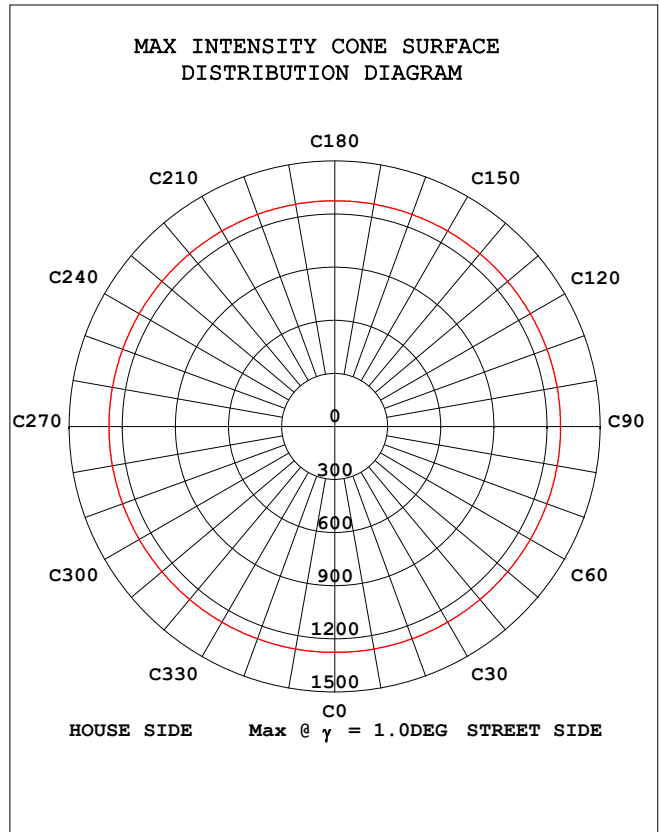
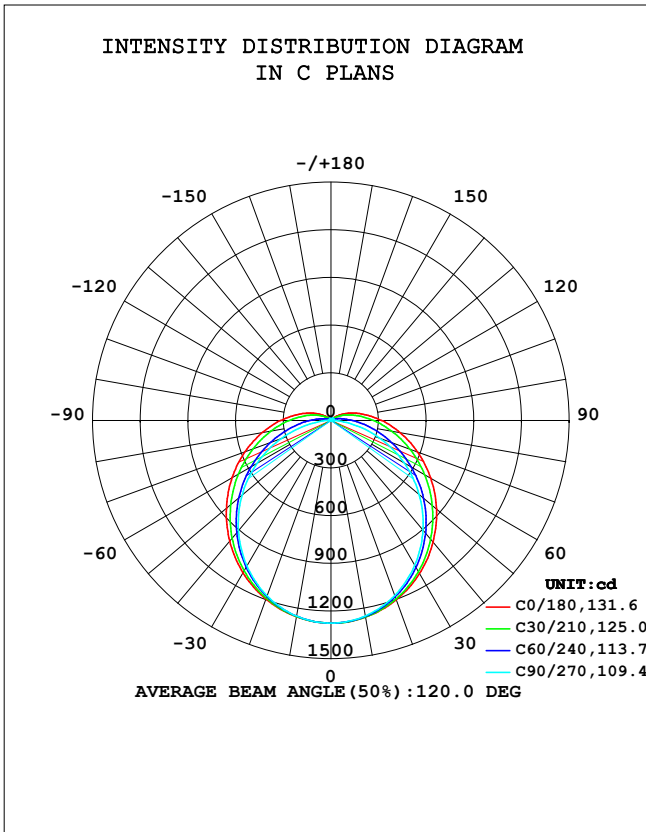


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.55V I:0.1587A P:36.096W PF:0.9853 Freq:0Hz Lamp Flux:4528x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A30
MFR.:	SUR.:0.1*1.2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.44 lm/W			
MODEL	WP36W-CC	I _{max} (cd)	1276	η street_up (%)	4.1
NOMINAL POWER (W)	36	LOR (%)	100.0	η street_down (%)	45.8
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	4528	η house_up (%)	4.1
NOMINAL FLUX (lm)	4528	MAXIMUM @ (C, γ)	345,1.0	η house_down (%)	45.9
LAMPS INSIDE	1	η up (%)	8.2	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)		η down (%)	91.8	SLI	21.350

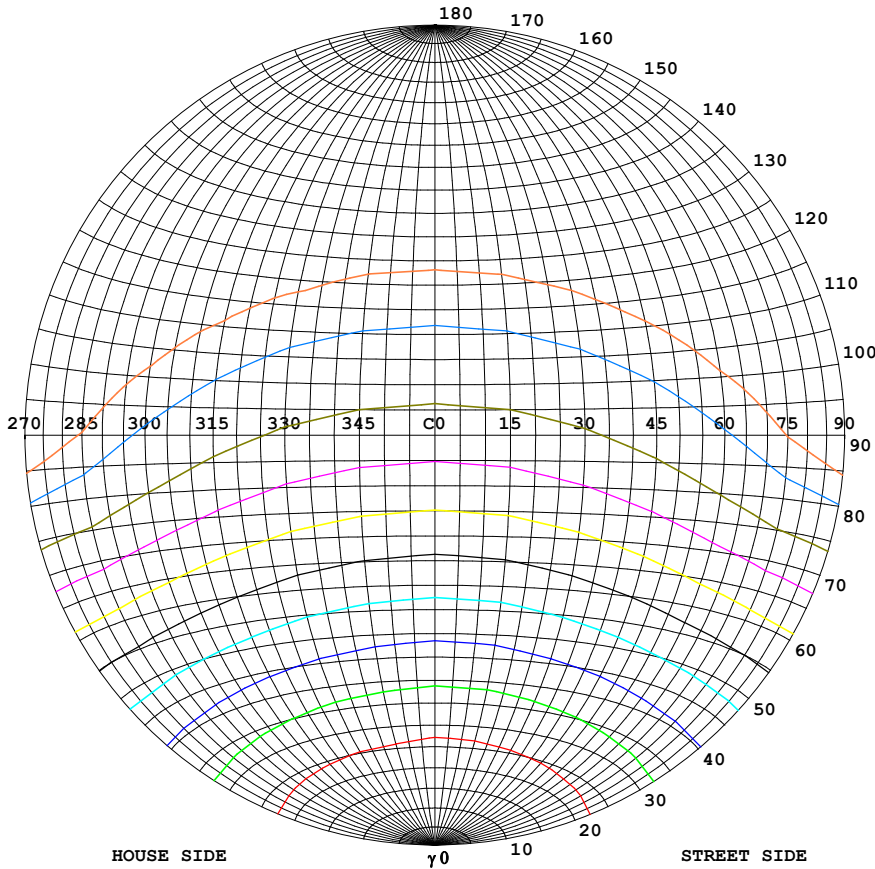


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: NEIKO
 Test Date: 2021-07-08

γ Range: 0 - 150DEG
 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: 3000K

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.55V I:0.1587A P:36.096W PF:0.9853 Freq:0Hz Lamp Flux:4528x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A30
MFR.:	SUR.:0.1*1.2	Shielding Angle:



Classification:

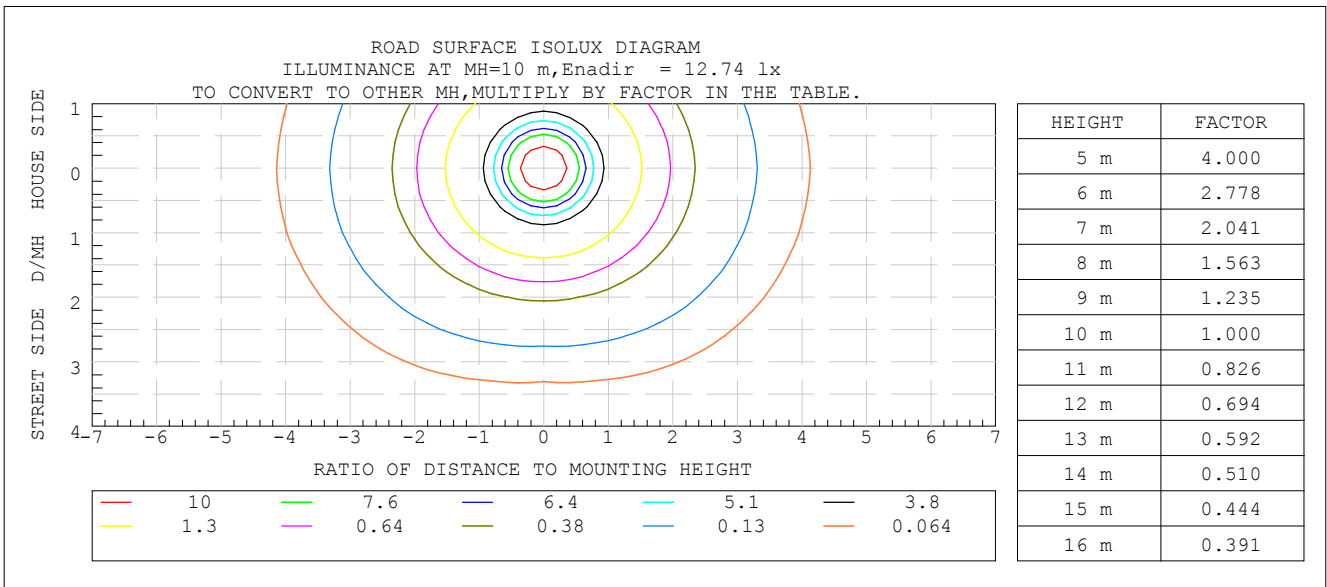
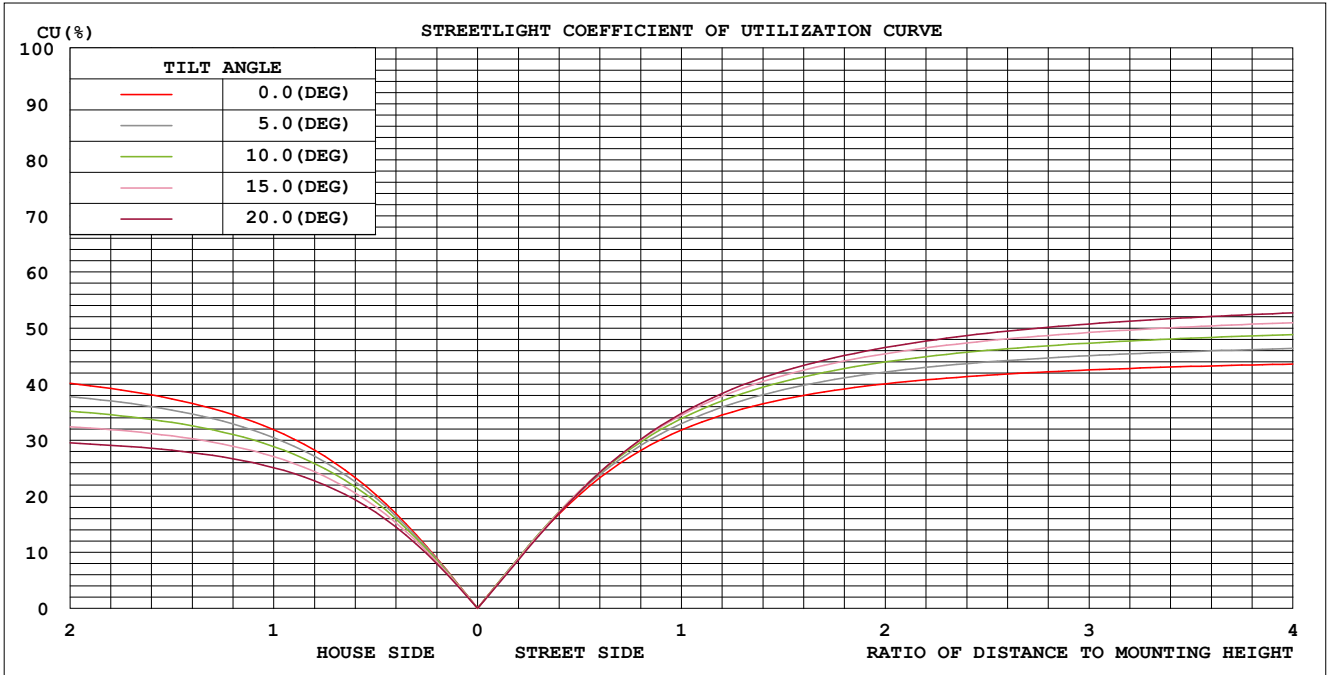
IES:Type II - Very Short
 CIE:Narrow - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:97.58cd/klm
 Max.At90:70.53cd/klm
 Max.80-90:97.58cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	1276
90%	1149
80%	1021
70%	893
60%	766
50%	638
40%	510
30%	383
20%	255
10%	128
5%	64

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

γ Range: 0 - 150DEG
 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: 3000K

**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 - 150DEG
 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: 3000K

ZONAL FLUX DIAGRAM

Test:U:230.55V I:0.1587A P:36.096W PF:0.9853 Freq:0Hz Lamp Flux:4528x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A30
MFR.:	SUR.:0.1*1.2	Shielding Angle:

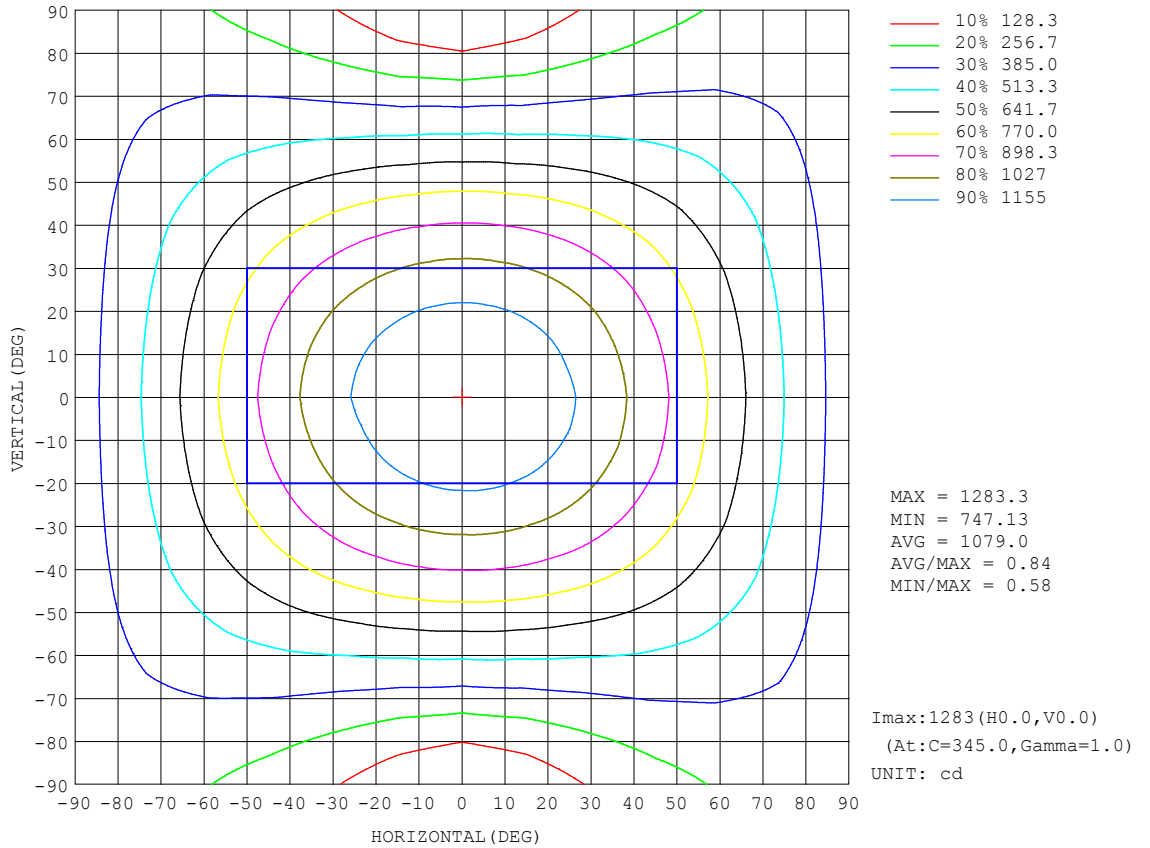
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1257	1255	1249	1251	1254	1252	1251	1256	0- 10	120.7	120.7	2.67,2.67
20	1202	1190	1173	1183	1197	1184	1176	1191	10- 20	345.8	466.5	10.3,10.3
30	1115	1086	1054	1078	1108	1079	1058	1088	20- 30	525.2	991.8	21.9,21.9
40	1000	953.1	902.0	943.1	992.4	944.3	906.5	954.9	30- 40	638.1	1630	36,36
50	867.6	798.1	725.2	787.9	859.4	788.7	730.5	800.4	40- 50	674.6	2305	50.9,50.9
60	725.5	634.2	530.8	625.2	718.5	625.2	536.7	637.5	50- 60	637.7	2942	65,65
70	580.5	473.1	326.5	466.5	575.4	464.9	332.0	477.1	60- 70	540.3	3482	76.9,76.9
80	441.8	327.3	131.5	322.4	438.0	319.9	135.7	331.2	70- 80	405.2	3888	85.9,85.9
90	319.4	209.5	20.17	207.1	316.6	203.8	20.76	213.6	80- 90	268.2	4156	91.8,91.8
100	218.4	125.8	16.31	124.8	217.1	121.3	16.01	129.0	90-100	167.1	4323	95.5,95.5
110	138.9	68.53	14.48	68.35	138.9	65.50	13.92	69.38	100-110	99.29	4422	97.7,97.7
120	78.71	31.14	13.65	31.50	78.89	29.58	12.89	31.61	110-120	53.54	4476	98.8,98.8
130	36.09	18.33	13.87	17.38	36.25	17.12	13.10	17.25	120-130	26.12	4502	99.4,99.4
140	21.97	18.28	15.49	17.73	19.44	17.29	14.59	16.93	130-140	14.22	4516	99.7,99.7
150	21.01	18.60	17.24	18.28	19.28	17.83	16.50	17.50	140-150	11.28	4528	100,100
160	0	0	0	0	0	0	0	0	150-160	0.4915	4528	100,100
170	0	0	0	0	0	0	0	0	160-170	0	4528	100,100
180	0	0	0	0	0	0	0	0	170-180	0	4528	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 - 150DEG
 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: 3000K

ISOCANDELA DIAGRAM

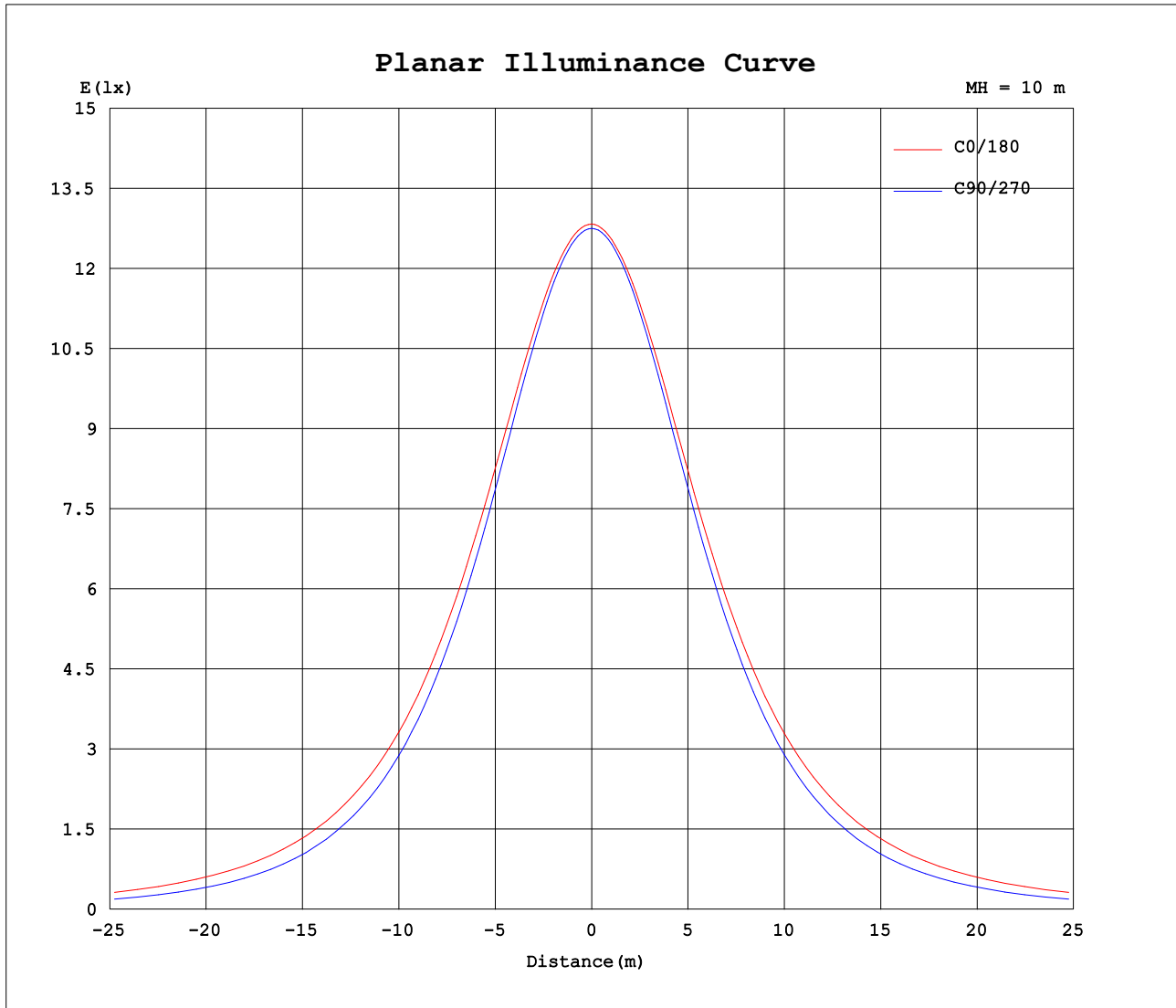
Test:U:230.55V I:0.1587A P:36.096W PF:0.9853 Freq:0Hz Lamp Flux:4528x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A30
MFR.:	SUR.:0.1*1.2	Shielding Angle:



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

γ Range: 0 - 150DEG
 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: 3000K

Planar Illuminance Curve



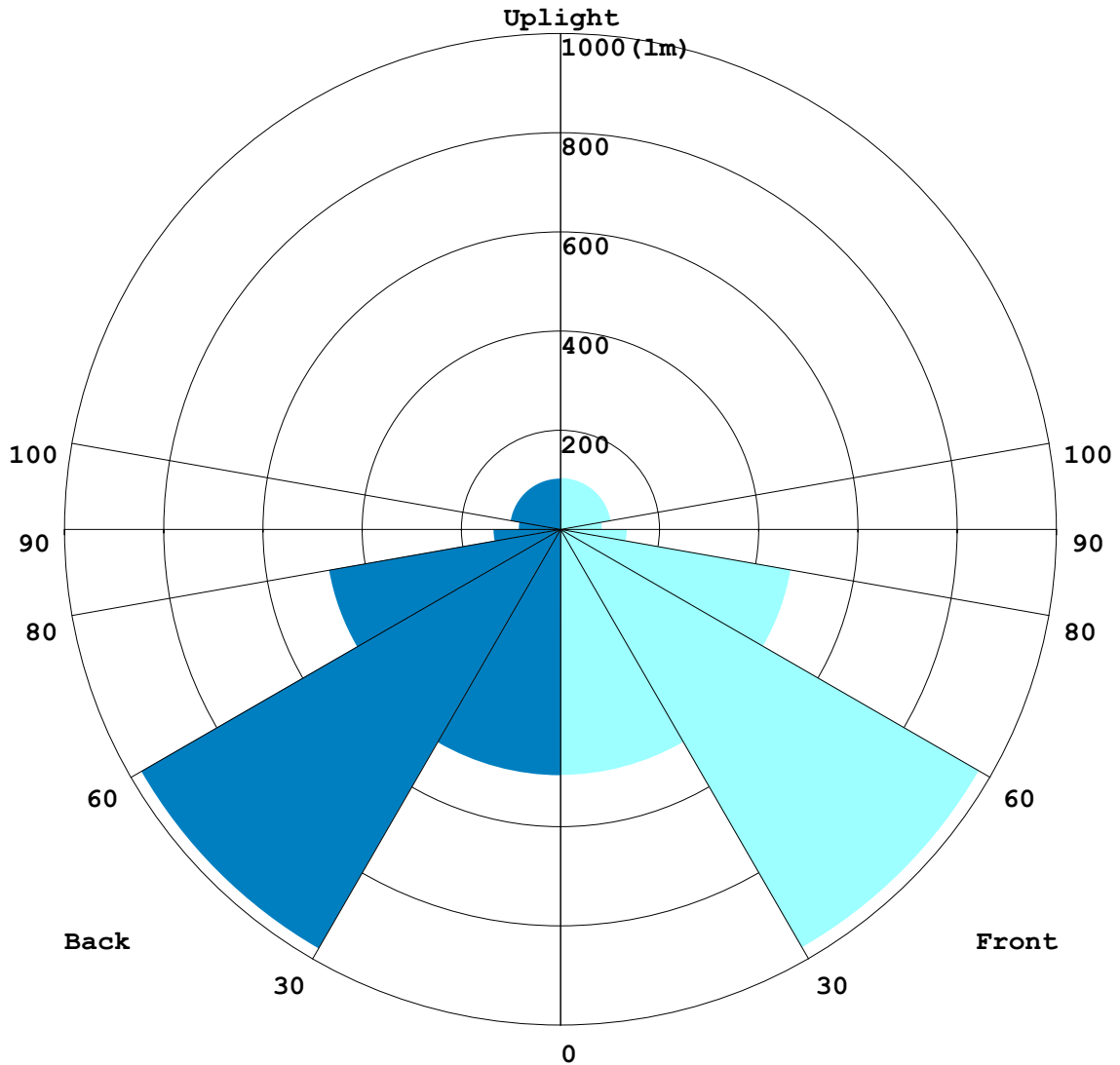
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: NEIKO
Test Date: 2021-07-08

γ Range: 0 - 150DEG
 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: 3000K

LCS REPORT

Test:U:230.55V I:0.1587A P:36.096W PF:0.9853 Freq:0Hz Lamp Flux:4528x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A30
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 - 150DEG
 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: 3000K

BUG REPORT

Test:U:230.55V I:0.1587A P:36.096W PF:0.9853 Freq:0Hz Lamp Flux:4528x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A30
MFR.:	SUR.:0.1*1.2	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	495.7	10.9
FM - Front-Medium(30-60)	974.26	21.5
FH - Front-High(60-80)	471.84	10.4
FVH - Front-Very High(80-90)	133.87	3.0
Total Forward Light	2262.1	50.0

BL - Back-Low(0-30)	496.07	11.0
BM - Back-Medium(30-60)	976.2	21.6
BH - Back-High(60-80)	473.65	10.5
BVH - Back-Very High(80-90)	134.36	3.0
Total Back Light	2265.9	50.0

UL - Uplight-Low(90-100)	167.11	3.7
UH - Uplight-High(100-180)	204.93	4.5
Total Up Light	372.04	8.2

BUG(Back,Up,Glare) Rating	B1-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2080.3	185.6	2265.9
Street Side	2075.7	186.45	2262.1

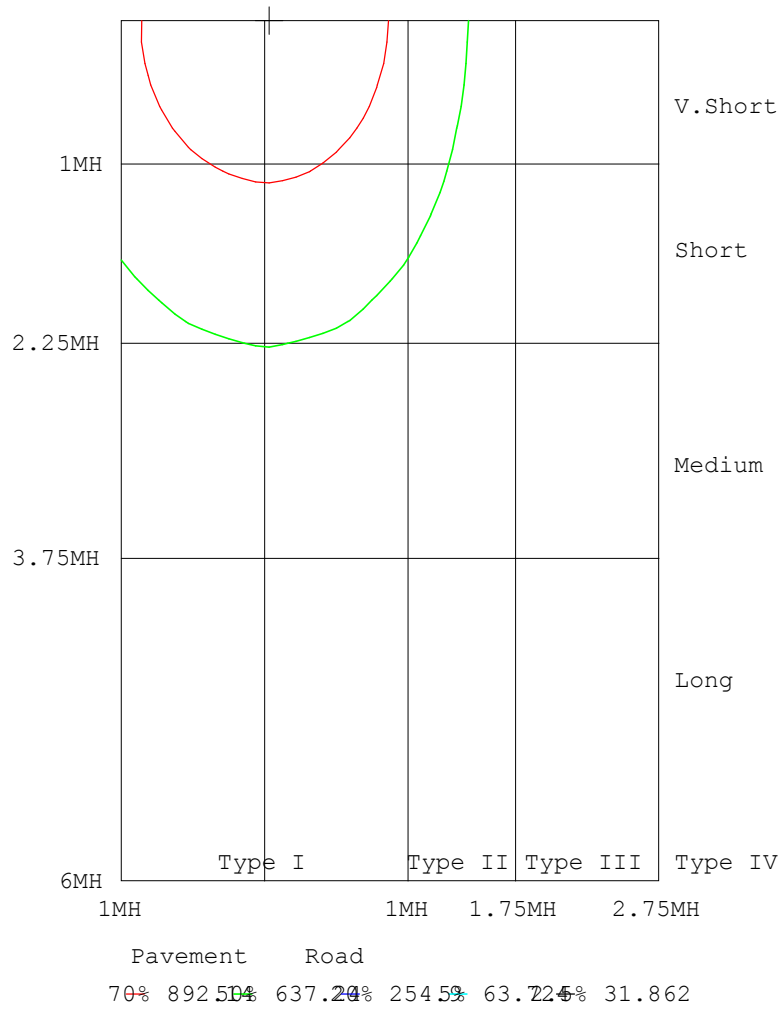
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:NEIKO
 Test Date:2021-07-08

γ Range: 0 - 150DEG
 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: 3000K

ROAD ISOCANDELA REPORT

Test:U:230.55V I:0.1587A P:36.096W PF:0.9853 Freq:0Hz Lamp Flux:4528x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A30
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 - 150DEG
 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: 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.55V I:0.1587A P:36.096W PF:0.9853 Freq:0Hz Lamp Flux:4528x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A30
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	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276
5	1272	1272	1272	1271	1270	1270	1269	1269	1269	1269	1269	1270	1270	1270	1270	1270	1270	1269	1270
10	1257	1258	1257	1255	1252	1251	1249	1250	1250	1251	1252	1254	1254	1254	1254	1252	1251	1250	1251
15	1234	1234	1231	1228	1223	1220	1217	1218	1219	1222	1225	1228	1230	1229	1227	1223	1221	1219	1219
20	1202	1201	1196	1190	1182	1177	1173	1174	1177	1183	1189	1194	1197	1194	1191	1184	1179	1175	1176
25	1162	1160	1152	1142	1131	1123	1118	1120	1125	1135	1143	1152	1156	1152	1146	1136	1128	1122	1122
30	1115	1112	1101	1086	1071	1060	1054	1057	1064	1078	1091	1102	1108	1103	1093	1079	1067	1058	1058
35	1060	1057	1042	1023	1002	989	982	985	995	1013	1031	1046	1053	1047	1034	1015	999	987	986
40	1000	996	977	953	927	911	902	906	920	943	966	984	992	985	968	944	924	909	906
45	935	929	906	878	846	826	816	822	839	868	895	917	927	917	897	868	843	824	821
50	868	860	832	798	762	737	725	733	754	788	821	848	859	848	824	789	758	735	730
55	797	788	757	716	673	643	630	640	666	706	746	777	790	777	748	707	670	642	635
60	725	715	681	634	583	547	531	543	577	625	670	705	718	704	673	625	580	545	537
65	653	642	604	553	494	449	429	447	488	545	595	632	647	632	596	544	490	448	435
70	580	569	529	473	407	352	326	351	403	466	521	560	575	559	522	465	404	350	332
75	510	497	457	397	325	258	226	258	323	392	449	490	505	489	450	390	322	257	230
80	442	429	388	327	251	174	131	176	249	322	382	423	438	422	382	320	248	173	136
85	378	366	325	264	187	107	56.2	110	187	261	320	360	375	359	319	258	184	106	59.0
90	319	307	268	209	136	62.0	20.2	64.9	136	207	264	302	317	301	263	204	133	60.6	20.8
95	266	254	218	164	97.5	37.2	17.7	39.3	98.1	162	215	251	264	250	214	158	94.7	36.0	17.5
100	218	208	175	126	68.8	23.8	16.3	24.8	69.5	125	173	205	217	204	171	121	66.4	22.5	16.0
105	177	167	137	94.4	47.2	17.6	15.3	16.9	47.8	93.9	136	165	176	163	134	90.7	45.0	16.1	14.9
110	139	131	105	68.5	31.0	16.4	14.5	15.4	31.6	68.3	104	129	139	128	103	65.5	29.5	14.9	13.9
115	106	99.2	77.7	47.3	19.9	15.5	13.9	14.7	20.2	47.8	76.9	98.3	106	97.2	75.6	45.3	18.7	14.2	13.2
120	78.7	72.7	54.7	31.1	17.2	14.8	13.7	14.3	16.2	31.5	54.4	72.1	78.9	71.2	53.3	29.6	15.7	13.7	12.9
125	55.2	50.5	36.1	19.5	16.5	14.6	13.6	14.1	15.8	19.7	36.2	50.0	55.3	49.2	35.2	18.6	15.3	13.6	12.9
130	36.1	32.6	22.4	18.3	16.3	14.7	13.9	14.3	15.7	17.4	22.4	32.3	36.2	31.5	21.7	17.1	15.3	13.7	13.1
135	22.9	22.3	20.1	18.1	16.5	15.2	14.6	14.8	16.0	17.4	18.7	20.1	22.0	19.7	18.3	17.0	15.6	14.2	13.7
140	22.0	21.8	19.6	18.3	16.9	16.0	15.5	15.5	16.5	17.7	18.7	19.3	19.4	19.1	18.4	17.3	16.1	15.0	14.6
145	21.5	21.2	19.5	18.4	17.4	16.7	16.4	16.3	17.0	18.0	18.8	19.3	19.3	19.1	18.5	17.6	16.6	15.7	15.5
150	21.0	20.5	19.4	18.6	17.9	17.5	17.2	16.9	17.5	18.3	18.9	19.2	19.3	19.0	18.6	17.8	17.1	16.4	16.5
155	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
160	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
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 - 150DEG
 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: 3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.55V I:0.1587A P:36.096W PF:0.9853 Freq:0Hz Lamp Flux:4528x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A30
MFR.:	SUR.:0.1*1.2	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1276	1276	1276	1276	1276														
5	1270	1271	1271	1272	1272														
10	1252	1254	1256	1258	1258														
15	1221	1225	1228	1233	1234														
20	1178	1184	1191	1198	1202														
25	1125	1134	1144	1155	1161														
30	1062	1074	1088	1103	1113														
35	991	1006	1024	1045	1058														
40	913	932	955	980	996														
45	829	851	880	910	930														
50	740	767	800	836	861														
55	646	679	719	761	790														
60	551	589	638	685	716														
65	453	500	556	609	643														
70	357	414	477	534	570														
75	264	333	401	461	499														
80	181	258	331	393	431														
85	113	194	268	329	367														
90	66.8	142	214	272	309														
95	40.4	102	167	222	256														
100	25.4	72.6	129	178	209														
105	17.5	50.1	97.2	140	168														
110	15.9	32.7	69.4	108	132														
115	14.9	20.6	48.1	79.8	100														
120	14.2	16.4	31.6	55.2	73.4														
125	13.8	15.5	19.0	37.0	51.0														
130	13.8	15.2	17.2	22.5	31.5														
135	14.2	15.4	16.9	19.1	21.9														
140	15.0	15.9	16.9	18.2	21.3														
145	15.7	16.4	17.2	18.2	21.0														
150	16.6	17.0	17.5	18.2	20.0														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
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 - 150DEG
 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: 3000K