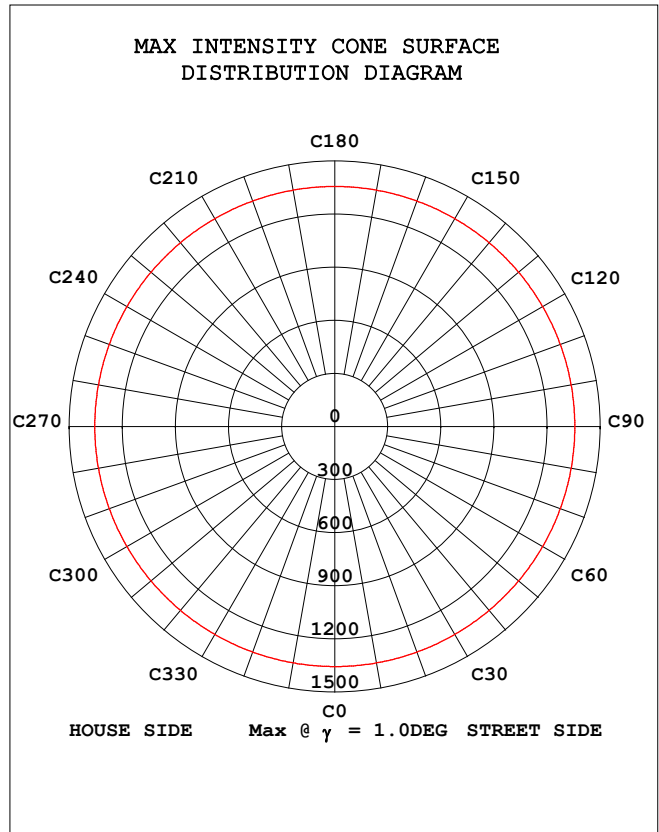
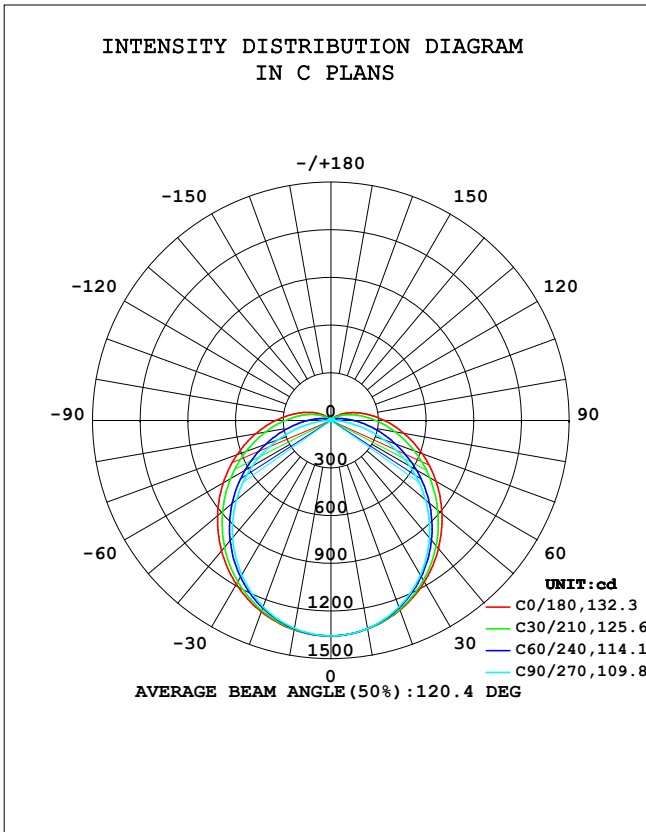


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.52V I:0.1523A P:34.630W PF:0.9852 Freq:0Hz Lamp Flux:4839.55x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A28
MFR.:	SUR.:0.1*1.2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.75 lm/W			
MODEL	WP36W-CC	I _{max} (cd)	1356	η street_up (%)	4.1
NOMINAL POWER (W)	36	LOR (%)	100.0	η street_down (%)	45.8
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	4840	η house_up (%)	4.2
NOMINAL FLUX (lm)	4839.55	MAXIMUM @ (C, γ)	180,1.0	η house_down (%)	45.9
LAMPS INSIDE	1	η up (%)	8.3	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)		η down (%)	91.7	SLI	21.419

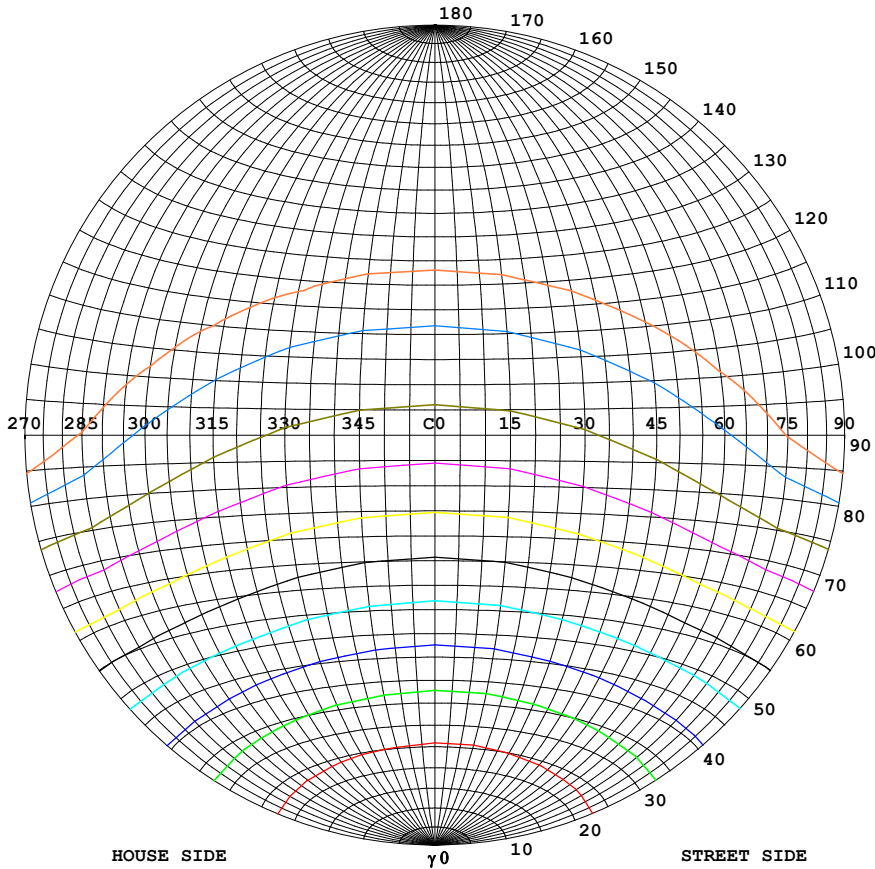


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: NEIKO
 Test Date: 2021-07-08

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: 4000K

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.52V I:0.1523A P:34.630W PF:0.9852 Freq:0Hz Lamp Flux:4839.55x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A28
MFR.:	SUR.:0.1*1.2	Shielding Angle:



Classification:

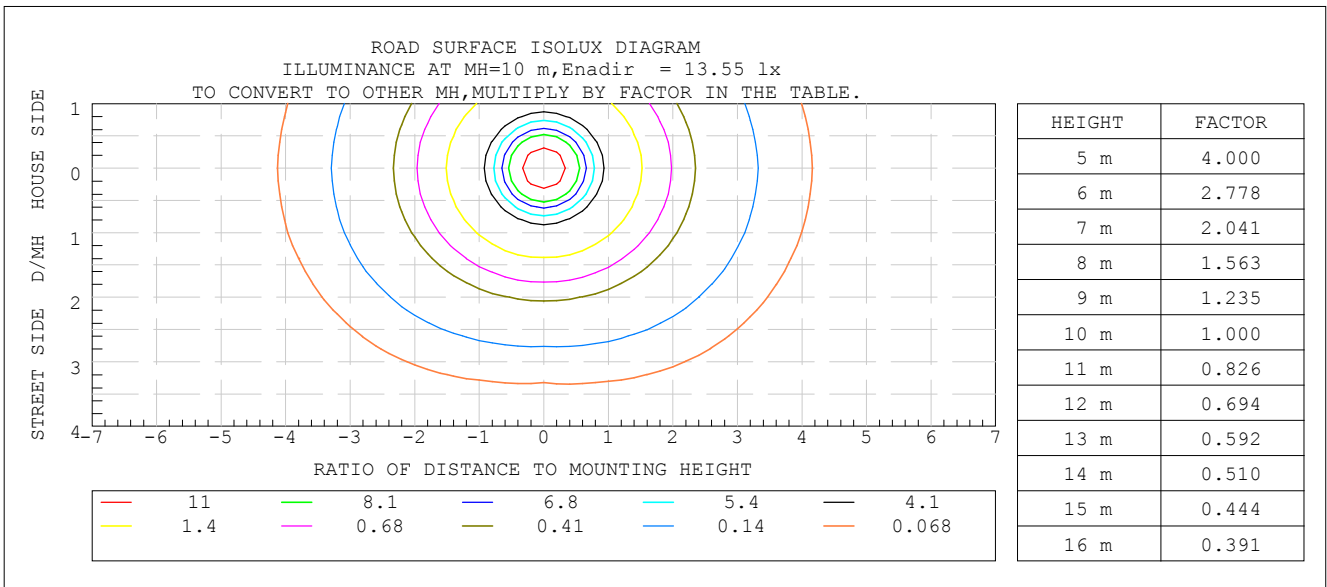
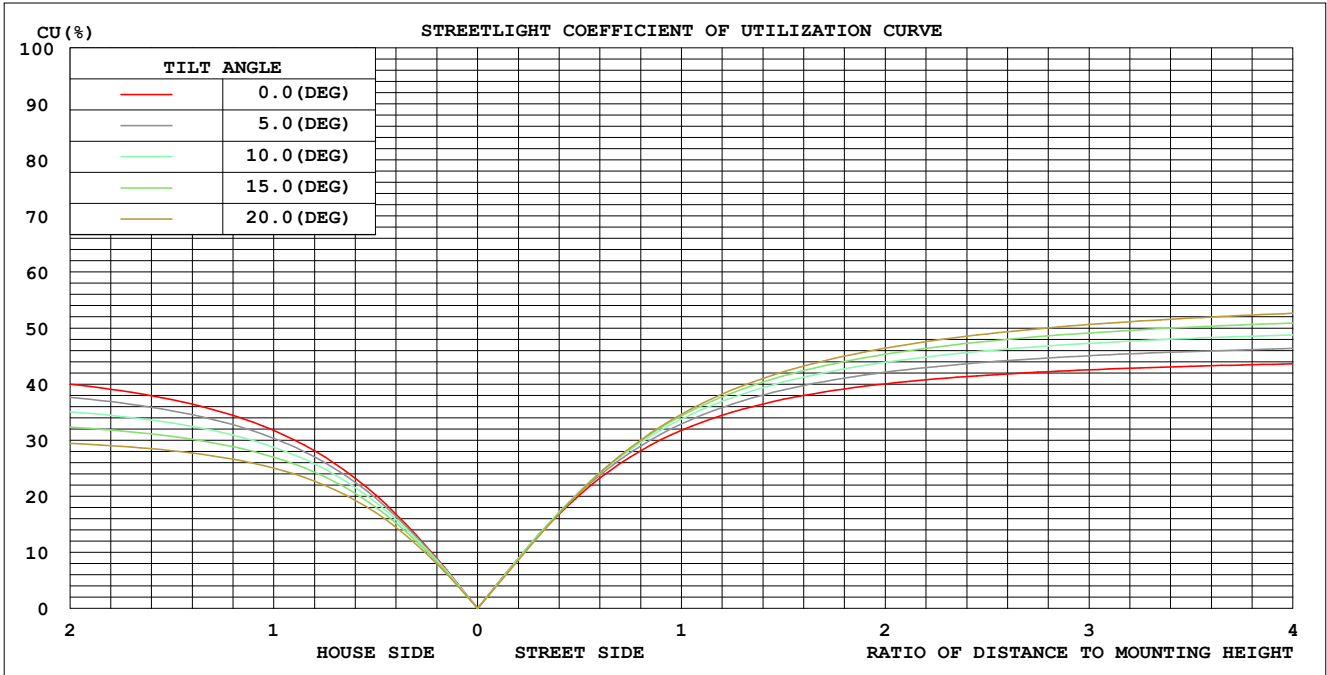
IES:Type II - Very Short
 CIE:Narrow - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:99.21cd/klm
 Max.At90:72.01cd/klm
 Max.80-90:99.21cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	1356
90%	1221
80%	1085
70%	950
60%	814
50%	678
40%	543
30%	407
20%	271
10%	136
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 - 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: 4000K

**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: 4000K

ZONAL FLUX DIAGRAM

Test:U:230.52V I:0.1523A P:34.630W PF:0.9852 Freq:0Hz Lamp Flux:4839.55x1 lm		
NAME :	TYPE:LED	WEIGHT:
SPEC. :	DIM. :	SERIAL No.:BLD20210708A28
MFR. :	SUR.:0.1*1.2	Shielding Angle:

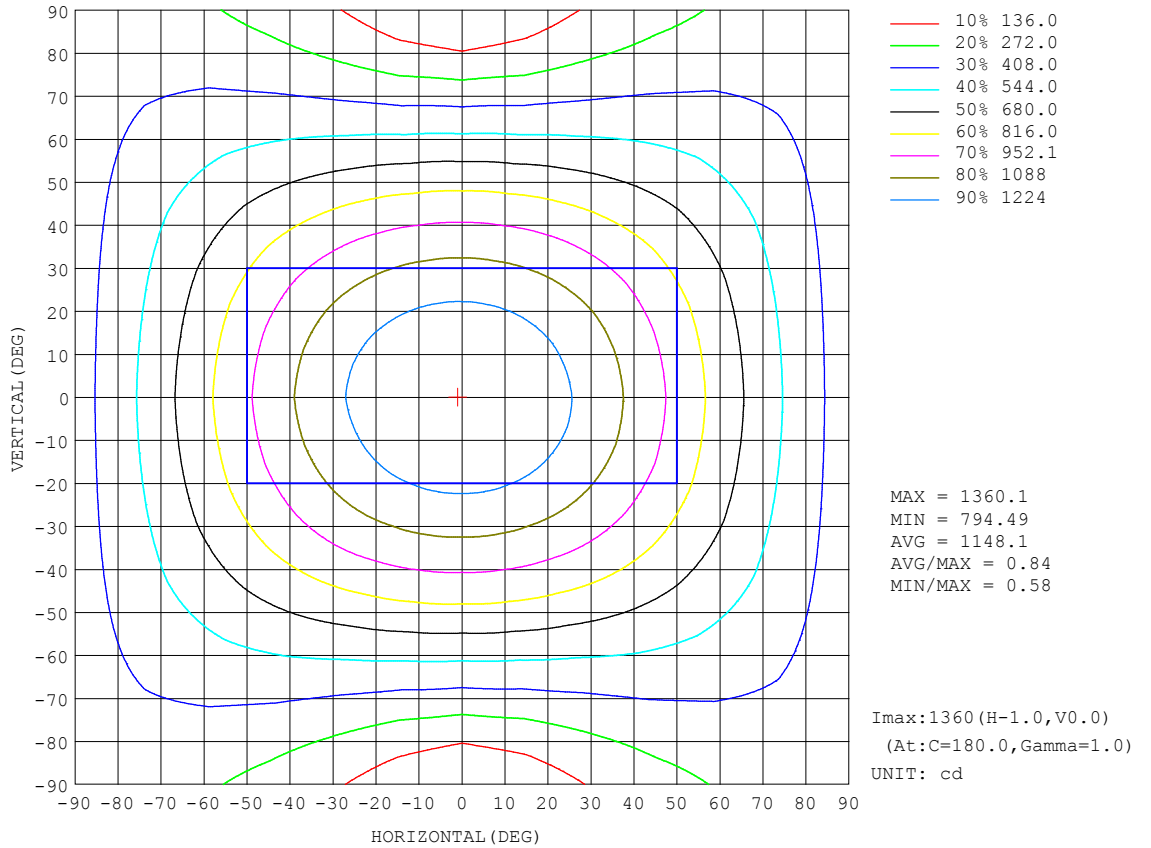
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1332	1332	1329	1334	1338	1333	1328	1331	0- 10	128.3	128.3	2.65,2.65
20	1271	1261	1250	1266	1282	1264	1249	1259	10- 20	367.7	496.0	10.2,10.2
30	1175	1150	1126	1158	1191	1155	1124	1148	20- 30	558.9	1055	21.8,21.8
40	1053	1008	964.9	1017	1072	1014	963.1	1007	30- 40	679.9	1735	35.8,35.8
50	912.5	844.0	778.0	853.9	932.4	849.8	776.0	842.7	40- 50	719.8	2455	50.7,50.7
60	762.9	670.3	571.6	681.0	782.1	676.1	570.2	670.7	50- 60	681.5	3136	64.8,64.8
70	610.9	500.0	353.3	510.5	628.6	505.0	353.2	502.1	60- 70	578.5	3715	76.8,76.8
80	465.4	345.6	144.2	355.3	480.1	349.1	144.0	349.0	70- 80	435.0	4150	85.7,85.7
90	337.1	220.5	22.07	228.9	348.5	224.0	22.37	225.6	80- 90	288.7	4438	91.7,91.7
100	231.4	132.2	17.13	138.1	238.8	134.0	17.39	136.8	90-100	180.2	4618	95.4,95.4
110	147.7	71.97	15.02	75.53	152.8	72.52	15.16	73.37	100-110	107.2	4726	97.6,97.6
120	83.71	32.66	14.02	34.66	86.80	32.68	14.10	34.45	110-120	57.85	4784	98.8,98.8
130	38.22	17.68	14.13	19.98	39.80	20.01	14.36	17.87	120-130	28.20	4812	99.4,99.4
140	20.77	17.89	15.70	19.93	22.91	19.87	16.01	17.91	130-140	15.24	4827	99.7,99.7
150	20.52	18.54	17.68	20.14	21.91	20.09	17.82	18.58	140-150	12.03	4839	100,100
160	0	0	0	0	0	0	0	0	150-160	0.5236	4840	100,100
170	0	0	0	0	0	0	0	0	160-170	0	4840	100,100
180	0	0	0	0	0	0	0	0	170-180	0	4840	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: 4000K

ISOCANDELA DIAGRAM

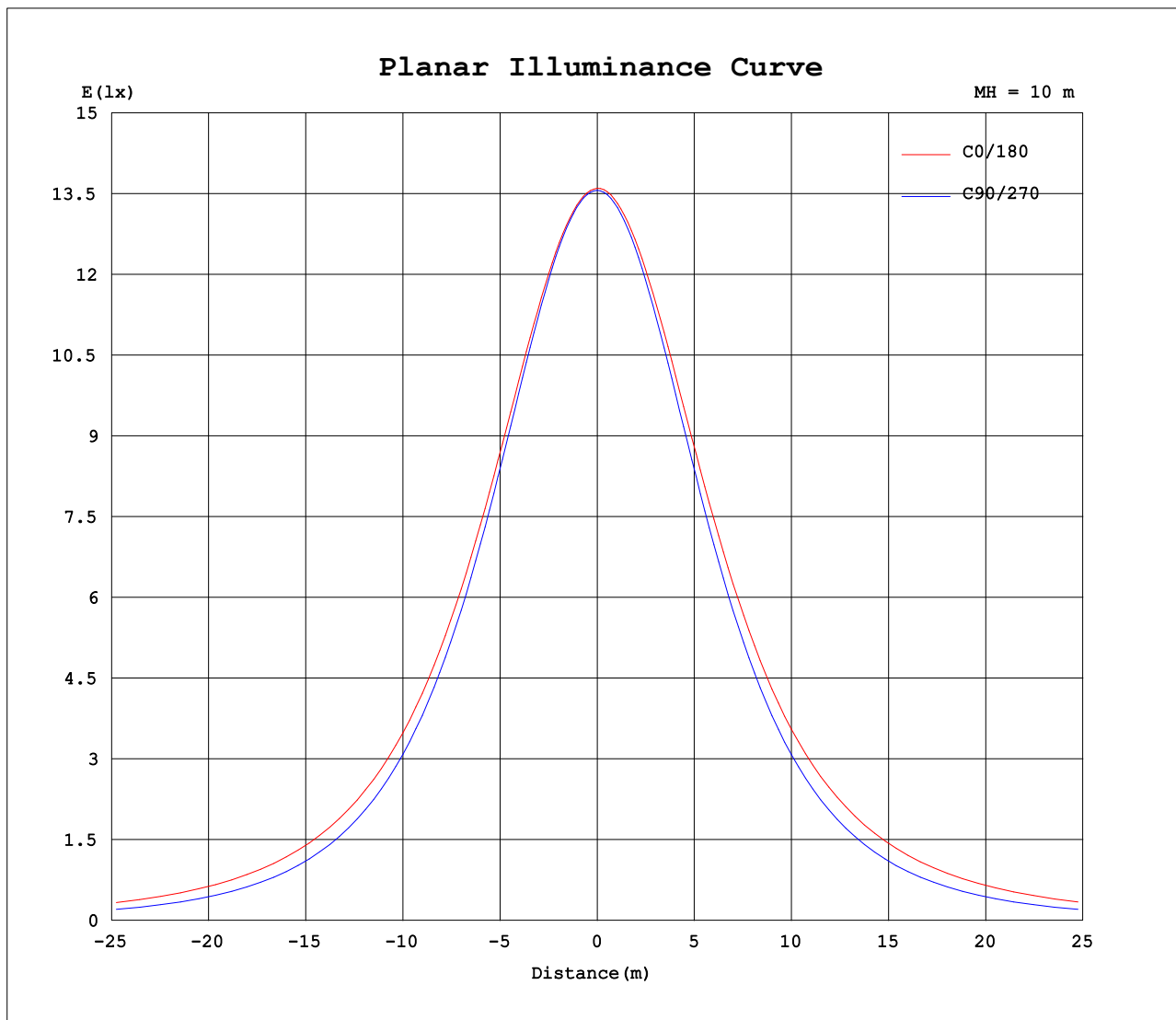
Test:U:230.52V I:0.1523A P:34.630W PF:0.9852 Freq:0Hz Lamp Flux:4839.55x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A28
MFR.:	SUR.:0.1*1.2	Shielding Angle:



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: 4000K

Planar Illuminance Curve



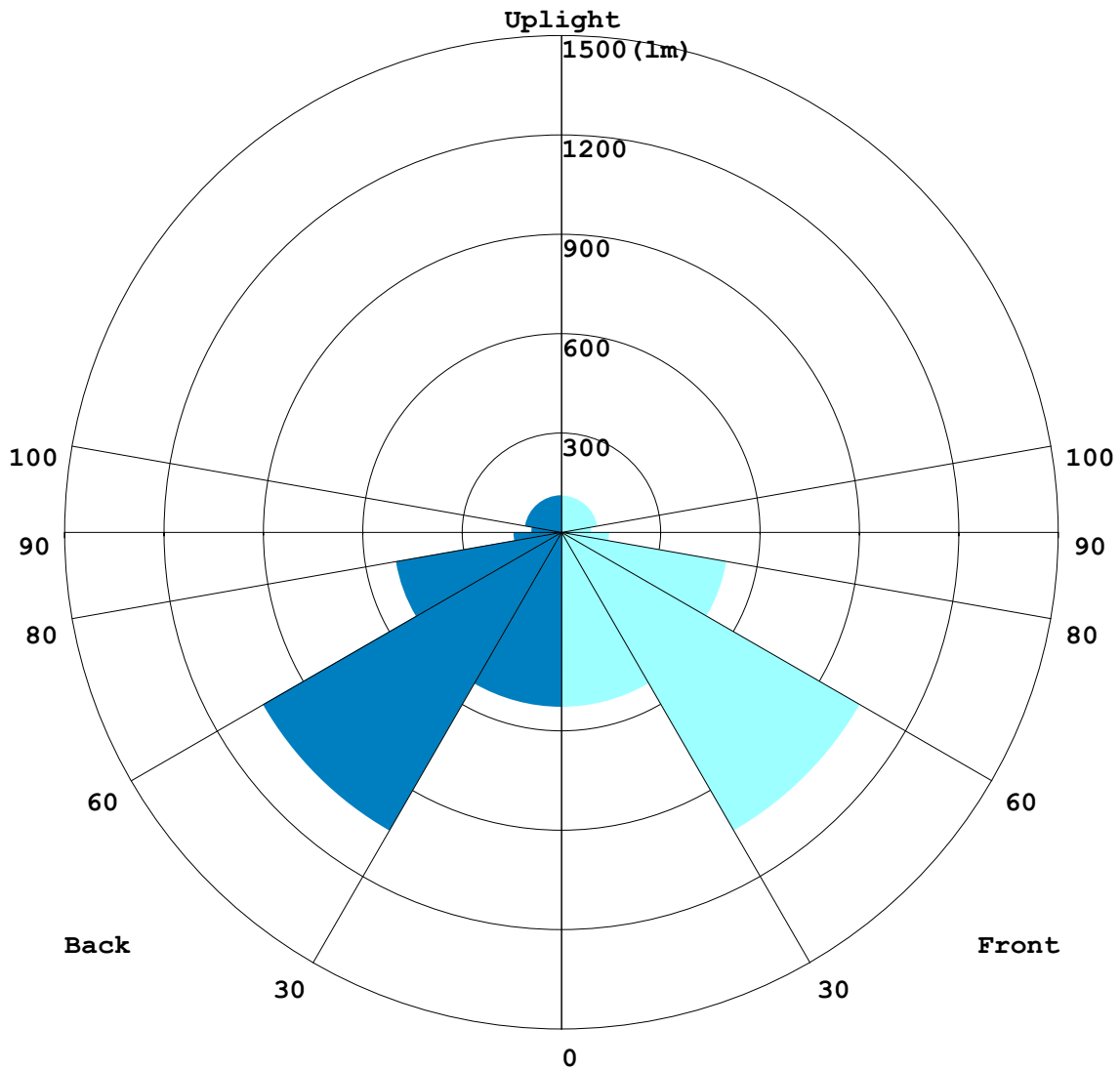
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:NEIKO
Test Date:2021-07-08

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: 4000K

LCS REPORT

Test:U:230.52V I:0.1523A P:34.630W PF:0.9852 Freq:0Hz Lamp Flux:4839.55x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A28
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: 4000K

BUG REPORT

Test:U:230.52V I:0.1523A P:34.630W PF:0.9852 Freq:0Hz Lamp Flux:4839.55x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A28
MFR.:	SUR.:0.1*1.2	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	527.53	10.9
FM - Front-Medium(30-60)	1040.5	21.5
FH - Front-High(60-80)	506.41	10.5
FVH - Front-Very High(80-90)	144.03	3.0
Total Forward Light	2418.3	50.0

BL - Back-Low(0-30)	527.45	10.9
BM - Back-Medium(30-60)	1040.6	21.5
BH - Back-High(60-80)	507.09	10.5
BVH - Back-Very High(80-90)	144.67	3.0
Total Back Light	2421.3	50.0

UL - Uplight-Low(90-100)	180.22	3.7
UH - Uplight-High(100-180)	221.06	4.6
Total Up Light	401.28	8.3

BUG(Back,Up,Glare) Rating	B2-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2219.8	201.5	2421.3
Street Side	2218.5	199.77	2418.3

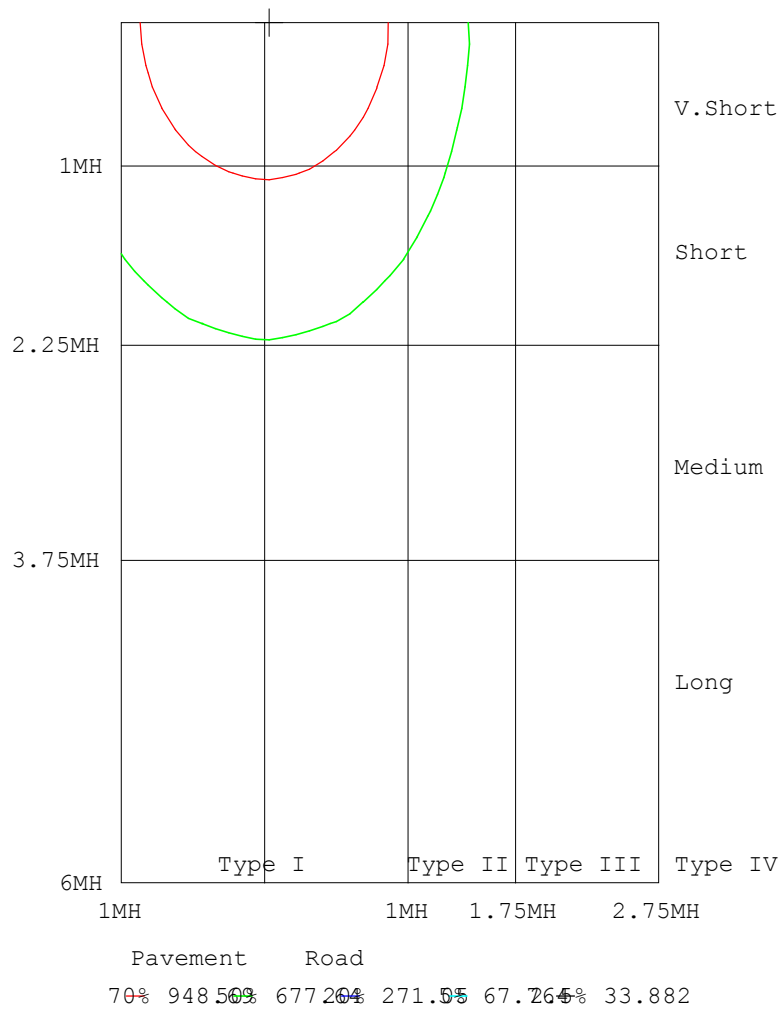
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:NEIKO
Test Date:2021-07-08

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: 4000K

ROAD ISOCANDELA REPORT

Test:U:230.52V I:0.1523A P:34.630W PF:0.9852 Freq:0Hz Lamp Flux:4839.55x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A28
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: 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.52V I:0.1523A P:34.630W PF:0.9852 Freq:0Hz Lamp Flux:4839.55x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A28
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	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356	1356
5	1350	1350	1350	1350	1350	1350	1350	1350	1350	1351	1352	1352	1352	1352	1351	1351	1350	1349	1349
10	1332	1333	1332	1332	1330	1330	1329	1331	1332	1334	1336	1337	1338	1337	1336	1333	1331	1329	1328
15	1306	1306	1304	1302	1299	1297	1296	1298	1301	1306	1309	1313	1315	1312	1309	1304	1300	1296	1295
20	1271	1270	1266	1261	1255	1252	1250	1253	1258	1266	1273	1279	1282	1278	1273	1264	1257	1250	1249
25	1227	1226	1218	1210	1200	1195	1193	1197	1205	1216	1227	1236	1240	1235	1227	1214	1203	1194	1191
30	1175	1173	1163	1150	1136	1129	1126	1131	1141	1158	1173	1186	1191	1185	1173	1155	1139	1127	1124
35	1117	1114	1100	1083	1064	1053	1049	1056	1070	1091	1111	1128	1135	1127	1111	1088	1067	1052	1047
40	1053	1049	1031	1008	985	970	965	973	990	1017	1043	1063	1072	1062	1042	1014	988	969	963
45	984	978	956	928	899	881	875	884	906	938	969	993	1003	992	968	934	903	879	872
50	912	904	878	844	809	786	778	789	816	854	891	921	932	919	890	850	813	784	776
55	839	829	798	757	715	687	677	690	722	768	812	845	858	844	810	763	719	685	675
60	763	752	717	670	620	584	572	588	627	681	731	768	782	766	729	676	624	583	570
65	687	675	637	584	524	480	463	485	533	595	650	690	705	688	648	589	529	479	462
70	611	598	558	500	432	377	353	382	441	511	570	612	629	611	568	505	436	376	353
75	536	523	481	420	345	276	245	282	354	430	493	536	553	535	491	424	349	276	245
80	465	452	409	346	266	186	144	194	275	355	419	464	480	462	417	349	269	187	144
85	399	385	342	278	198	114	62.3	122	207	287	352	396	411	394	350	282	201	114	62.5
90	337	324	283	221	143	65.6	22.1	72.3	151	229	291	333	348	331	289	224	146	66.5	22.4
95	281	268	230	172	102	39.0	18.6	43.5	109	179	237	276	290	275	235	175	105	39.8	19.0
100	231	219	184	132	72.0	24.6	17.1	27.2	77.1	138	191	226	239	225	188	134	73.4	25.0	17.4
105	187	176	145	99.3	49.2	17.5	16.0	18.5	52.9	104	150	182	193	180	148	100	50.0	18.4	16.1
110	148	138	111	72.0	32.1	16.2	15.0	16.8	34.9	75.5	115	142	153	141	113	72.5	32.8	17.0	15.2
115	113	105	81.9	49.5	20.4	15.4	14.4	16.0	22.2	52.8	84.9	108	117	107	83.5	50.2	20.9	16.1	14.5
120	83.7	77.1	57.9	32.7	16.8	14.8	14.0	15.6	18.4	34.7	60.0	79.5	86.8	78.4	58.7	32.7	18.3	15.6	14.1
125	58.6	53.4	37.9	19.8	16.2	14.6	13.9	15.5	17.8	21.9	39.8	55.2	60.9	54.3	38.8	21.1	17.7	15.3	14.1
130	38.2	34.2	23.1	17.7	16.1	14.7	14.1	15.6	17.6	20.0	24.7	35.4	39.8	34.7	24.1	20.0	17.5	15.5	14.4
135	23.1	21.4	19.2	17.6	16.3	15.2	14.8	16.1	17.8	19.8	21.7	23.2	24.5	23.1	21.7	19.8	17.8	16.1	15.1
140	20.8	20.5	19.0	17.9	16.8	15.9	15.7	16.9	18.2	19.9	21.5	22.5	22.9	22.5	21.4	19.9	18.3	16.9	16.0
145	20.7	20.4	19.1	18.2	17.3	16.7	16.6	17.7	18.7	20.1	21.3	22.1	22.3	22.1	21.2	20.0	18.7	17.7	16.9
150	20.5	20.2	19.2	18.5	17.9	17.5	17.7	18.4	19.1	20.1	21.1	21.7	21.9	21.7	21.0	20.1	19.2	18.4	17.8
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: 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.52V I:0.1523A P:34.630W PF:0.9852 Freq:0Hz Lamp Flux:4839.55x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:BLD20210708A28
MFR.:	SUR.:0.1*1.2	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1356	1356	1356	1356	1356														
5	1349	1349	1350	1350	1350														
10	1328	1330	1331	1332	1333														
15	1295	1297	1301	1304	1306														
20	1249	1254	1259	1266	1269														
25	1192	1199	1208	1219	1225														
30	1126	1136	1148	1164	1173														
35	1050	1063	1081	1101	1114														
40	967	984	1007	1032	1048														
45	877	899	927	957	977														
50	783	809	843	879	904														
55	684	716	756	800	829														
60	582	621	671	720	753														
65	479	527	585	640	676														
70	377	436	502	562	599														
75	278	351	423	486	525														
80	190	272	349	413	454														
85	119	204	283	347	387														
90	70.8	150	226	287	326														
95	43.2	109	177	235	271														
100	27.4	77.3	137	189	222														
105	18.5	53.5	103	149	178														
110	16.6	35.2	73.4	114	140														
115	15.7	22.6	52.1	85.0	107														
120	15.0	17.0	34.4	59.4	78.2														
125	14.7	16.3	21.1	40.0	54.3														
130	14.7	16.1	17.9	24.7	34.3														
135	15.2	16.4	17.7	19.2	21.6														
140	16.0	16.9	17.9	19.0	20.4														
145	16.8	17.5	18.2	19.1	20.4														
150	17.5	18.0	18.6	19.2	20.2														
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: 4000K