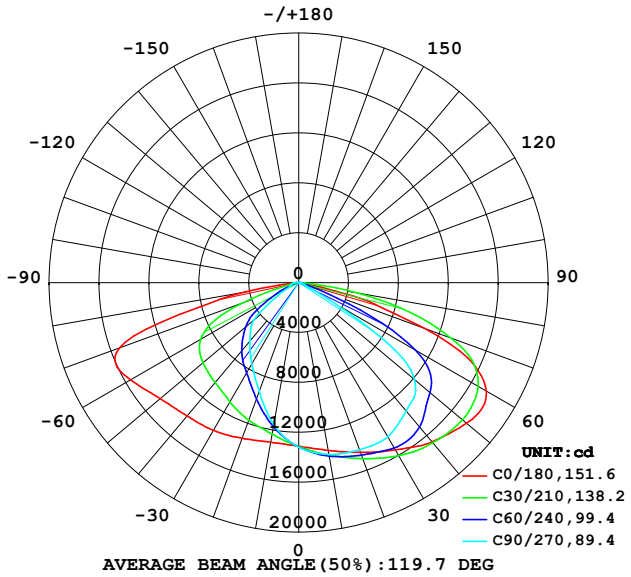
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.41V I:2.4702A P:296.66W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:49525.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

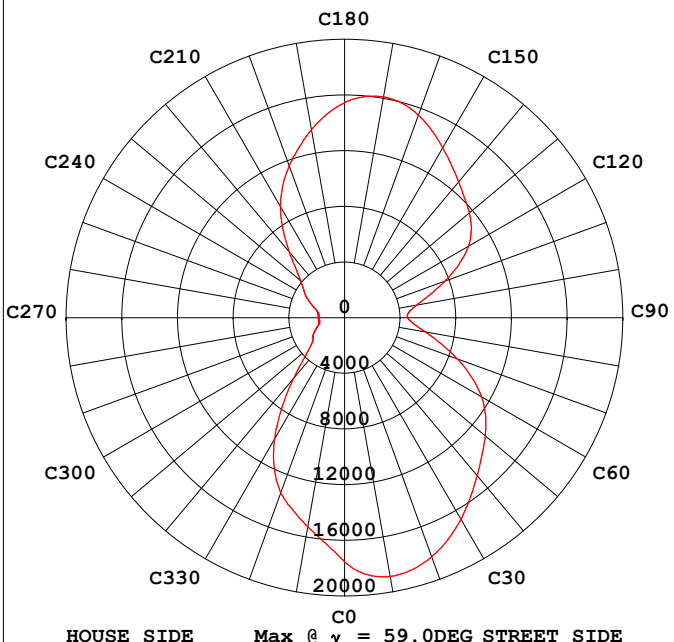
DATA OF LAMP		PHOTOMETRIC DATA Eff: 165.38 lm/W			
MODEL	SB10-500W	Imax(cd)	18748	η street_up(%)	0.0
NOMINAL POWER(W)	300	LOR(%)	99.1	η street_down(%)	61.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	49063	η house_up(%)	0.0
NOMINAL FLUX(lm)	49525.5	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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%):119.7 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



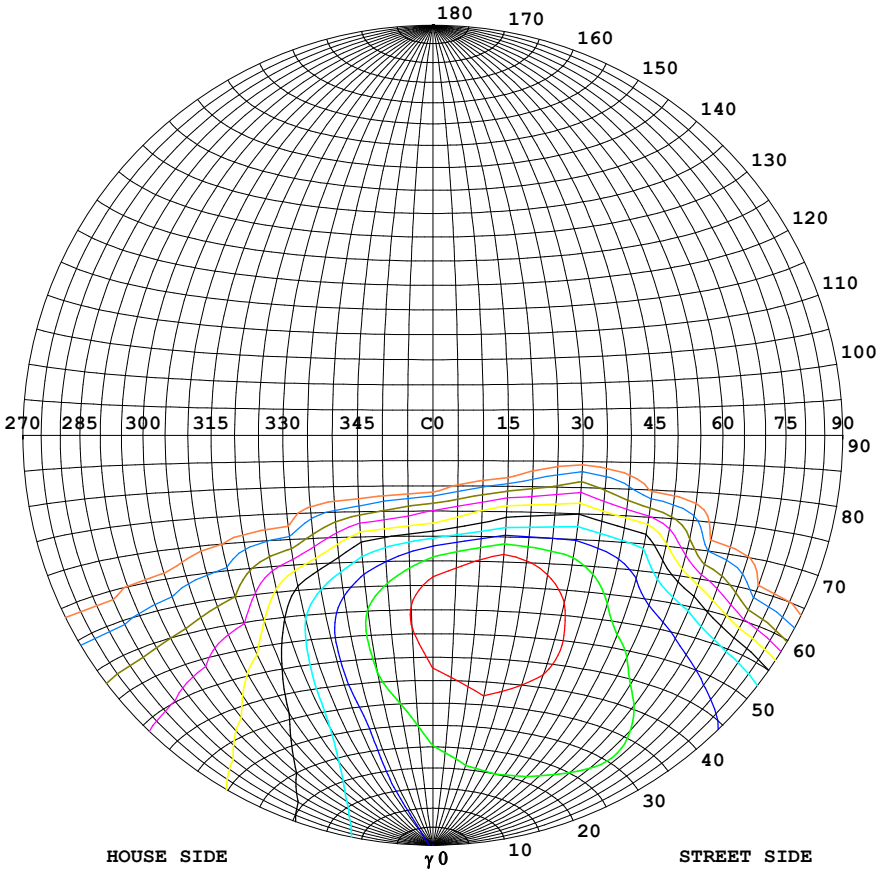
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.41V I:2.4702A P:296.66W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:49525.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 5000K	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.At80:147.9cd/klm
Max.At90:0cd/klm
Max.80-90:147.9cd/klm
NRB 5101:Semi limited[21.7%]

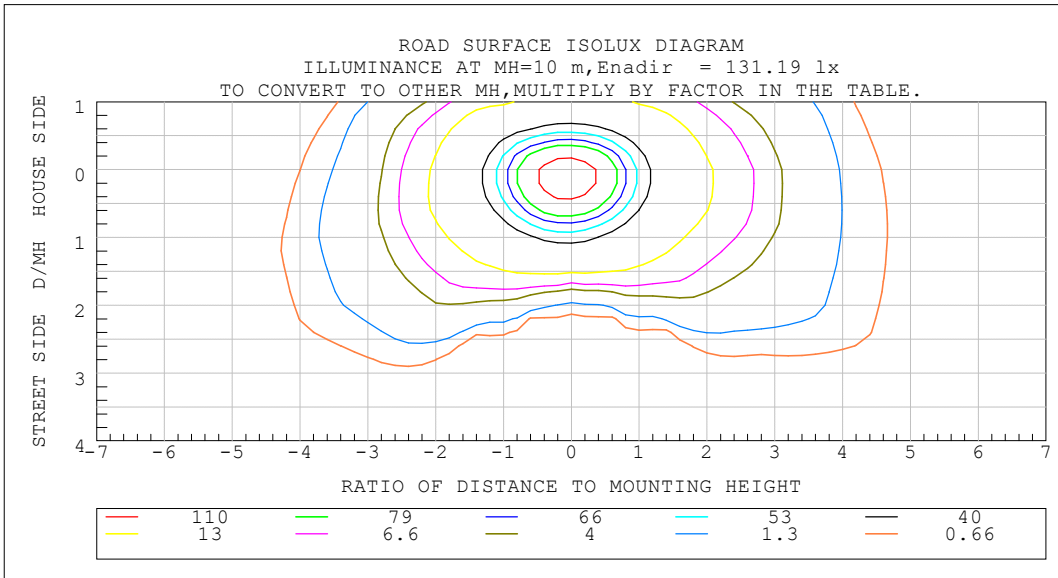
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	18748
90%	16873
80%	14998
70%	13124
60%	11249
50%	9374
40%	7499
30%	5624
20%	3750
10%	1875
5%	937

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 = 0.504
Eavg = 123.2 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:120.41V I:2.4702A P:296.66W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:49525.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

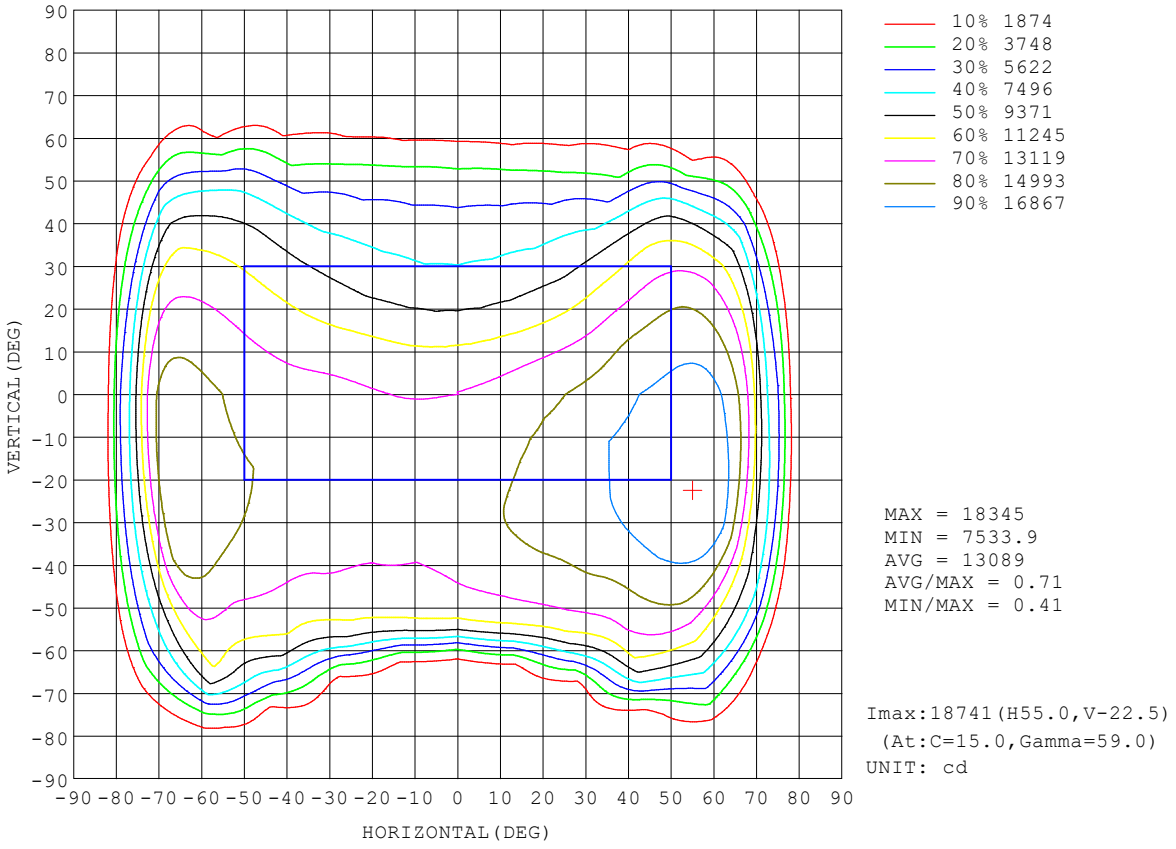
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1365	1410	1398	1365	1299	1199	1156	1242	0- 10	1251	1251	2.55,2.53
20	1448	1491	1425	1397	1328	1073	927.2	1126	10- 20	3657	4908	10,9.91
30	1548	1573	1427	1420	1368	946.2	753.4	998.5	20- 30	5857	10766	21.9,21.7
40	1665	1606	1341	1424	1395	851.2	609.8	895.6	30- 40	7796	18561	37.8,37.5
50	1755	1541	1213	1338	1449	716.3	472.4	712.5	40- 50	9234	27795	56.7,56.1
60	1735	1381	344.2	1207	1558	459.2	173.3	373.9	50- 60	9552	37347	76.1,75.4
70	1064	1074	55.49	857.0	1527	143.5	73.29	92.49	60- 70	7491	44838	91.4,90.5
80	38.35	77.11	26.47	69.46	438.0	40.98	48.30	29.74	70- 80	3728	48565	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	498.1	49063	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	49063	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	49063	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	49063	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	49063	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	49063	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	49063	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	49063	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	49063	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	49063	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

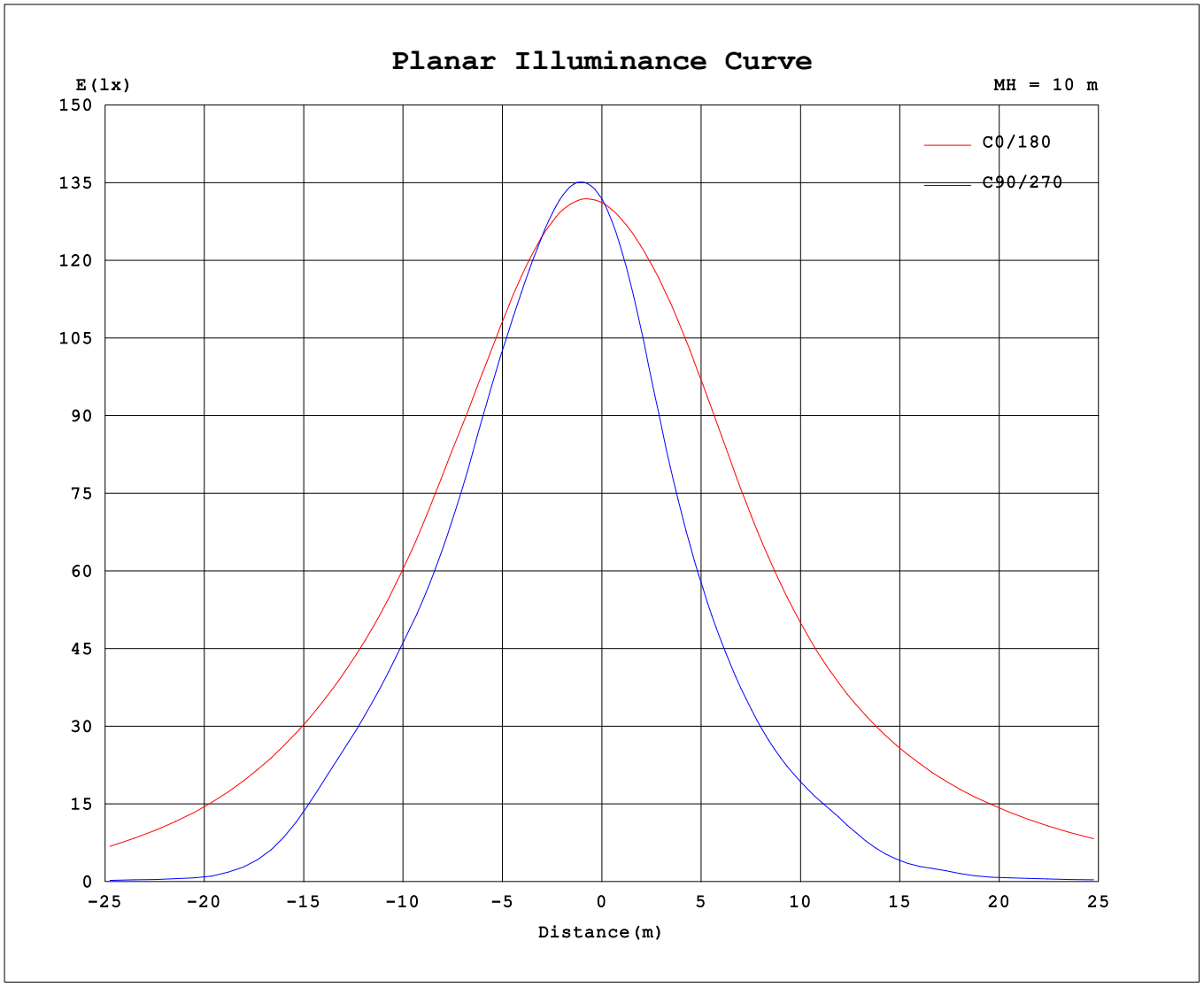
Test:U:120.41V I:2.4702A P:296.66W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:49525.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



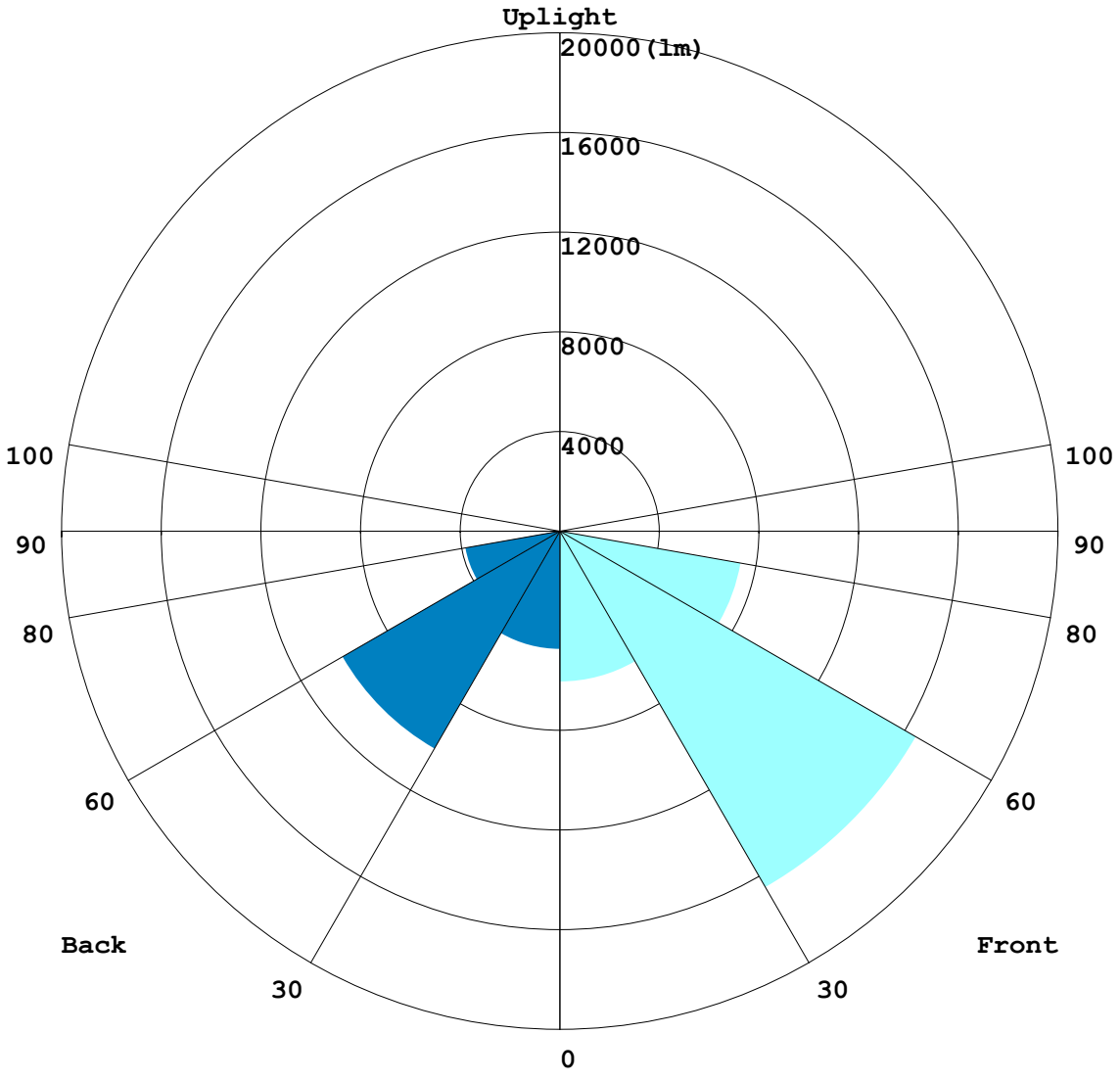
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.41V I:2.4702A P:296.66W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:49525.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 5000K	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:120.41V I:2.4702A P:296.66W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:49525.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 5000K	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)	6041.9	12.3
FM - Front-Medium(30-60)	16501	33.6
FH - Front-High(60-80)	7374.3	15.0
FVH - Front-Very High(80-90)	330.29	0.7
Total Forward Light	30247	61.6
BL - Back-Low(0-30)	4723.7	9.6
BM - Back-Medium(30-60)	10080	20.5
BH - Back-High(60-80)	3844.1	7.8
BVH - Back-Very High(80-90)	167.79	0.3
Total Back Light	18816	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	18816	0	18816
Street Side	30247	0	30247

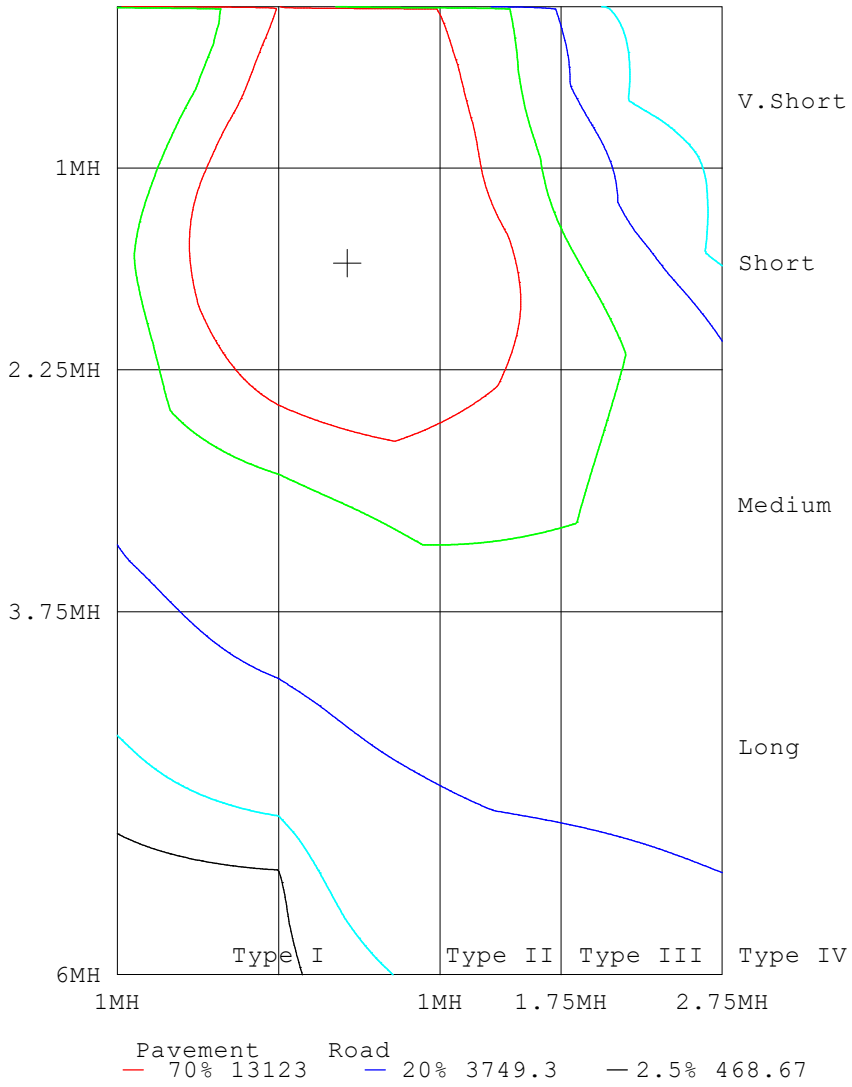
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.41V I:2.4702A P:296.66W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:49525.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 5000K	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:120.41V I:2.4702A P:296.66W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:49525.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 5000K	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	1312	1313	1314	1315	1317	1318	1319	1318	1319	1318	1319	1318	1312	1313	1314	1315	1317	1318	1319
5	1334	1347	1358	1365	1369	1369	1366	1360	1353	1343	1333	1320	1299	1286	1272	1259	1252	1247	1249
10	1365	1389	1404	1410	1411	1406	1398	1388	1377	1365	1350	1330	1299	1268	1233	1199	1173	1156	1156
15	1404	1437	1452	1451	1444	1430	1416	1402	1393	1383	1370	1348	1309	1261	1201	1137	1083	1048	1042
20	1448	1489	1501	1491	1471	1446	1425	1409	1401	1397	1389	1371	1328	1263	1173	1073	991	938	927
25	1497	1546	1552	1531	1499	1463	1433	1415	1409	1409	1408	1394	1349	1266	1141	1008	906	845	834
30	1548	1603	1602	1573	1530	1473	1427	1413	1418	1420	1422	1417	1368	1263	1104	946	836	769	753
35	1608	1666	1645	1600	1537	1450	1387	1380	1408	1429	1437	1436	1381	1253	1069	899	778	702	682
40	1665	1714	1674	1606	1508	1389	1341	1316	1366	1424	1446	1453	1395	1248	1045	851	713	632	610
45	1708	1759	1699	1589	1437	1341	1306	1276	1288	1398	1450	1471	1416	1256	1024	793	636	566	547
50	1755	1810	1712	1541	1373	1284	1213	1218	1236	1338	1449	1499	1449	1265	1002	716	556	500	472
55	1782	1858	1703	1458	1290	1098	942	1033	1170	1264	1437	1546	1498	1272	970	607	458	344	286
60	1735	1872	1660	1381	1079	592	344	509	967	1207	1401	1610	1558	1262	907	459	291	193	173
65	1547	1781	1551	1278	645	129	80.2	109	510	1111	1334	1675	1604	1215	774	284	169	89.5	87.6
70	1064	1346	1298	1074	186	55.1	55.5	56.4	128	857	1255	1616	1527	1100	483	144	69.5	66.6	73.3
75	573	855	926	589	48.1	42.7	40.9	44.2	46.1	441	1181	1146	989	749	126	68.2	48.8	52.9	65.6
80	38.4	236	476	77.1	28.5	27.9	26.5	29.2	29.9	69.5	733	637	438	182	55.9	41.0	32.3	38.9	48.3
85	12.1	37.6	46.1	15.2	14.8	13.6	13.3	14.9	17.1	19.8	106	111	46.8	76.4	16.1	22.2	18.0	32.0	33.6
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
Test Date:2024-12-10

γ Range: 0 - 180DEG
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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:120.41V I:2.4702A P:296.66W PF:0.9974 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:49525.5x1 lm		
NAME: SB10-500W	TYPE: 300W	WEIGHT:
SPEC.: 5000K	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	1318	1319	1318	1319	1318														
5	1255	1268	1285	1305	1324														
10	1170	1202	1242	1290	1335														
15	1063	1117	1190	1275	1352														
20	954	1023	1126	1253	1370														
25	864	937	1059	1226	1388														
30	787	865	998	1200	1410														
35	713	797	948	1187	1444														
40	637	717	896	1187	1488														
45	564	628	823	1180	1512														
50	487	535	713	1164	1526														
55	311	406	553	1110	1504														
60	176	233	374	972	1403														
65	82.8	122	202	658	1187														
70	65.1	59.6	92.5	226	843														
75	52.6	43.8	52.2	56.3	296														
80	43.4	29.8	29.7	28.6	42.0														
85	34.3	15.4	13.9	12.0	13.3														
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: