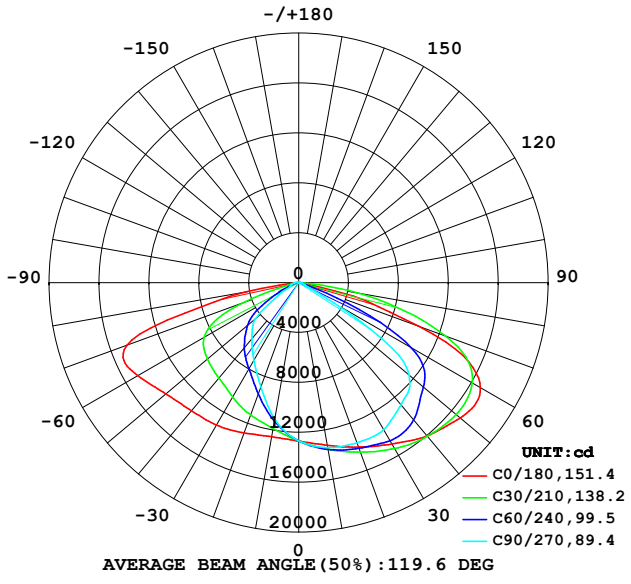
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.42V I:2.4669A P:296.29W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:47476.2x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

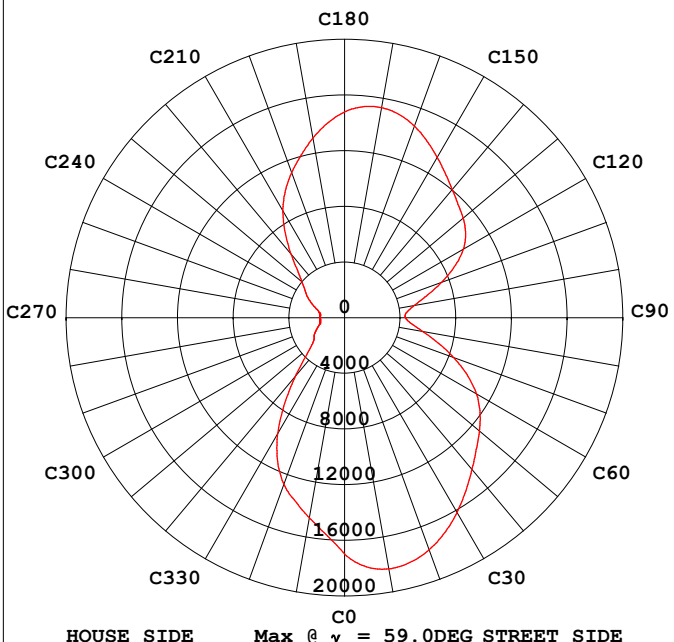
DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.74 lm/W			
MODEL	SB10-500W	Imax(cd)	18205	η street_up(%)	0.0
NOMINAL POWER(W)	300	LOR(%)	99.1	η street_down(%)	61.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	47033	η house_up(%)	0.0
NOMINAL FLUX(lm)	47476.2	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	η down(%)	99.1	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):119.6 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



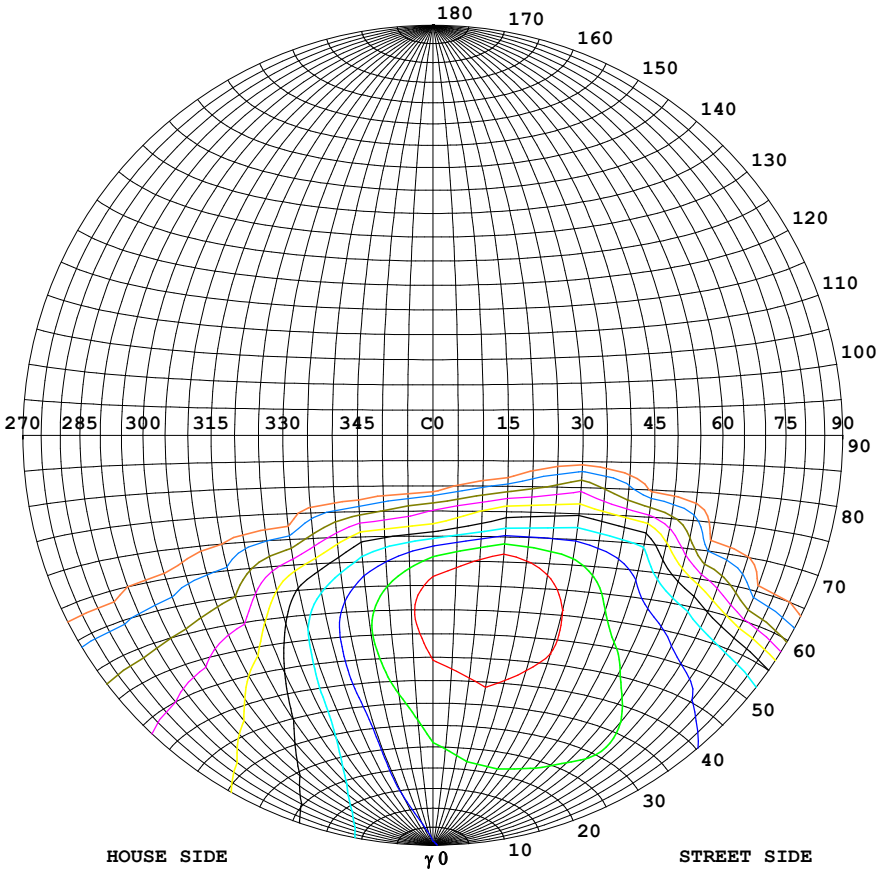
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.42V I:2.4669A P:296.29W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:47476.2x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



Classification:

IES:Type III - Short
CIE:Narrow - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:156.0cd/klm
Max.At90:0cd/klm
Max.80-90:156.0cd/klm
NRB 5101:Semi limited[22.0%]

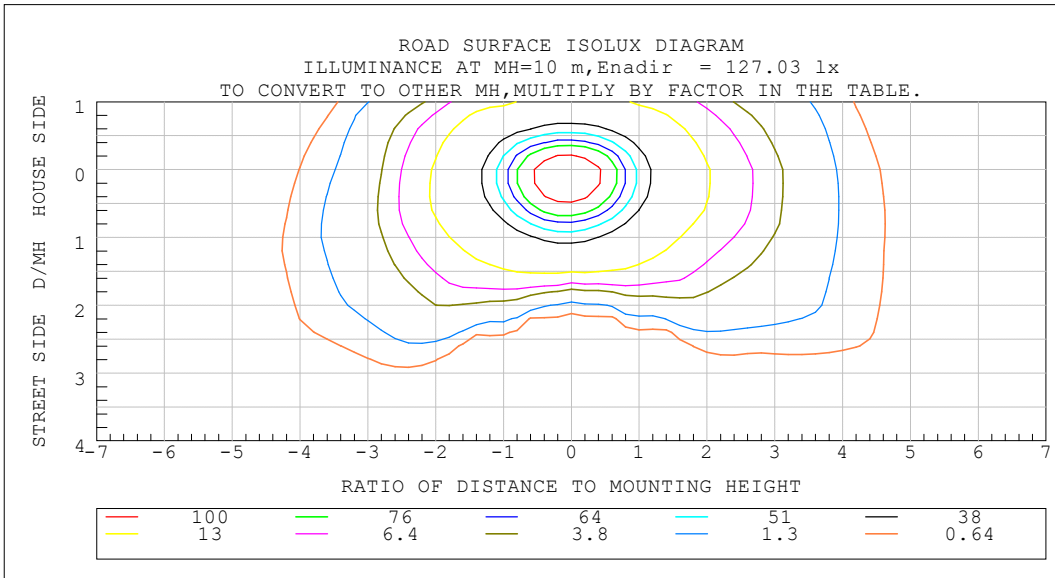
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	18205
90%	16384
80%	14564
70%	12743
60%	10923
50%	9102
40%	7282
30%	5461
20%	3641
10%	1820
5%	910

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.502
Eavg = 118.2 lx

HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.42V I:2.4669A P:296.29W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:47476.2x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

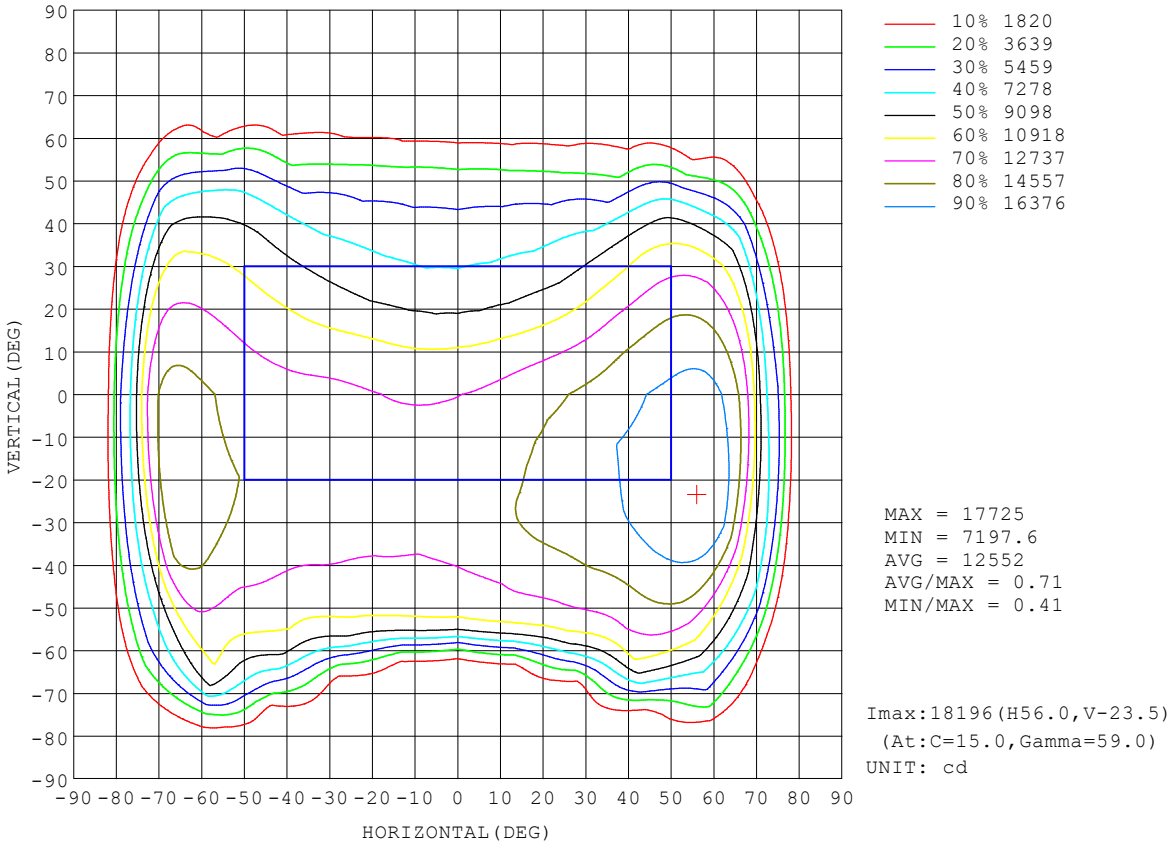
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1324	1359	1343	1309	1255	1153	1111	1195	0- 10	1204	1204	2.56,2.54
20	1403	1434	1366	1337	1282	1030	887.8	1083	10- 20	3516	4720	10,9.94
30	1494	1505	1362	1357	1319	905.4	719.8	956.5	20- 30	5619	10339	22,21.8
40	1603	1534	1277	1357	1340	811.6	583.9	856.2	30- 40	7455	17794	37.8,37.5
50	1688	1472	1155	1270	1389	686.9	456.8	685.8	40- 50	8823	26617	56.6,56.1
60	1682	1327	329.4	1143	1490	445.4	164.2	363.2	50- 60	9148	35765	76,75.3
70	1023	1061	52.97	816.6	1463	139.3	70.83	90.18	60- 70	7202	42967	91.4,90.5
80	39.23	72.92	25.69	61.22	422.8	39.95	46.64	28.32	70- 80	3580	46548	99,98
90	0	0	0	0	0	0	0	0	80- 90	485.6	47033	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	47033	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	47033	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	47033	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	47033	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	47033	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	47033	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	47033	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	47033	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	47033	100,99.1
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

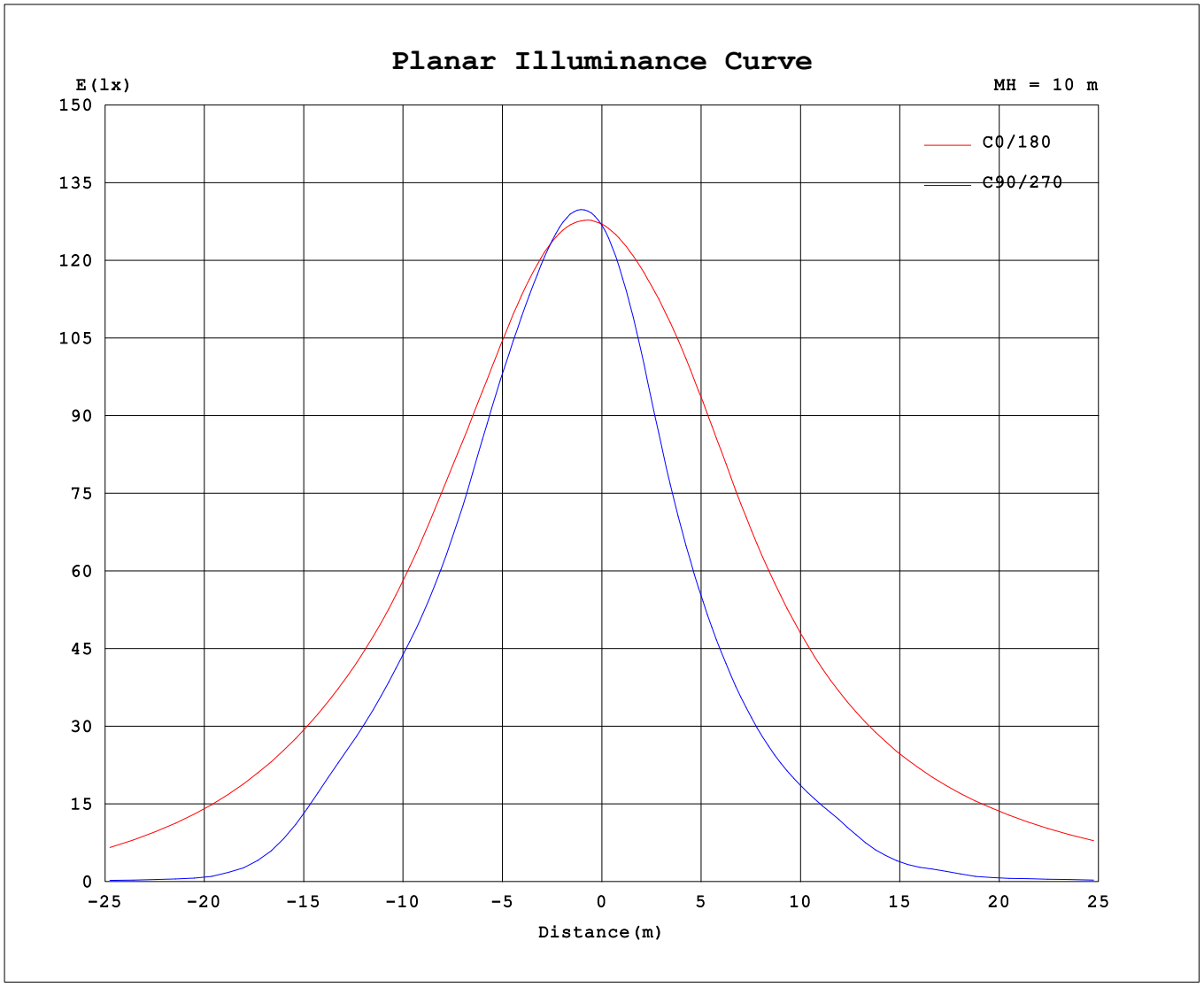
Test:U:120.42V I:2.4669A P:296.29W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:47476.2x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

Planar Illuminance Curve



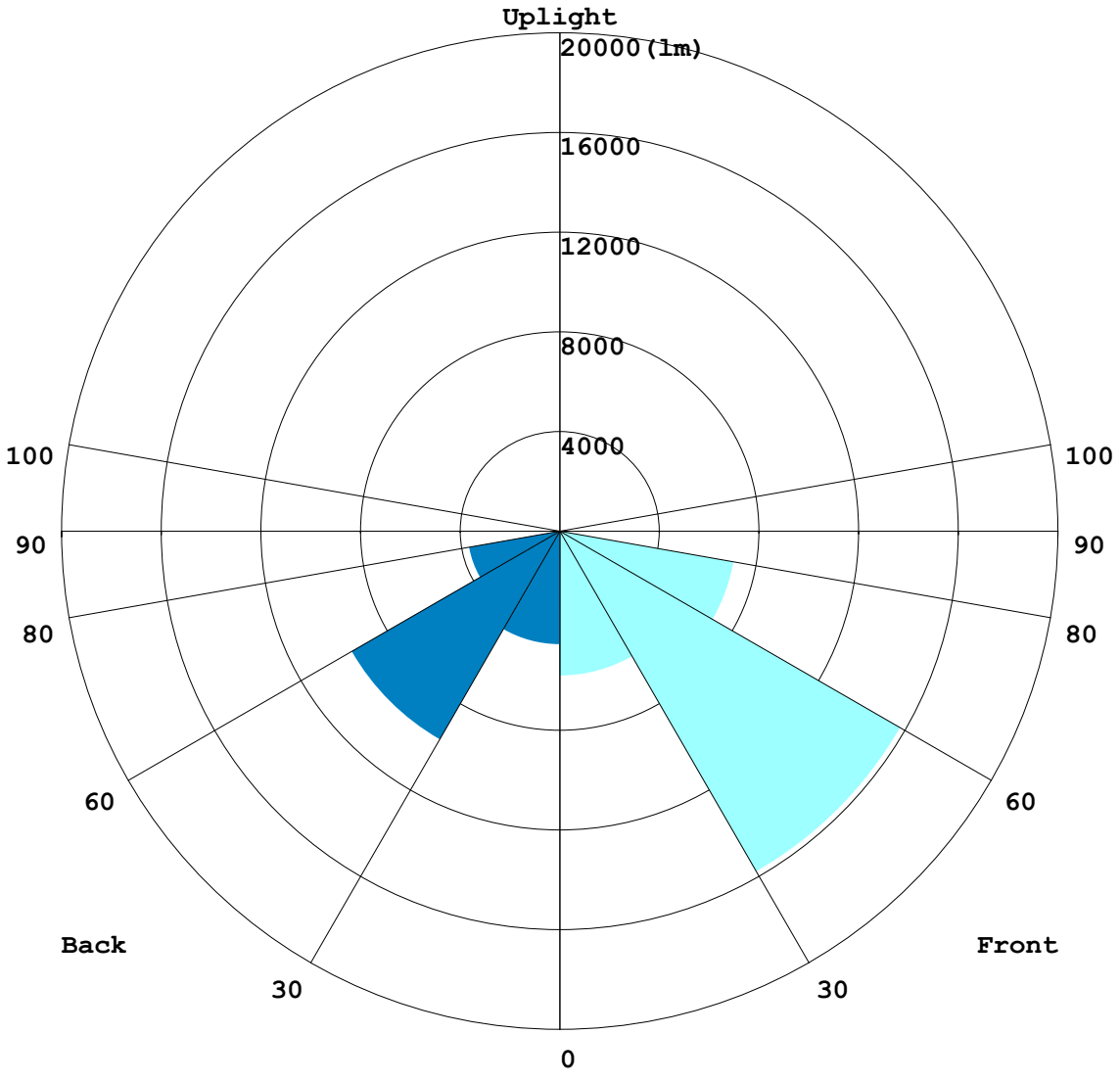
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.42V I:2.4669A P:296.29W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:47476.2x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

BUG REPORT

Test:U:120.42V I:2.4669A P:296.29W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:47476.2x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	5800.4	12.3
FM - Front-Medium(30-60)	15780	33.5
FH - Front-High(60-80)	7083.2	15.1
FVH - Front-Very High(80-90)	323.55	0.7
Total Forward Light	28987	61.6
BL - Back-Low(0-30)	4538.6	9.6
BM - Back-Medium(30-60)	9646.6	20.5
BH - Back-High(60-80)	3699.2	7.9
BVH - Back-Very High(80-90)	162.04	0.3
Total Back Light	18046	38.4
UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B5-U0-G4

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	18046	0	18046
Street Side	28987	0	28987

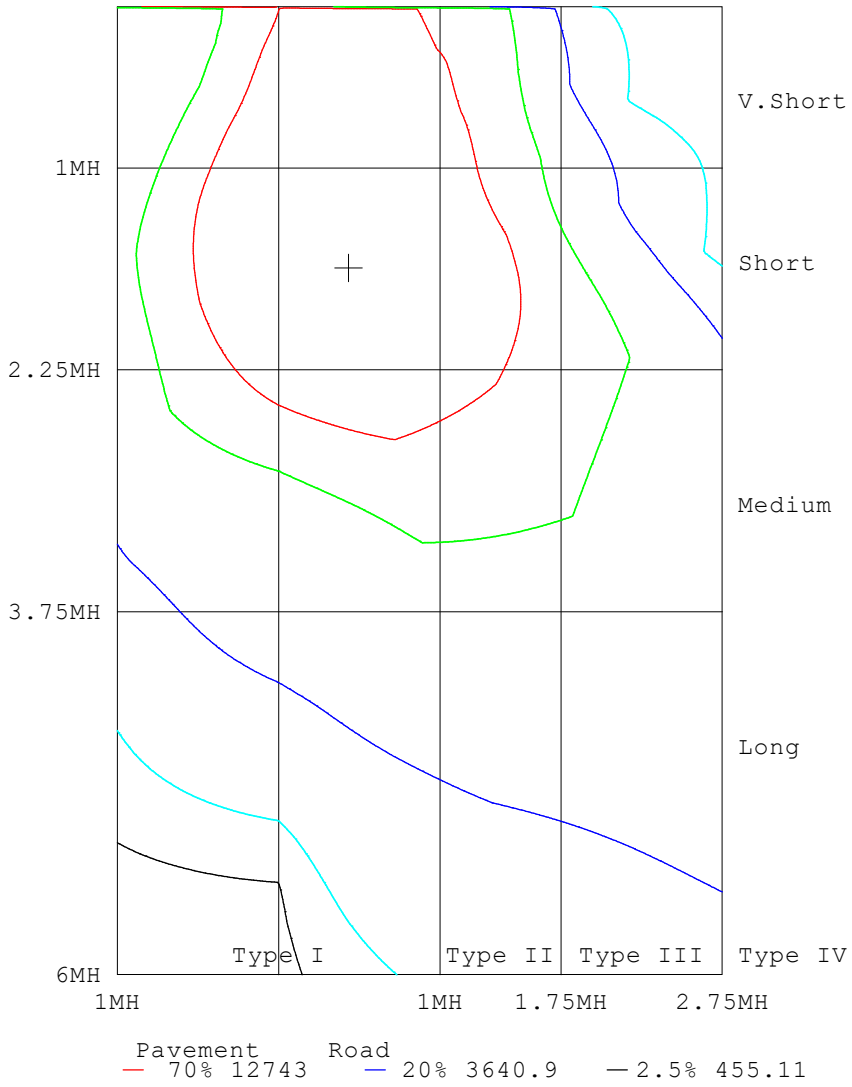
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.42V I:2.4669A P:296.29W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:47476.2x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.42V I:2.4669A P:296.29W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:47476.2x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

Table--1 UNIT: X10cd

γ (DEG) \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1270	1269	1269	1268	1269	1268	1269	1267	1267	1266	1266	1265	1270	1269	1269	1268	1269	1268	1269
5	1292	1303	1311	1315	1318	1316	1313	1306	1299	1290	1279	1266	1258	1242	1227	1213	1205	1199	1201
10	1324	1344	1355	1359	1358	1351	1343	1332	1321	1309	1294	1274	1255	1224	1188	1153	1128	1111	1111
15	1362	1390	1401	1398	1388	1374	1359	1345	1335	1325	1311	1290	1264	1216	1156	1093	1040	1004	998
20	1403	1438	1446	1434	1412	1387	1366	1350	1341	1337	1329	1311	1282	1218	1129	1030	950	898	888
25	1447	1489	1491	1469	1436	1402	1371	1355	1348	1347	1347	1334	1302	1220	1097	966	867	809	798
30	1494	1541	1535	1505	1464	1407	1362	1349	1356	1357	1360	1355	1319	1215	1059	905	799	734	720
35	1548	1600	1577	1530	1466	1380	1320	1314	1341	1365	1372	1371	1329	1202	1023	859	742	667	650
40	1603	1648	1606	1534	1435	1323	1277	1252	1299	1357	1379	1386	1340	1195	998	812	680	604	584
45	1644	1693	1630	1516	1368	1277	1240	1213	1227	1330	1381	1399	1359	1201	977	757	610	543	527
50	1688	1746	1647	1472	1305	1221	1155	1157	1177	1270	1377	1425	1389	1208	954	687	536	482	457
55	1719	1798	1642	1396	1230	1057	911	997	1116	1199	1361	1468	1436	1213	928	588	444	327	270
60	1682	1819	1606	1327	1042	574	329	495	929	1143	1322	1526	1490	1205	875	445	279	184	164
65	1505	1731	1500	1239	631	125	75.6	103	490	1057	1254	1586	1534	1162	752	278	163	82.4	80.8
70	1023	1301	1253	1061	181	52.4	53.0	53.9	119	817	1177	1536	1463	1051	477	139	66.6	63.8	70.8
75	556	826	882	591	45.2	40.9	39.6	42.2	42.9	410	1121	1089	943	717	123	65.8	46.5	51.1	63.7
80	39.2	222	490	72.9	26.7	26.9	25.7	28.2	28.3	61.2	741	608	423	189	54.2	39.9	30.8	37.4	46.6
85	11.0	36.7	42.5	14.0	13.8	13.1	12.9	14.5	16.0	18.1	96.7	110	43.1	78.2	15.1	21.2	17.3	31.3	35.5
90	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
95	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
100	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
105	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
110	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
115	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
120	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
125	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
130	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
135	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
140	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
145	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
150	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
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
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Operators:DAMIN
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γ Range: 0 - 180DEG
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Humidity:65.0%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.42V I:2.4669A P:296.29W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:47476.2x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

Table--2 UNIT: X10cd

γ (DEG) \ C(DEG)	285	300	315	330	345														
0	1267	1267	1266	1266	1265														
5	1206	1220	1235	1254	1272														
10	1124	1155	1195	1241	1284														
15	1020	1073	1145	1227	1301														
20	914	983	1083	1204	1316														
25	827	898	1016	1177	1332														
30	753	829	956	1151	1350														
35	682	763	907	1135	1380														
40	612	687	856	1133	1417														
45	545	606	788	1123	1439														
50	471	518	686	1105	1450														
55	297	393	535	1056	1429														
60	174	223	363	928	1341														
65	77.0	119	199	639	1150														
70	62.6	56.9	90.2	226	819														
75	50.8	41.7	49.7	53.4	285														
80	41.7	28.4	28.3	26.6	41.7														
85	32.9	14.7	13.2	11.3	12.9														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
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:25.3℃
Operators:DAMIN
Test Date:2024-12-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks: