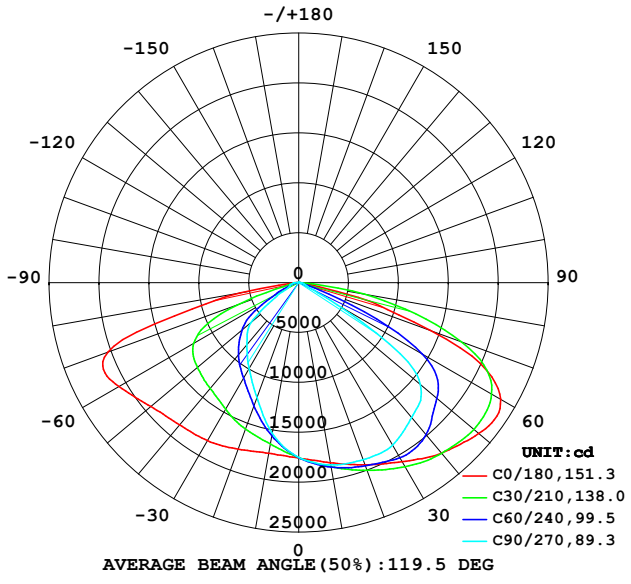
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.16V I:3.6628A P:439.71W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:65673.9x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

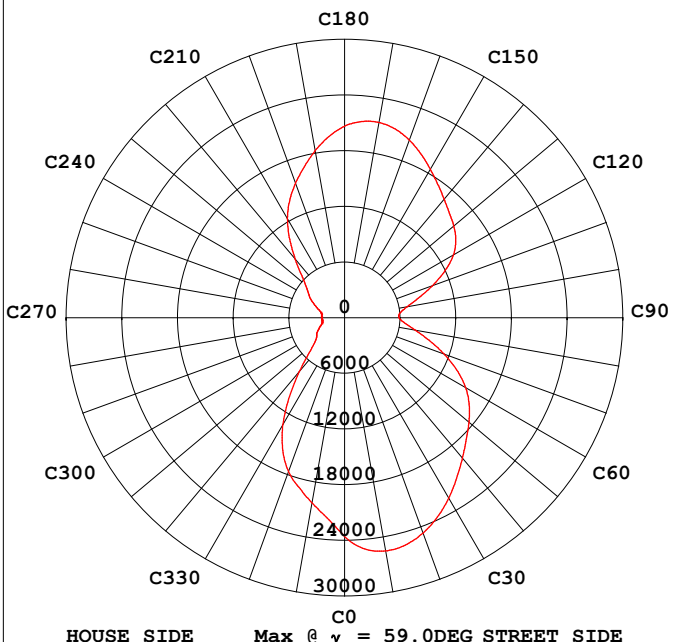
DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.96 lm/W			
MODEL	SB10-500W	Imax(cd)	25353	η street_up(%)	0.0
NOMINAL POWER(W)	450	LOR(%)	99.1	η street_down(%)	61.0
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	65058	η house_up(%)	0.0
NOMINAL FLUX(lm)	65673.9	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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%):119.5 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



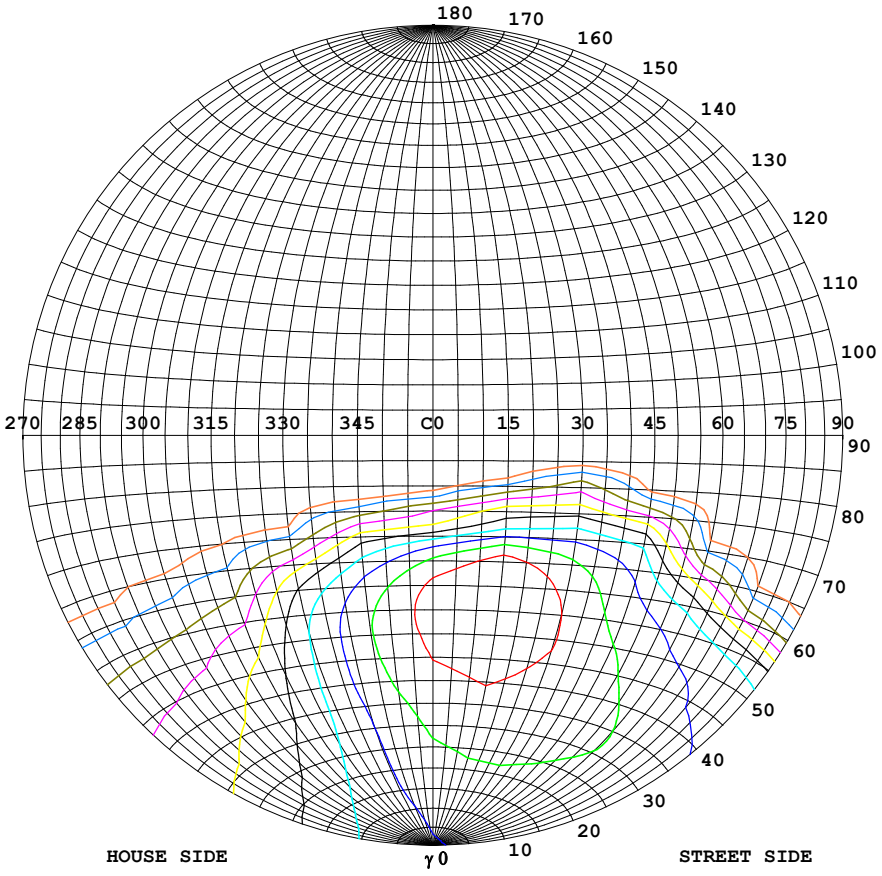
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.16V I:3.6628A P:439.71W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:65673.9x1 lm		
NAME: SB10-500W	TYPE: 450W	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.At80:151.8cd/klm
Max.At90:0cd/klm
Max.80-90:151.8cd/klm
NRB 5101:Semi limited[22.0%]

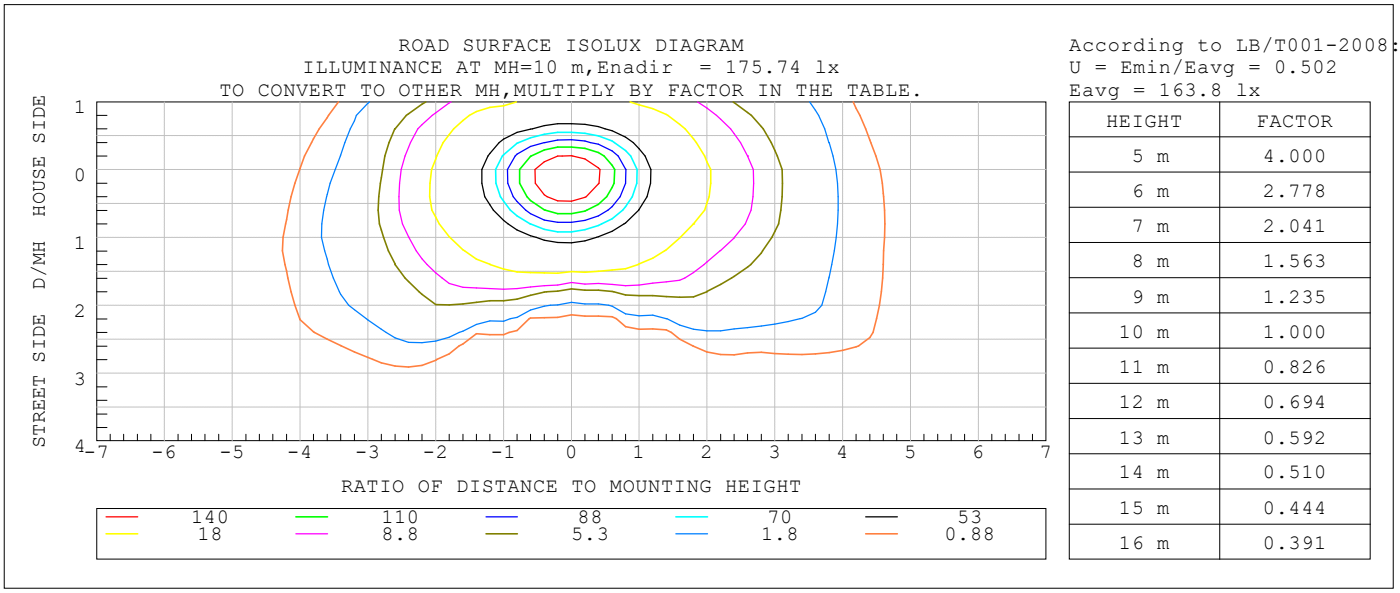
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	25353
90%	22818
80%	20282
70%	17747
60%	15212
50%	12677
40%	10141
30%	7606
20%	5071
10%	2535
5%	1268

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 = 163.8 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:120.16V I:3.6628A P:439.71W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:65673.9x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

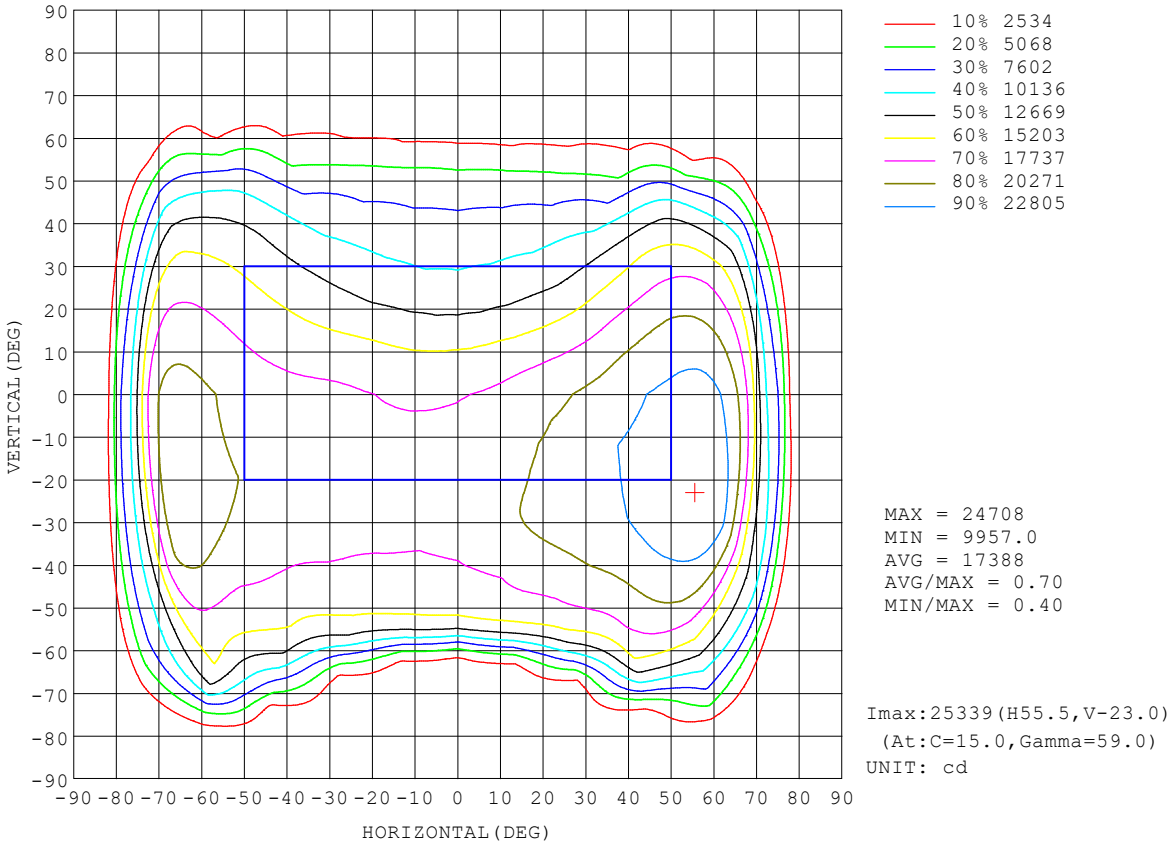
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1833	1877	1854	1808	1737	1594	1533	1647	0- 10	1663	1663	2.56,2.53
20	1941	1983	1886	1848	1776	1425	1226	1492	10- 20	4858	6521	10,9.93
30	2071	2086	1882	1877	1828	1254	995.7	1321	20- 30	7771	14292	22,21.8
40	2229	2126	1763	1876	1860	1125	808.6	1185	30- 40	10323	24615	37.8,37.5
50	2354	2042	1591	1758	1932	952.3	630.7	947.7	40- 50	12232	36847	56.6,56.1
60	2337	1839	444.9	1582	2082	614.4	226.0	500.4	50- 60	12676	49523	76.1,75.4
70	1404	1462	73.07	1117	2033	189.8	98.08	124.1	60- 70	9961	59484	91.4,90.6
80	54.01	95.69	35.57	82.05	595.9	55.20	64.85	39.25	70- 80	4917	64402	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	656.6	65058	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	65058	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	65058	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	65058	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	65058	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	65058	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	65058	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	65058	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	65058	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	65058	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

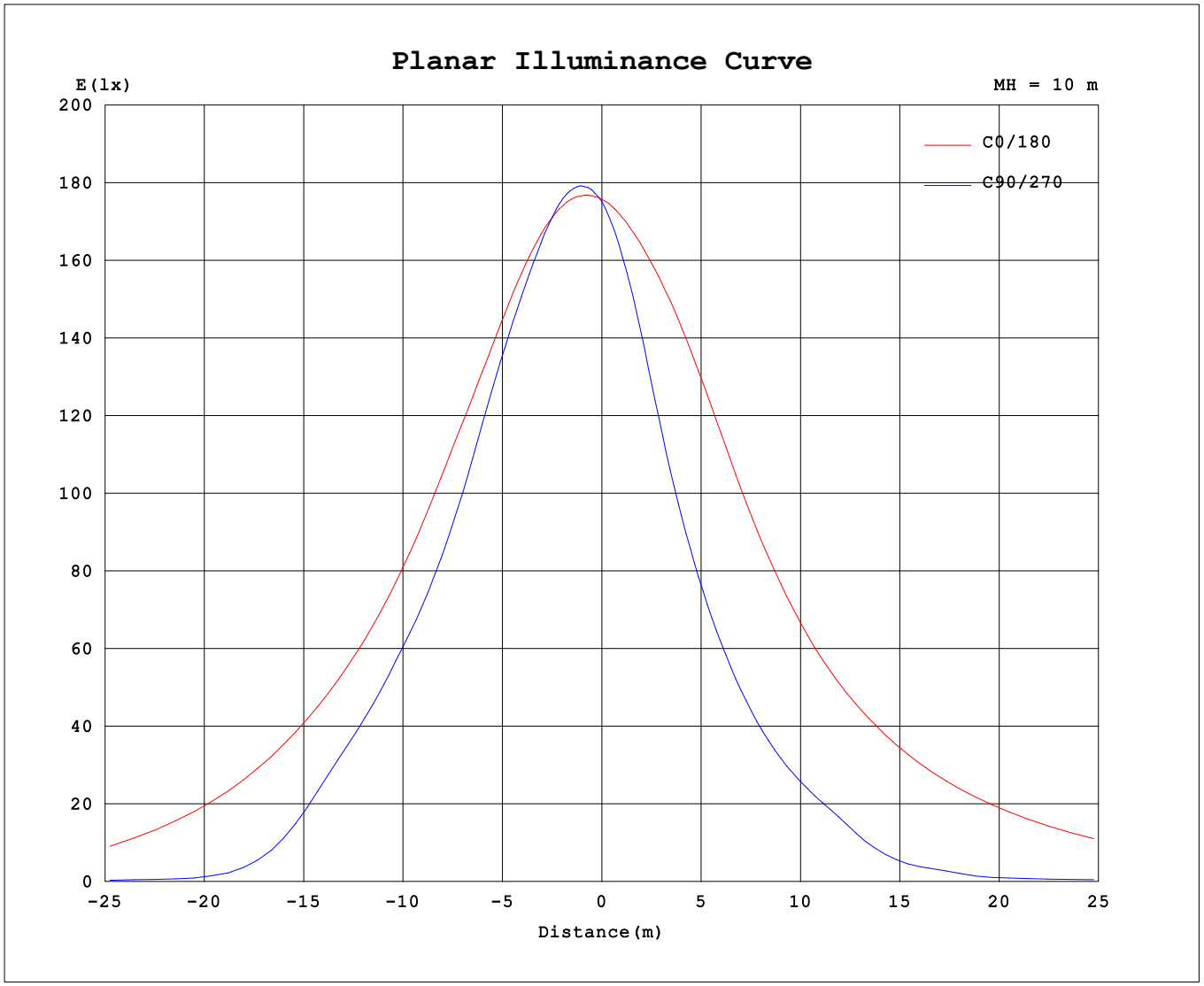
Test:U:120.16V I:3.6628A P:439.71W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:65673.9x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



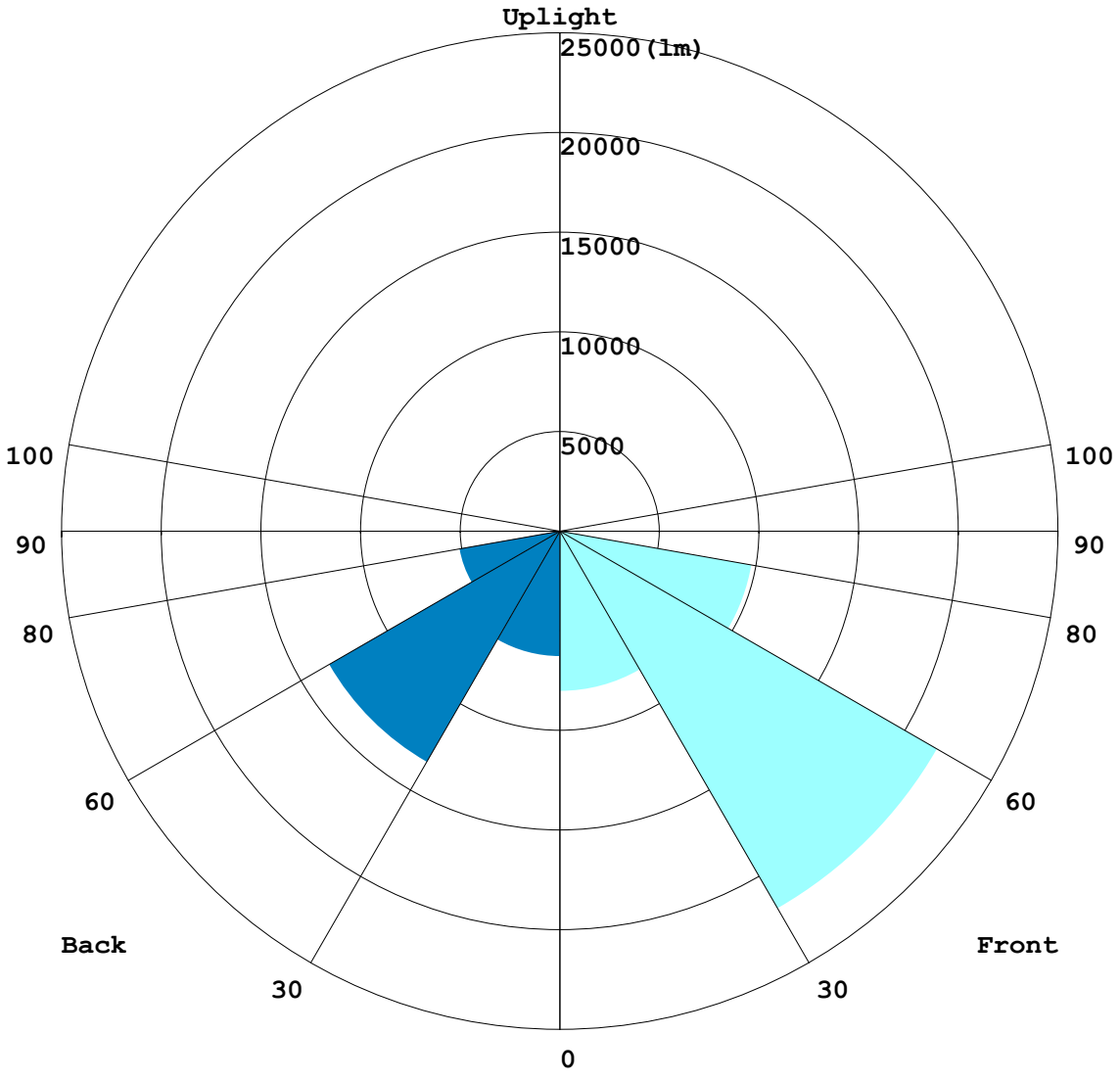
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.16V I:3.6628A P:439.71W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:65673.9x1 lm		
NAME: SB10-500W	TYPE: 450W	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:120.16V I:3.6628A P:439.71W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:65673.9x1 lm		
NAME: SB10-500W	TYPE: 450W	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)	8020.1	12.3
FM - Front-Medium(30-60)	21860	33.6
FH - Front-High(60-80)	9766.3	15.0
FVH - Front-Very High(80-90)	433.35	0.7
Total Forward Light	40079	61.6
BL - Back-Low(0-30)	6272	9.6
BM - Back-Medium(30-60)	13372	20.6
BH - Back-High(60-80)	5112.2	7.9
BVH - Back-Very High(80-90)	223.21	0.3
Total Back Light	24979	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-G5

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	24979	0	24979
Street Side	40079	0	40079

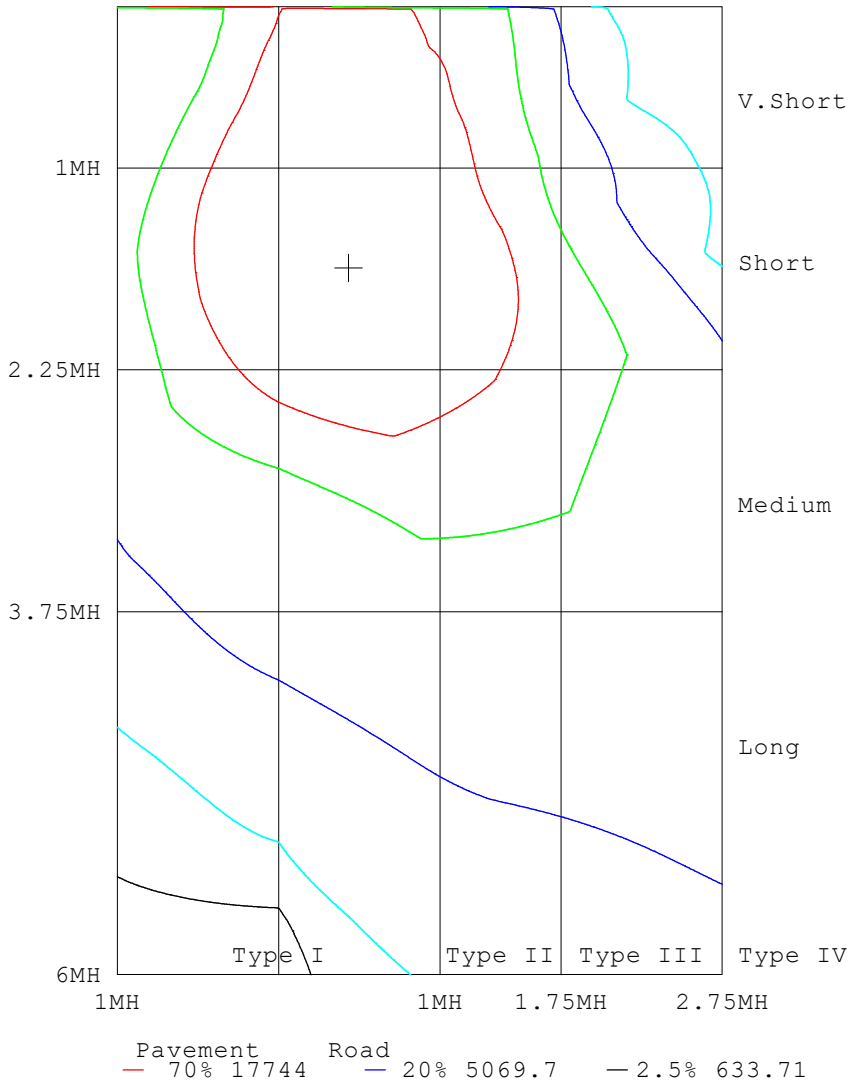
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.16V I:3.6628A P:439.71W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:65673.9x1 lm		
NAME: SB10-500W	TYPE: 450W	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:120.16V I:3.6628A P:439.71W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:65673.9x1 lm		
NAME: SB10-500W	TYPE: 450W	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	1757	1754	1752	1752	1754	1751	1752	1747	1748	1747	1748	1746	1757	1754	1752	1752	1754	1751	1752
5	1788	1801	1813	1817	1821	1818	1811	1802	1792	1780	1765	1747	1740	1717	1696	1676	1664	1656	1658
10	1833	1859	1874	1877	1877	1868	1854	1839	1823	1808	1788	1759	1737	1692	1642	1594	1557	1533	1533
15	1884	1924	1937	1934	1921	1899	1877	1856	1843	1829	1811	1781	1750	1684	1598	1510	1437	1387	1378
20	1941	1992	2001	1983	1954	1918	1886	1862	1852	1848	1837	1813	1776	1687	1563	1425	1314	1242	1226
25	2004	2061	2066	2033	1987	1938	1896	1871	1863	1862	1863	1843	1805	1689	1519	1336	1200	1119	1104
30	2071	2136	2129	2086	2025	1947	1882	1864	1875	1877	1880	1874	1828	1683	1465	1254	1106	1017	996
35	2152	2224	2189	2122	2029	1910	1823	1815	1853	1889	1899	1899	1843	1666	1416	1189	1028	924	899
40	2229	2292	2230	2126	1986	1829	1763	1728	1795	1876	1909	1921	1860	1658	1383	1125	942	837	809
45	2291	2357	2264	2104	1894	1766	1711	1674	1696	1840	1913	1941	1887	1667	1354	1050	845	754	730
50	2354	2432	2290	2042	1806	1686	1591	1596	1627	1758	1909	1980	1932	1679	1325	952	743	668	631
55	2394	2506	2284	1938	1700	1451	1243	1365	1542	1660	1890	2043	2002	1689	1289	814	612	450	372
60	2337	2531	2231	1839	1432	779	445	661	1275	1582	1836	2126	2082	1678	1216	614	384	254	226
65	2079	2396	2080	1716	860	170	104	140	664	1458	1739	2210	2142	1619	1042	383	225	114	112
70	1404	1786	1730	1462	230	72.4	73.1	74.2	172	1117	1633	2130	2033	1458	656	190	92.4	88.5	98.1
75	766	1140	1213	801	62.6	56.5	54.7	58.2	59.1	554	1557	1483	1290	982	165	90.9	64.6	70.8	88.2
80	54.0	294	672	95.7	36.8	36.9	35.6	38.8	39.0	82.1	997	836	596	228	75.1	55.2	42.8	51.6	64.9
85	15.3	50.3	54.0	19.2	18.9	18.1	17.7	20.0	22.0	24.8	138	141	59.4	108	20.8	29.5	24.0	43.0	48.5
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:120.16V I:3.6628A P:439.71W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:65673.9x1 lm		
NAME: SB10-500W	TYPE: 450W	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	1747	1748	1747	1748	1746														
5	1663	1681	1704	1730	1754														
10	1550	1593	1647	1712	1771														
15	1406	1480	1578	1693	1796														
20	1261	1356	1492	1662	1817														
25	1142	1240	1402	1624	1839														
30	1040	1146	1321	1589	1866														
35	943	1055	1255	1570	1908														
40	846	951	1185	1569	1967														
45	755	839	1091	1556	2000														
50	650	717	948	1532	2015														
55	408	539	737	1464	1984														
60	239	307	500	1283	1858														
65	107	164	274	876	1585														
70	86.8	79.1	124	306	1119														
75	70.2	58.0	68.9	74.3	384														
80	57.6	39.4	39.2	37.9	57.6														
85	45.5	20.3	18.3	15.7	19.8														
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: