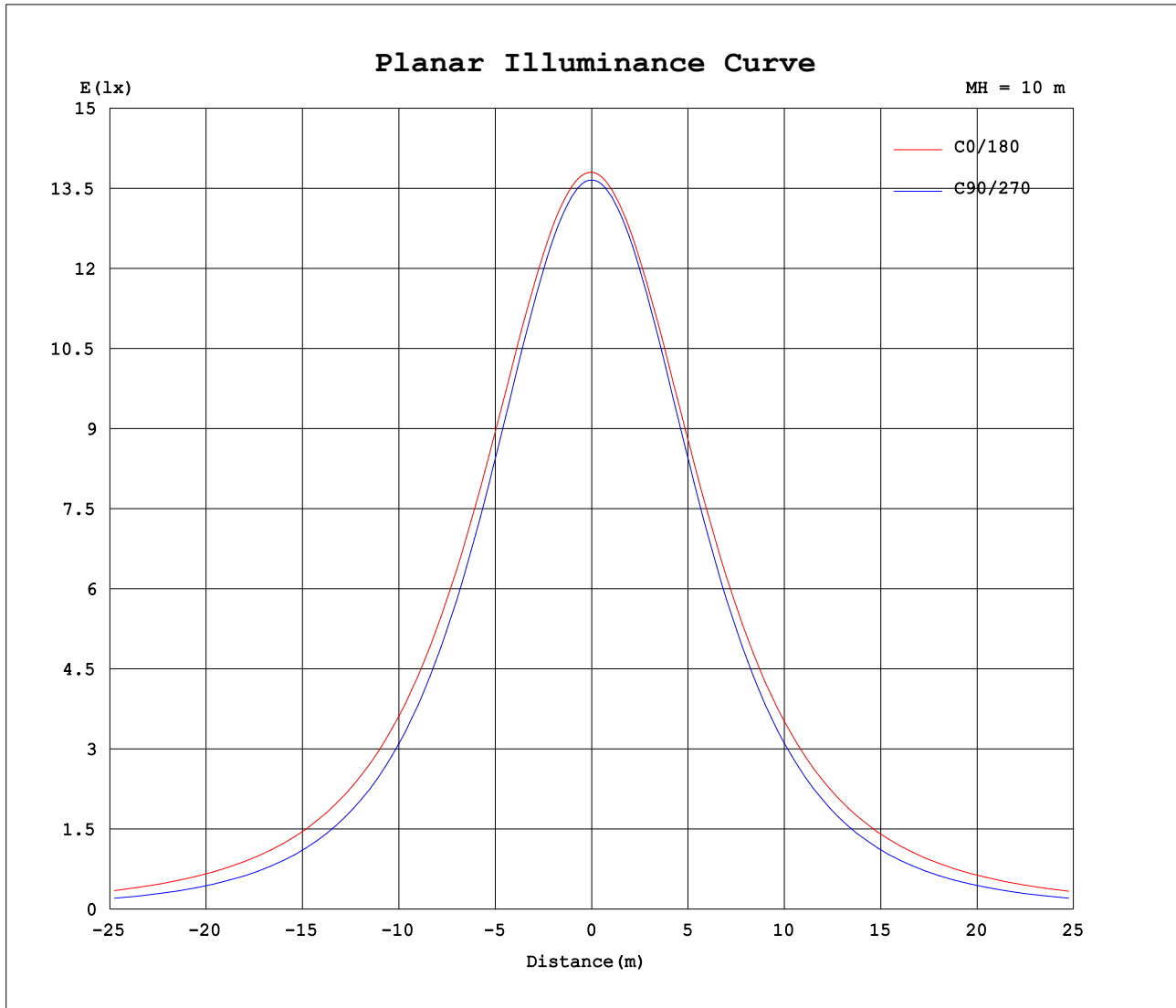
Test:U:230.46V I:0.1528A P:34.726W PF:0.9847 Freq:0Hz Lamp Flux:4882.08x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A20
MFR.:	SUR.:0.1*1.2	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:NEIKO
 Test Date:2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.396m [K=1.0000]
 Remarks: 6000K

Planar Illuminance Curve



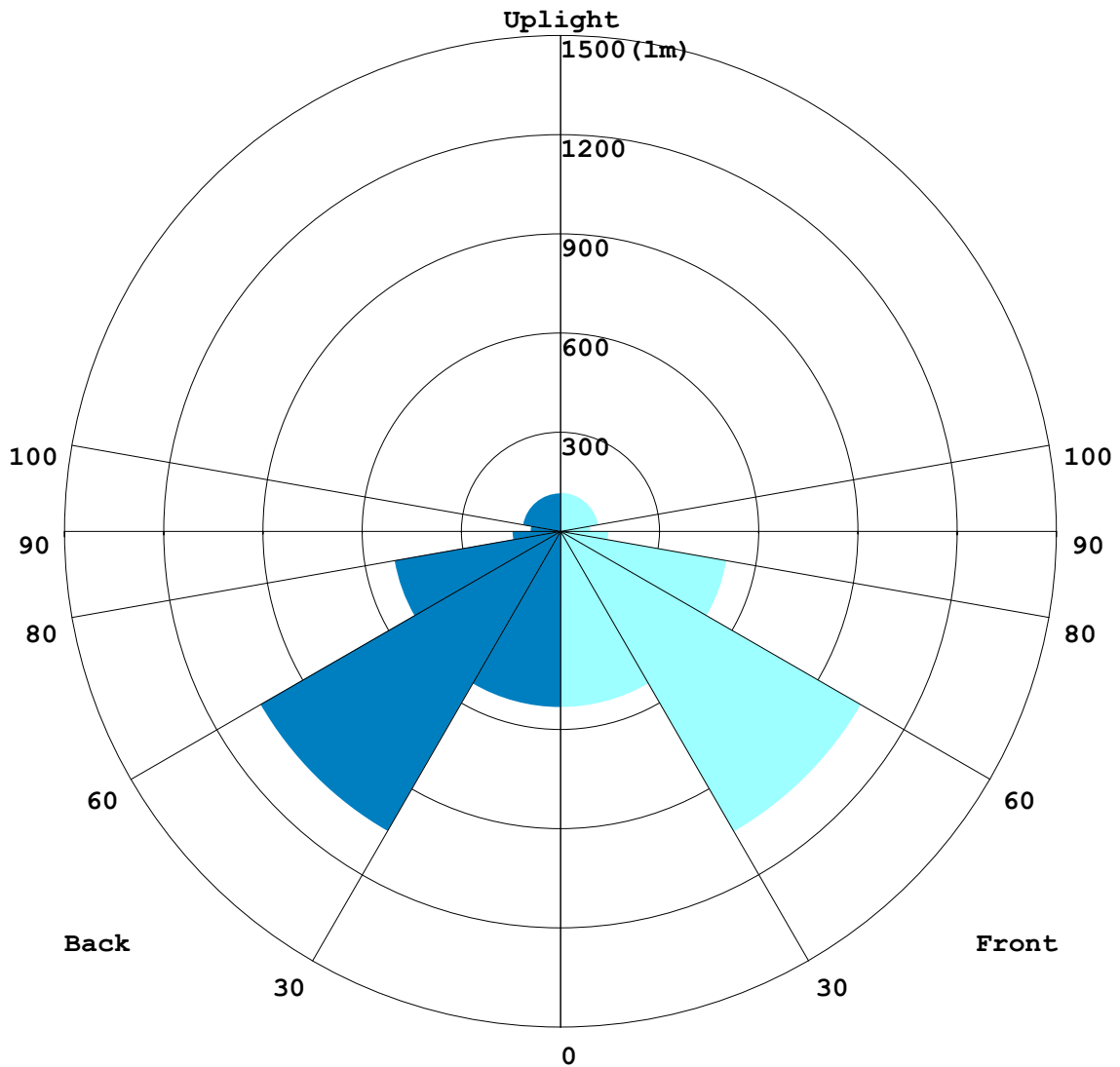
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:NEIKO
Test Date:2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:8.396m [K=1.0000]
Remarks: 6000K

LCS REPORT

Test:U:230.46V I:0.1528A P:34.726W PF:0.9847 Freq:0Hz Lamp Flux:4882.08x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A20
MFR.:	SUR.:0.1*1.2	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:NEIKO
 Test Date:2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.396m [K=1.0000]
 Remarks: 6000K

BUG REPORT

Test:U:230.46V I:0.1528A P:34.726W PF:0.9847 Freq:0Hz Lamp Flux:4882.08x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A20
MFR.:	SUR.:0.1*1.2	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	532.16	10.9
FM - Front-Medium(30-60)	1049.5	21.5
FH - Front-High(60-80)	510.58	10.5
FVH - Front-Very High(80-90)	145.38	3.0
Total Forward Light	2444.7	50.1

BL - Back-Low(0-30)	531.72	10.9
BM - Back-Medium(30-60)	1047.6	21.5
BH - Back-High(60-80)	509.21	10.4
BVH - Back-Very High(80-90)	144.6	3.0
Total Back Light	2437.4	49.9

UL - Uplight-Low(90-100)	180.76	3.7
UH - Uplight-High(100-180)	230.59	4.7
Total Up Light	411.35	8.4

BUG(Back,Up,Glare) Rating	B2-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2233.1	204.28	2437.4
Street Side	2237.6	207.07	2444.7

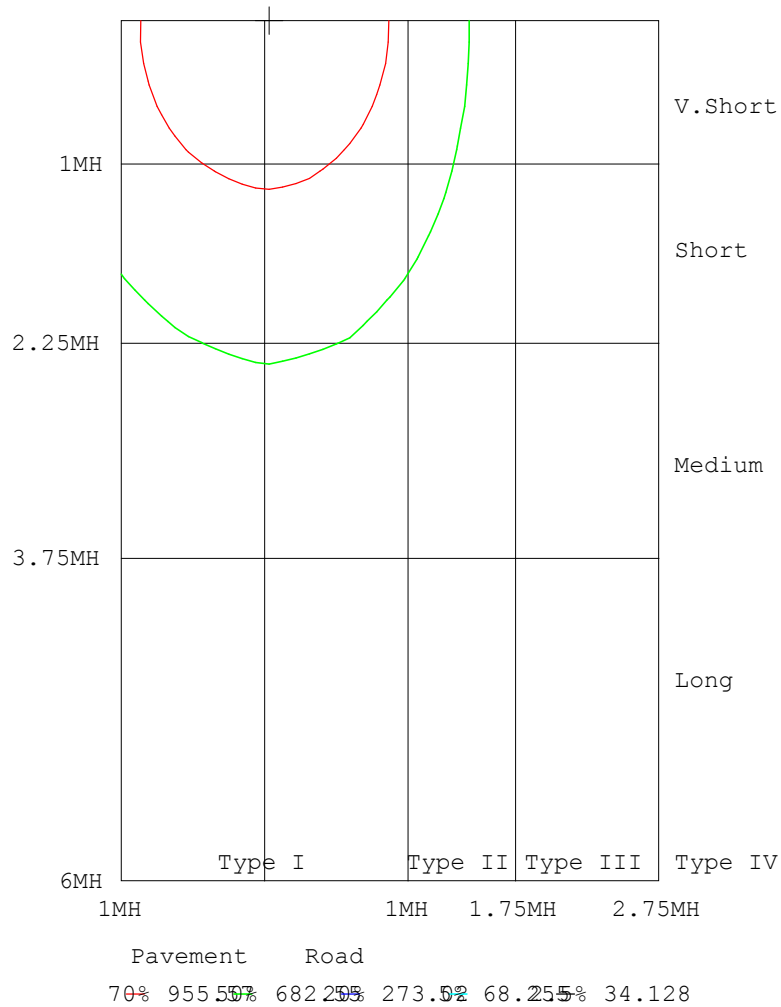
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:NEIKO
Test Date:2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:8.396m [K=1.0000]
Remarks: 6000K

ROAD ISOCANDELA REPORT

Test:U:230.46V I:0.1528A P:34.726W PF:0.9847 Freq:0Hz Lamp Flux:4882.08x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A20
MFR.:	SUR.:0.1*1.2	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:NEIKO
 Test Date:2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.396m [K=1.0000]
 Remarks: 6000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.46V I:0.1528A P:34.726W PF:0.9847 Freq:0Hz Lamp Flux:4882.08x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A20
MFR.:	SUR.:0.1*1.2	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368	1368
5	1365	1366	1365	1364	1363	1362	1361	1360	1360	1360	1360	1360	1361	1360	1360	1360	1360	1361	1361
10	1351	1352	1350	1348	1345	1343	1340	1339	1339	1340	1341	1342	1343	1342	1341	1340	1339	1339	1341
15	1327	1328	1324	1320	1314	1310	1306	1305	1306	1308	1311	1314	1315	1313	1312	1308	1306	1305	1307
20	1295	1294	1288	1280	1271	1264	1259	1259	1261	1266	1271	1276	1279	1276	1272	1265	1261	1259	1261
25	1253	1252	1242	1230	1217	1208	1201	1201	1205	1214	1223	1231	1234	1230	1223	1213	1206	1201	1203
30	1204	1201	1188	1172	1153	1141	1133	1134	1140	1153	1166	1177	1182	1176	1166	1151	1140	1133	1135
35	1147	1143	1126	1105	1081	1065	1056	1058	1066	1084	1102	1117	1123	1116	1102	1082	1067	1057	1058
40	1084	1078	1057	1030	1001	982	971	974	986	1009	1031	1050	1057	1049	1031	1007	986	973	973
45	1015	1008	982	950	915	891	879	883	900	928	956	978	987	976	955	925	899	882	882
50	943	934	903	865	825	796	782	787	809	843	876	904	915	902	875	839	808	786	785
55	868	858	823	777	730	696	680	688	715	756	796	828	840	826	795	751	714	686	683
60	791	780	741	690	633	592	573	585	619	669	715	750	764	748	713	664	617	583	577
65	714	701	659	602	537	487	464	481	524	583	635	673	687	670	632	577	521	478	468
70	636	622	578	516	444	383	353	377	432	499	555	596	610	593	552	492	429	374	358
75	560	545	500	434	355	281	245	278	346	419	479	521	536	517	475	412	341	273	248
80	486	472	425	358	274	190	143	190	268	345	407	449	464	446	403	337	261	184	146
85	416	402	357	289	205	117	61.5	119	201	279	340	382	397	379	337	271	193	111	63.4
90	353	339	295	230	149	67.7	22.2	70.6	147	221	281	321	335	318	276	214	139	63.4	22.1
95	294	281	240	180	107	40.5	19.2	42.9	105	173	229	266	279	263	224	166	98.7	37.3	18.6
100	242	230	193	138	75.3	25.8	17.7	27.0	74.6	133	183	217	229	214	179	126	68.6	23.2	17.1
105	196	185	152	104	51.7	19.0	16.5	18.6	51.2	99.9	144	174	185	172	140	93.9	46.1	16.9	16.0
110	155	145	116	75.6	33.7	17.6	15.5	16.7	33.8	72.5	110	136	146	134	106	67.4	29.8	15.8	15.1
115	119	111	86.1	52.9	21.7	16.6	14.9	15.8	21.6	50.4	80.9	103	111	101	78.0	46.1	18.9	15.0	14.5
120	88.3	81.3	61.1	34.3	18.4	15.8	14.5	15.3	17.4	33.1	56.9	75.3	81.9	73.4	54.4	29.7	16.6	14.6	14.1
125	62.3	56.7	40.9	21.3	17.6	15.5	14.5	15.0	16.9	21.2	37.6	51.9	57.1	50.3	35.5	19.4	16.2	14.5	14.0
130	41.0	36.8	25.3	19.6	17.3	15.6	14.8	15.1	16.8	18.6	23.5	33.1	37.0	31.8	22.1	18.1	16.3	14.6	14.2
135	26.4	24.9	21.7	19.4	17.5	16.2	15.5	15.6	16.9	18.5	19.9	21.9	23.1	21.3	19.6	18.2	16.7	15.2	14.9
140	23.9	23.6	21.0	19.5	18.0	17.1	16.5	16.4	17.5	18.8	19.8	20.6	20.7	20.4	19.6	18.5	17.2	16.0	15.8
145	23.2	23.1	20.8	19.6	18.5	17.9	17.4	17.2	18.0	19.1	19.9	20.5	20.6	20.3	19.7	18.8	17.7	16.9	16.7
150	22.7	22.1	20.7	19.8	19.1	18.7	18.4	17.9	18.5	19.4	20.0	20.4	20.5	20.3	19.8	19.0	18.3	17.6	17.7
155	22.3	21.4	20.6	20.1	19.8	19.5	19.2	18.6	18.9	19.6	20.0	20.3	20.4	20.2	19.9	19.3	18.8	18.4	18.7
160	21.9	21.1	20.6	20.6	20.4	20.2	20.0	19.3	19.3	19.7	20.0	20.2	20.3	20.1	19.9	19.5	19.2	19.1	19.5
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:NEIKO
 Test Date:2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.396m [K=1.0000]
 Remarks: 6000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.46V I:0.1528A P:34.726W PF:0.9847 Freq:0Hz Lamp Flux:4882.08x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A20
MFR.:	SUR.:0.1*1.2	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1368	1368	1368	1368	1368														
5	1362	1363	1364	1365	1365														
10	1342	1345	1348	1350	1351														
15	1309	1315	1320	1325	1327														
20	1264	1273	1280	1289	1294														
25	1208	1219	1231	1244	1251														
30	1141	1156	1172	1190	1201														
35	1066	1084	1106	1129	1143														
40	982	1005	1032	1061	1078														
45	892	920	952	986	1008														
50	797	830	868	908	935														
55	698	736	781	828	859														
60	595	641	694	747	781														
65	491	545	607	665	702														
70	387	452	522	584	624														
75	287	364	440	506	547														
80	198	283	364	432	473														
85	124	214	296	363	404														
90	73.8	157	236	301	341														
95	44.8	114	186	246	283														
100	28.4	81.4	144	198	232														
105	19.4	56.6	109	156	187														
110	17.4	37.6	79.7	120	147														
115	16.4	24.0	56.4	89.8	112														
120	15.6	18.2	36.9	64.2	82.5														
125	15.3	17.3	22.6	43.4	57.8														
130	15.2	16.9	19.1	26.5	37.6														
135	15.5	16.9	18.6	21.1	25.0														
140	16.3	17.3	18.6	20.1	23.4														
145	17.1	17.8	18.7	19.9	22.4														
150	17.9	18.4	18.9	19.8	21.8														
155	18.9	19.1	19.2	19.9	20.9														
160	19.6	19.8	19.8	19.9	20.5														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:NEIKO
 Test Date:2021-07-08

γ Range: 0 - 160DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:8.396m [K=1.0000]
 Remarks: 6000K