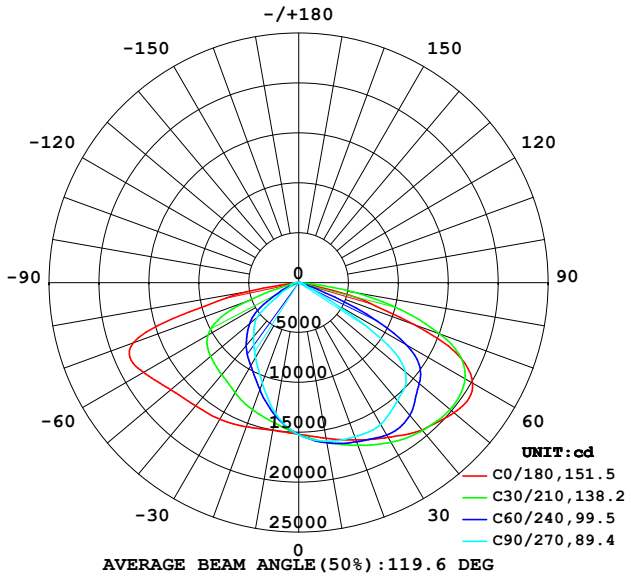
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.27V I:2.7761A P:333.22W PF:0.9980 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:57124.7x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

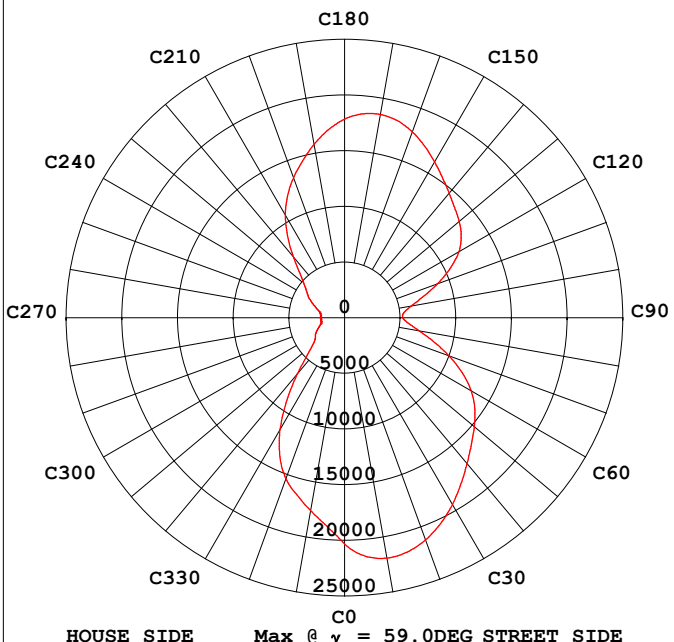
DATA OF LAMP		PHOTOMETRIC DATA Eff: 169.82 lm/W			
MODEL	SB10-500W	Imax(cd)	21777	η street_up(%)	0.0
NOMINAL POWER(W)	350	LOR(%)	99.1	η street_down(%)	61.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	56589	η house_up(%)	0.0
NOMINAL FLUX(lm)	57124.7	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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



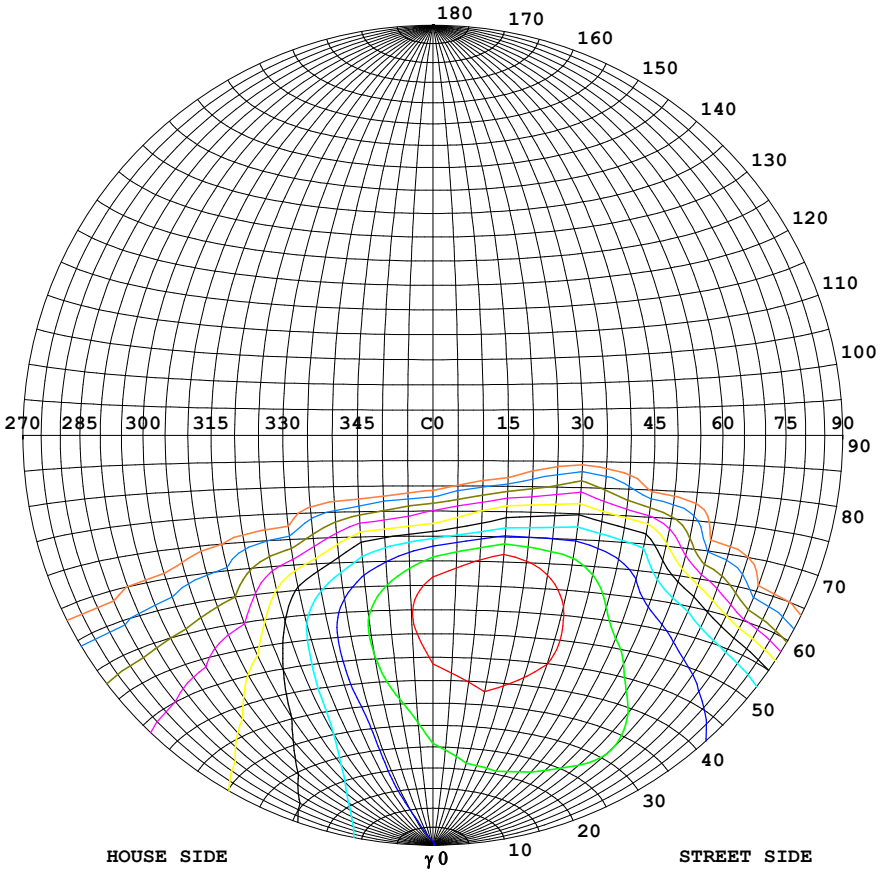
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.27V I:2.7761A P:333.22W PF:0.9980 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:57124.7x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 4000K	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.At80:151.4cd/klm
Max.At90:0cd/klm
Max.80-90:151.4cd/klm
NRB 5101:Semi limited[21.8%]

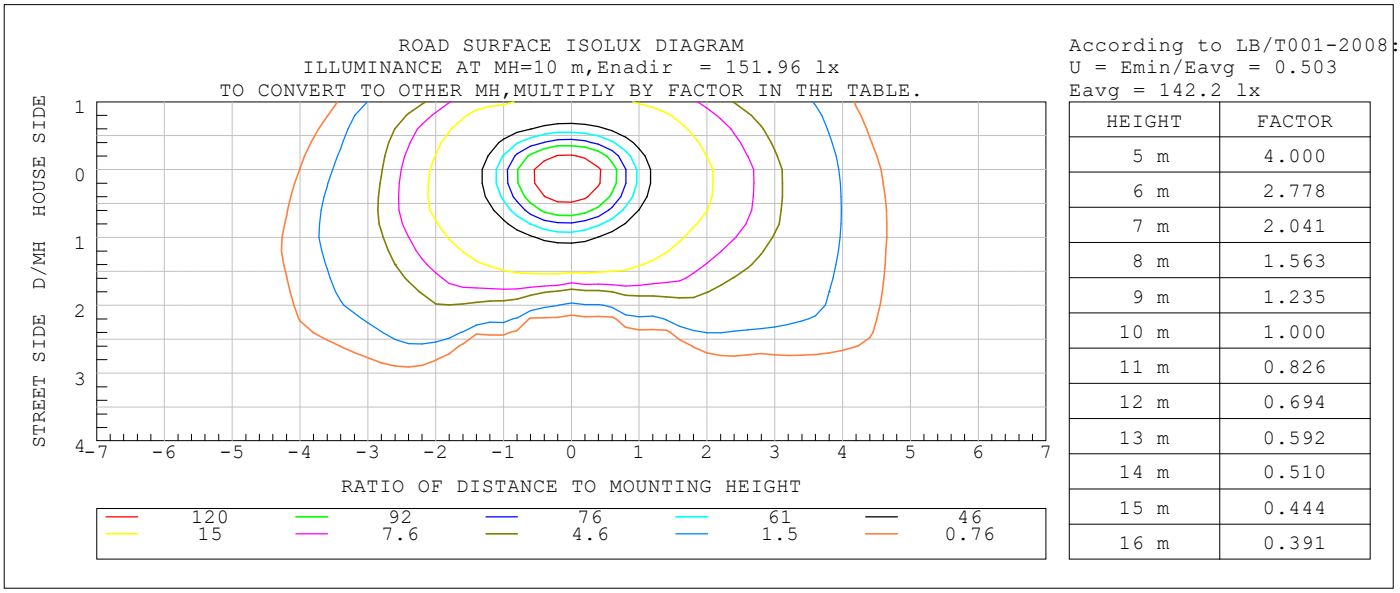
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	21777
90%	19599
80%	17421
70%	15244
60%	13066
50%	10888
40%	8711
30%	6533
20%	4355
10%	2178
5%	1089

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 = 0.503
Eavg = 142.2 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:120.27V I:2.7761A P:333.22W PF:0.9980 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:57124.7x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

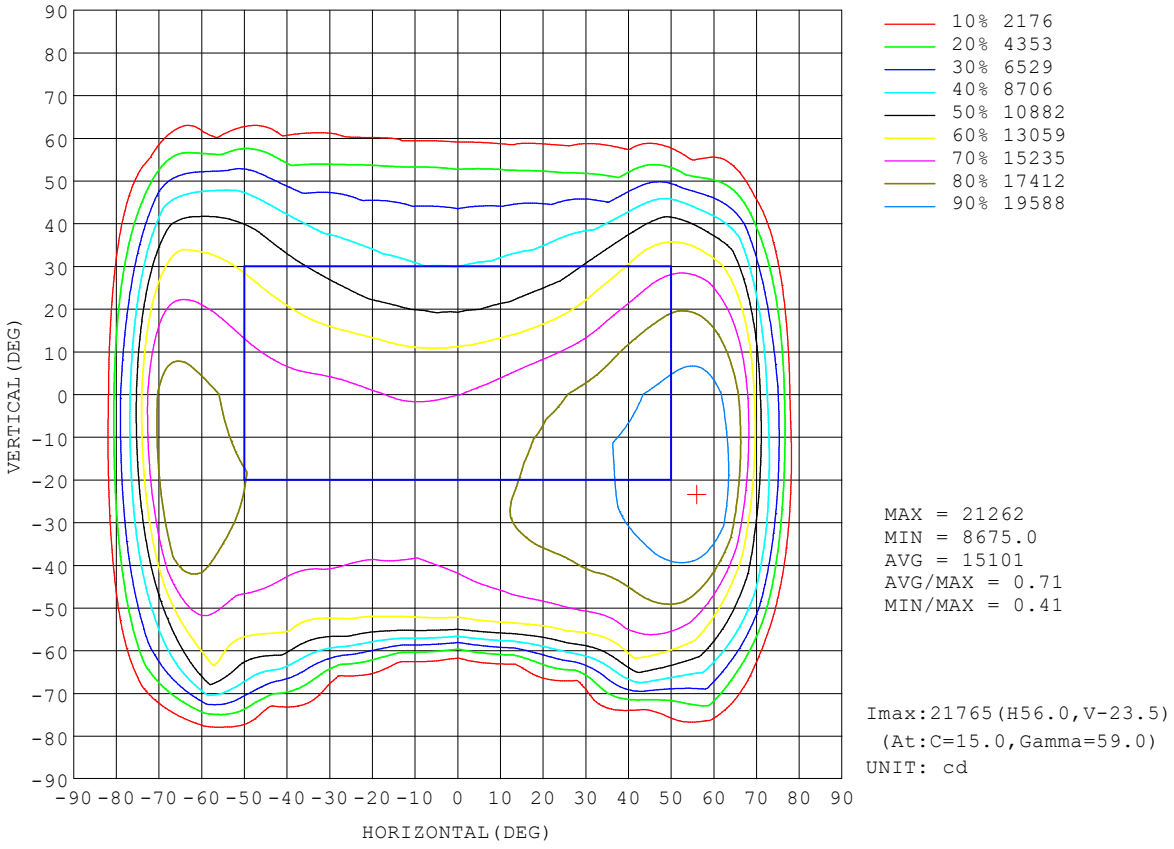
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1583	1630	1614	1574	1503	1385	1335	1435	0- 10	1445	1445	2.55,2.53
20	1678	1721	1644	1610	1537	1238	1069	1300	10- 20	4224	5669	10,9.92
30	1791	1813	1643	1636	1582	1090	867.5	1151	20- 30	6758	12427	22,21.8
40	1925	1849	1541	1638	1611	979.3	703.4	1032	30- 40	8982	21409	37.8,37.5
50	2029	1774	1394	1537	1672	826.2	546.9	823.5	40- 50	10636	32045	56.6,56.1
60	2012	1595	395.2	1385	1797	532.0	198.5	433.9	50- 60	11014	43060	76.1,75.4
70	1226	1256	63.89	985.7	1761	168.3	84.96	107.5	60- 70	8651	51711	91.4,90.5
80	45.40	87.52	30.72	76.81	522.7	47.65	56.02	34.21	70- 80	4300	56011	99,98
90	0	0	0	0	0	0	0	0	80- 90	578.4	56589	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	56589	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	56589	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	56589	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	56589	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	56589	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	56589	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	56589	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	56589	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	56589	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

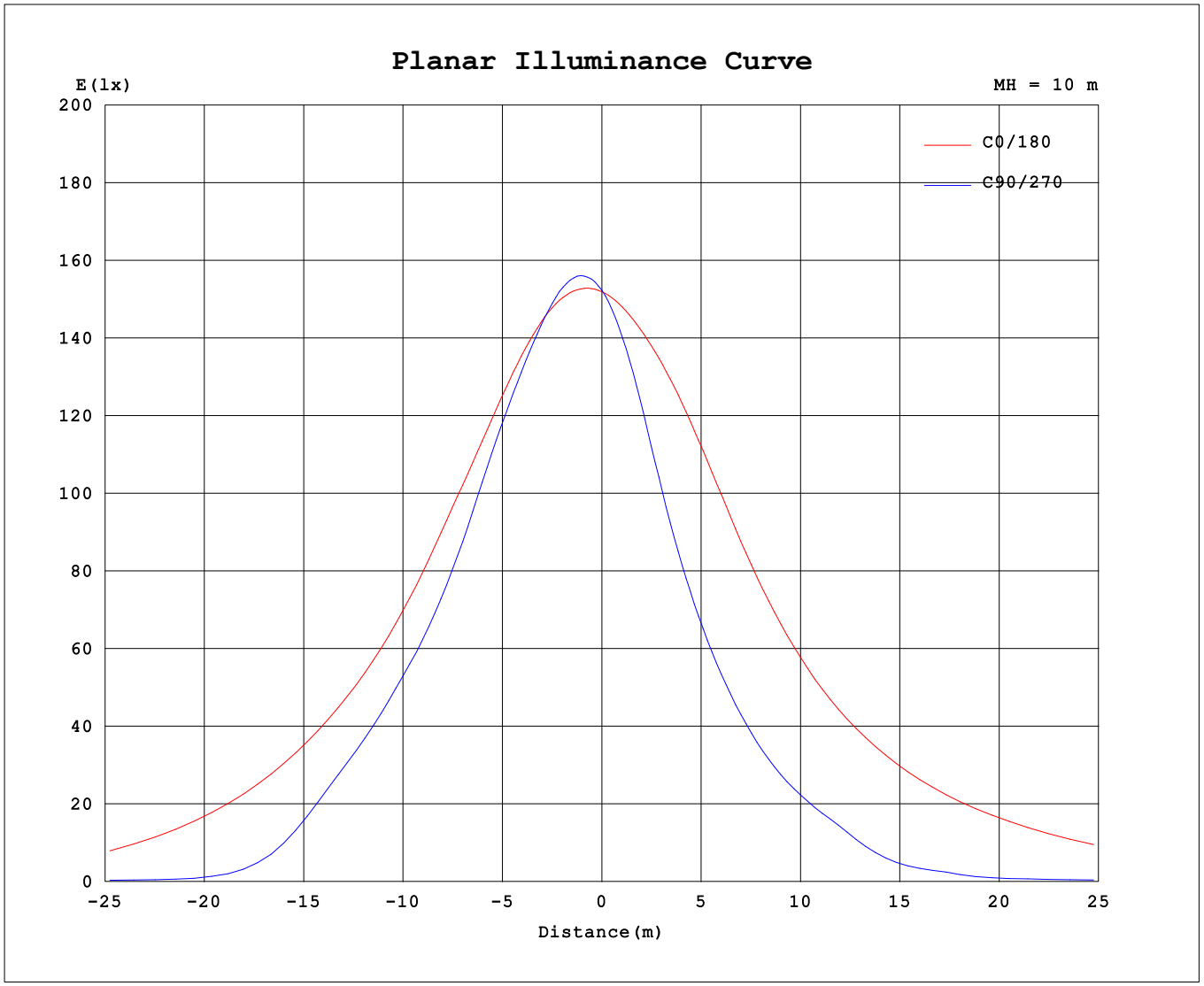
Test:U:120.27V I:2.7761A P:333.22W PF:0.9980 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:57124.7x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



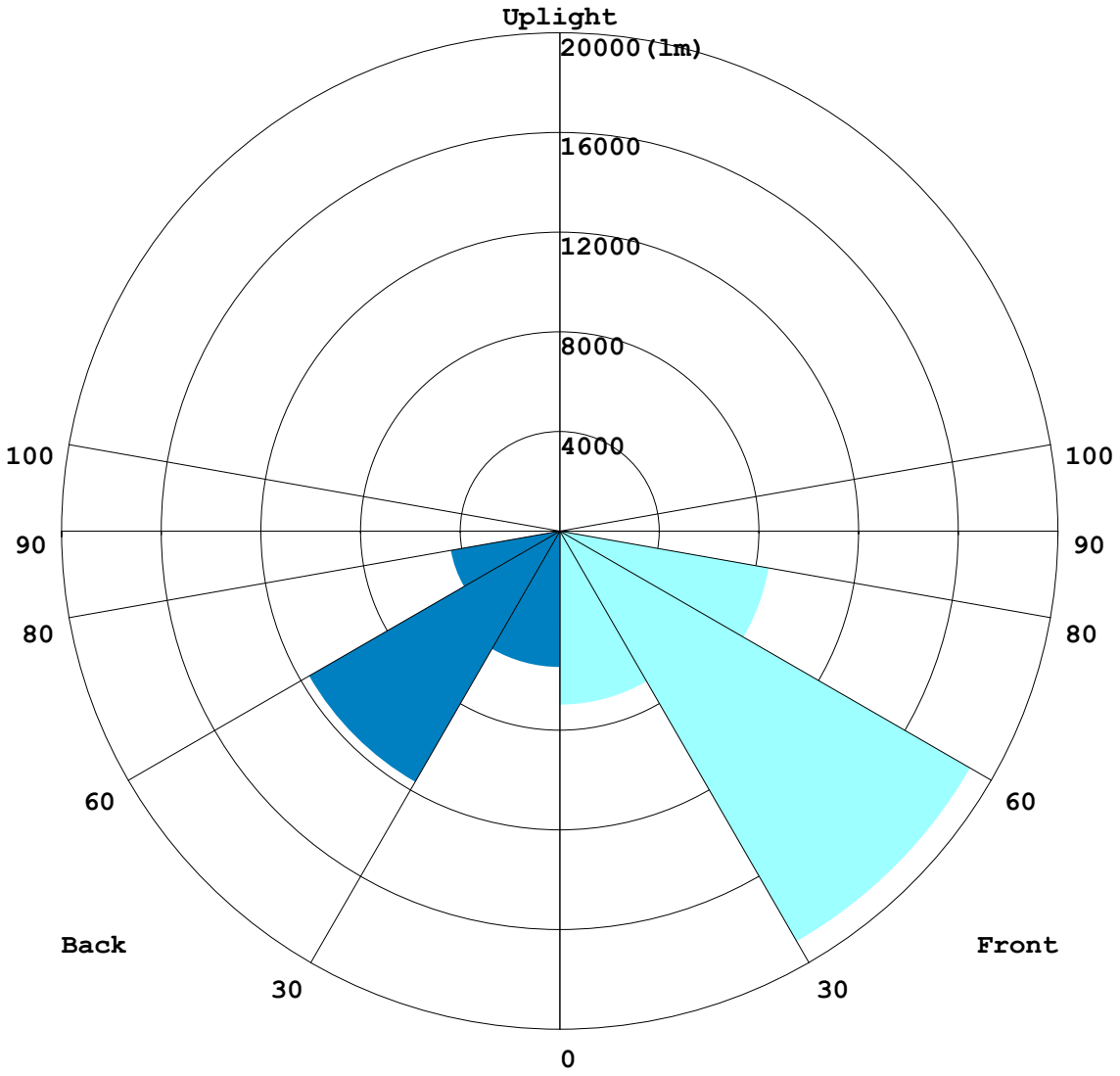
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.27V I:2.7761A P:333.22W PF:0.9980 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:57124.7x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 4000K	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:120.27V I:2.7761A P:333.22W PF:0.9980 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:57124.7x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 4000K	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)	6973.4	12.3
FM - Front-Medium(30-60)	19014	33.6
FH - Front-High(60-80)	8511.3	15.0
FVH - Front-Very High(80-90)	383.03	0.7
Total Forward Light	34881	61.6
BL - Back-Low(0-30)	5453.6	9.6
BM - Back-Medium(30-60)	11619	20.5
BH - Back-High(60-80)	4439.7	7.8
BVH - Back-Very High(80-90)	195.35	0.3
Total Back Light	21708	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	21708	0	21708
Street Side	34881	0	34881

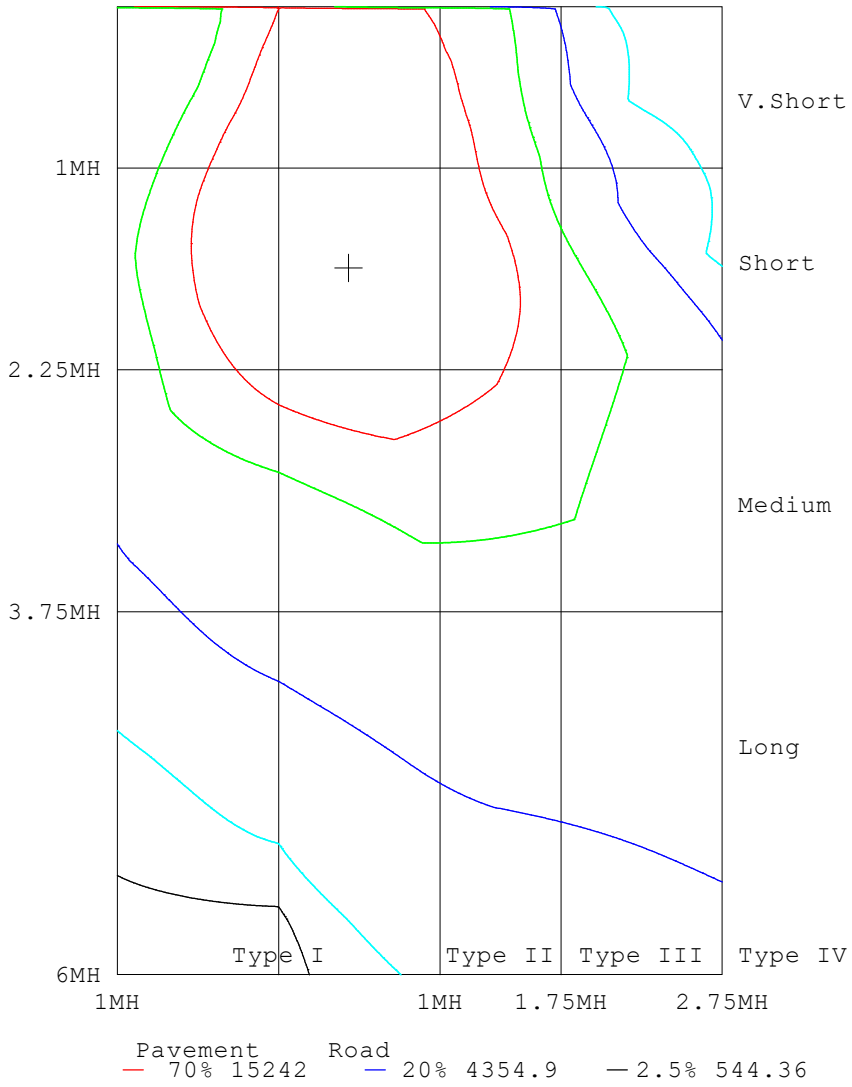
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.27V I:2.7761A P:333.22W PF:0.9980 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:57124.7x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 4000K	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:120.27V I:2.7761A P:333.22W PF:0.9980 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:57124.7x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 4000K	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	1520	1519	1520	1520	1522	1522	1523	1522	1523	1522	1522	1522	1520	1519	1520	1520	1522	1522	1523
5	1546	1560	1571	1577	1582	1581	1578	1570	1562	1550	1538	1524	1506	1488	1471	1455	1446	1440	1442
10	1583	1608	1625	1630	1630	1623	1614	1601	1589	1574	1557	1534	1503	1466	1425	1385	1354	1334	1335
15	1628	1664	1679	1677	1667	1651	1633	1617	1606	1595	1579	1554	1515	1459	1388	1313	1250	1208	1201
20	1678	1723	1735	1721	1697	1668	1644	1625	1615	1610	1602	1581	1537	1461	1355	1238	1143	1081	1069
25	1733	1786	1792	1767	1729	1687	1652	1631	1624	1623	1623	1607	1561	1463	1318	1162	1044	974	962
30	1791	1851	1847	1813	1763	1696	1643	1627	1634	1636	1639	1633	1582	1459	1274	1090	963	885	867
35	1860	1924	1898	1843	1769	1666	1594	1587	1620	1646	1655	1654	1595	1446	1232	1035	895	806	785
40	1925	1981	1932	1849	1733	1596	1541	1512	1570	1638	1664	1673	1611	1439	1203	979	820	729	703
45	1975	2034	1961	1828	1651	1541	1499	1466	1481	1607	1668	1691	1635	1447	1178	913	734	653	633
50	2029	2096	1979	1774	1577	1474	1394	1398	1421	1537	1665	1724	1672	1457	1152	826	643	578	547
55	2063	2154	1972	1681	1484	1267	1089	1194	1347	1451	1650	1777	1729	1464	1118	704	530	395	327
60	2012	2175	1925	1595	1247	685	395	587	1117	1385	1605	1849	1797	1454	1050	532	335	221	199
65	1795	2066	1797	1482	750	149	91.8	124	589	1277	1525	1924	1850	1401	897	331	195	101	99.2
70	1226	1554	1501	1256	203	63.3	63.9	64.9	154	986	1433	1859	1761	1267	563	168	80.2	76.9	85.0
75	665	988	1065	692	55.0	49.2	47.4	50.9	52.5	501	1357	1315	1133	862	145	78.9	56.2	61.3	76.2
80	45.4	268	569	87.5	32.5	32.2	30.7	33.8	34.3	76.8	865	733	523	207	64.7	47.7	37.2	45.0	56.0
85	13.6	43.9	52.1	17.2	16.9	15.7	15.4	17.3	19.5	22.3	130	129	52.9	91.0	18.3	25.6	20.8	37.3	38.6
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
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:120.27V I:2.7761A P:333.22W PF:0.9980 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:57124.7x1 lm		
NAME: SB10-500W	TYPE: 350W	WEIGHT:
SPEC.: 4000K	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	1522	1523	1522	1522	1522														
5	1449	1465	1484	1507	1529														
10	1351	1388	1435	1490	1542														
15	1227	1290	1374	1473	1562														
20	1100	1182	1300	1447	1582														
25	996	1081	1221	1415	1602														
30	907	998	1151	1384	1625														
35	821	919	1092	1368	1664														
40	735	827	1032	1366	1712														
45	653	728	949	1357	1739														
50	564	620	823	1337	1754														
55	358	470	640	1276	1728														
60	208	268	434	1119	1617														
65	94.2	142	236	763	1375														
70	75.3	68.7	107	266	977														
75	60.9	50.4	60.0	64.7	341														
80	50.1	34.3	34.2	32.6	49.3														
85	39.6	17.7	16.0	13.7	17.2														
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: