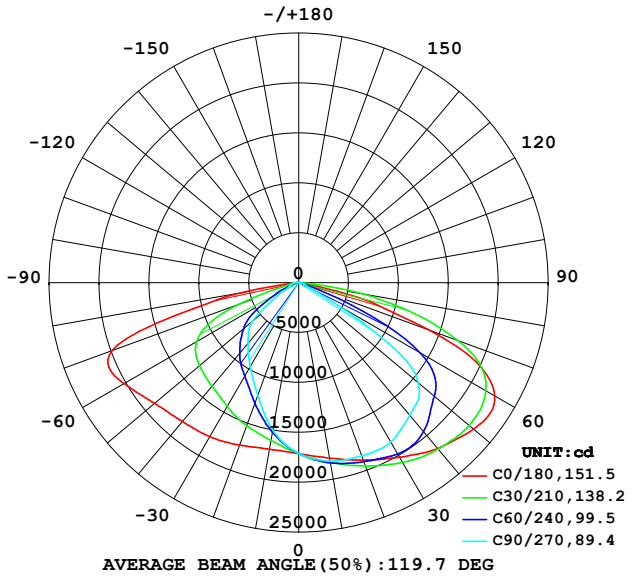
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.71V I:3.1427A P:378.79W PF:0.9985 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:64246.1x1 lm		
NAME: SB10-500W	TYPE: 400W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

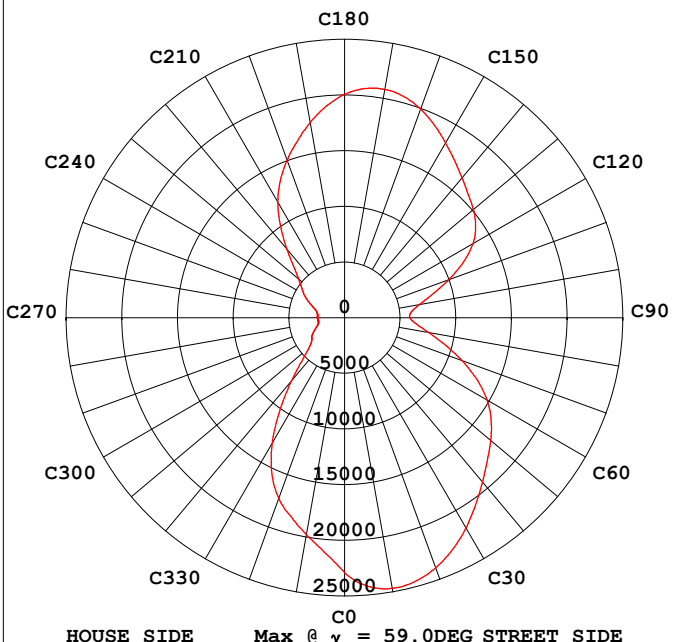
DATA OF LAMP		PHOTOMETRIC DATA Eff: 168.02 lm/W			
MODEL	SB10-500W	Imax(cd)	24520	η street_up(%)	0.0
NOMINAL POWER(W)	400	LOR(%)	99.1	η street_down(%)	61.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	63645	η house_up(%)	0.0
NOMINAL FLUX(lm)	64246.1	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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



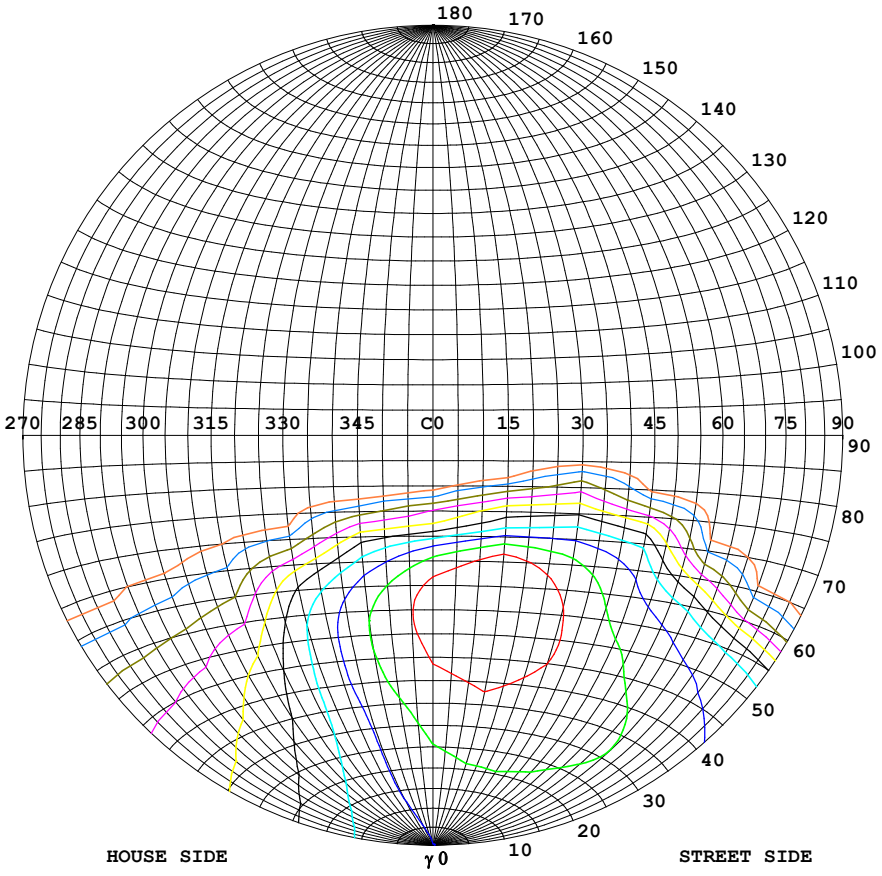
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.71V I:3.1427A P:378.79W PF:0.9985 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:64246.1x1 lm		
NAME: SB10-500W	TYPE: 400W	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.At80:151.0cd/klm
Max.At90:0cd/klm
Max.80-90:151.0cd/klm
NRB 5101:Semi limited[21.8%]

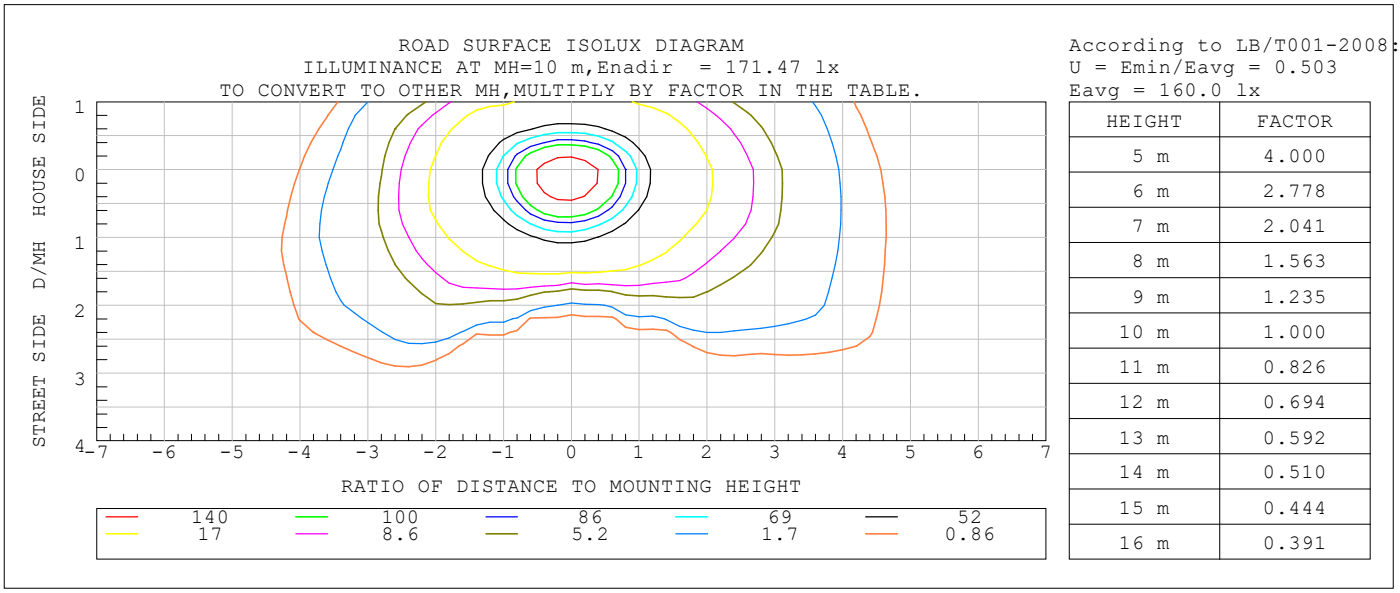
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	24520
90%	22068
80%	19616
70%	17164
60%	14712
50%	12260
40%	9808
30%	7356
20%	4904
10%	2452
5%	1226

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 = 160.0 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:120.71V I:3.1427A P:378.79W PF:0.9985 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:64246.1x1 lm		
NAME: SB10-500W	TYPE: 400W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

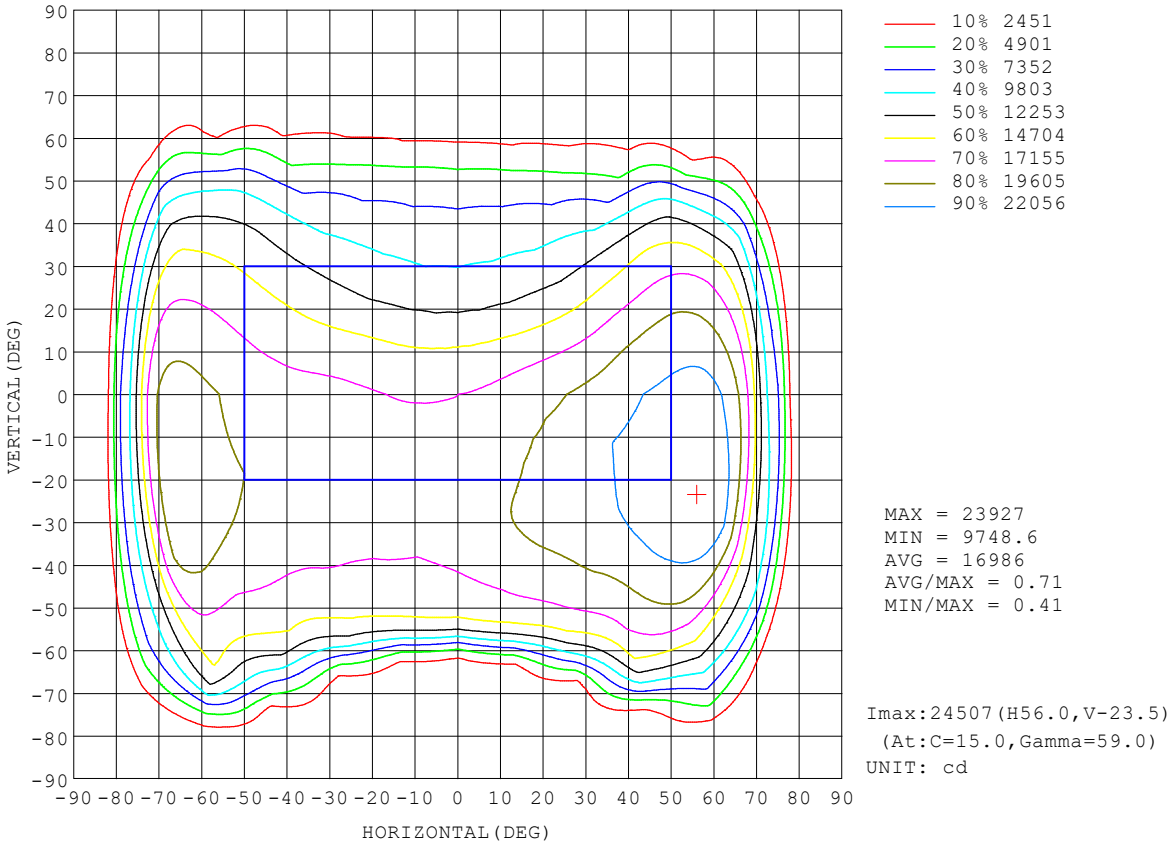
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1785	1836	1814	1767	1695	1559	1501	1612	0- 10	1625	1625	2.55,2.53
20	1892	1938	1848	1808	1733	1394	1201	1460	10- 20	4749	6375	10,9.92
30	2020	2040	1846	1837	1784	1227	974.9	1293	20- 30	7599	13974	22,21.8
40	2169	2080	1732	1840	1815	1102	790.6	1159	30- 40	10100	24074	37.8,37.5
50	2285	1996	1567	1726	1884	930.6	614.1	924.8	40- 50	11960	36034	56.6,56.1
60	2267	1795	445.1	1555	2023	599.9	223.0	487.6	50- 60	12386	48419	76.1,75.4
70	1386	1414	71.75	1106	1985	189.7	95.50	120.7	60- 70	9733	58152	91.4,90.5
80	51.15	98.95	34.56	85.71	592.1	53.65	62.83	38.43	70- 80	4842	62994	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	651.1	63645	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	63645	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	63645	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	63645	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	63645	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	63645	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	63645	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	63645	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	63645	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	63645	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

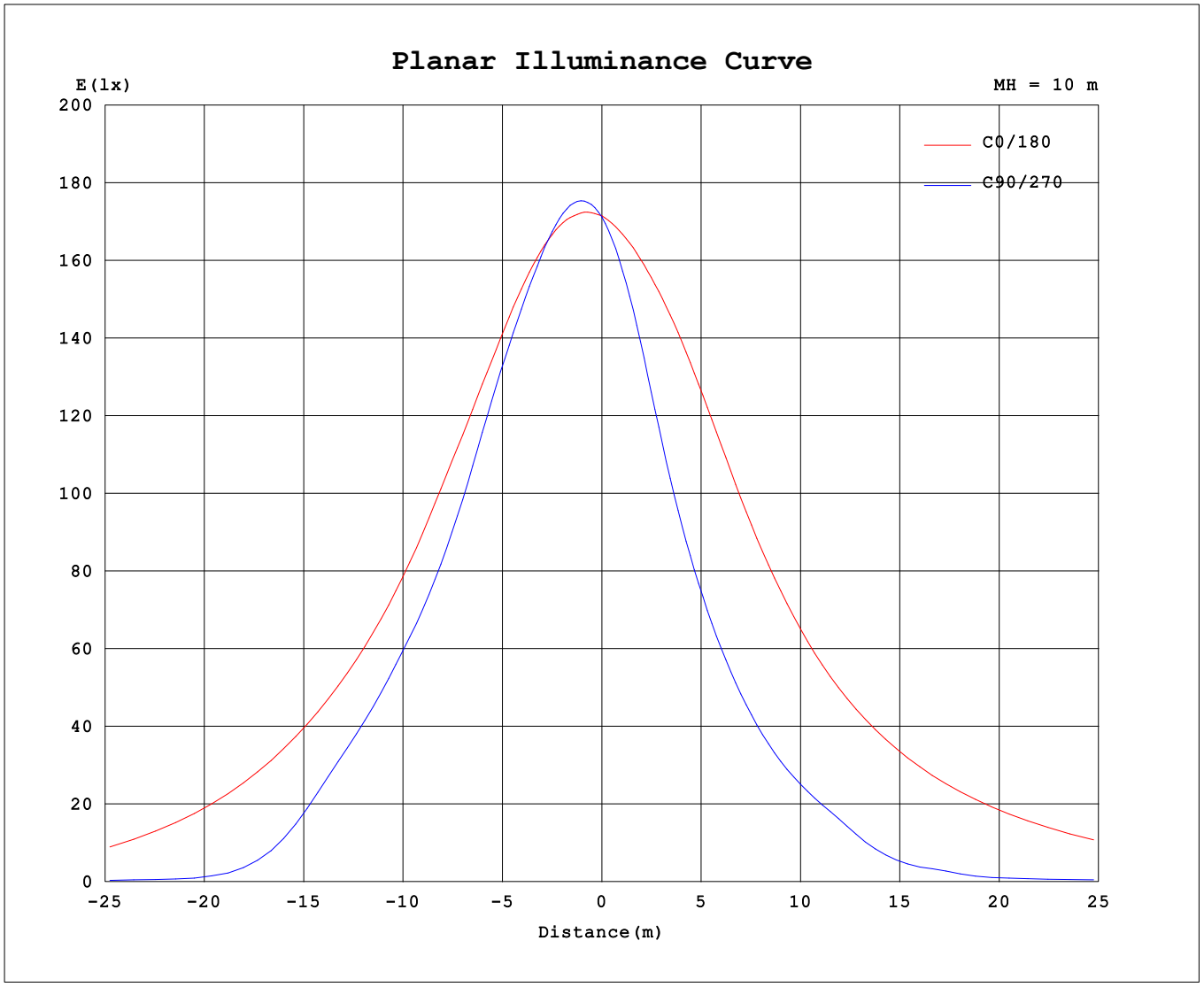
Test:U:120.71V I:3.1427A P:378.79W PF:0.9985 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:64246.1x1 lm		
NAME: SB10-500W	TYPE: 400W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



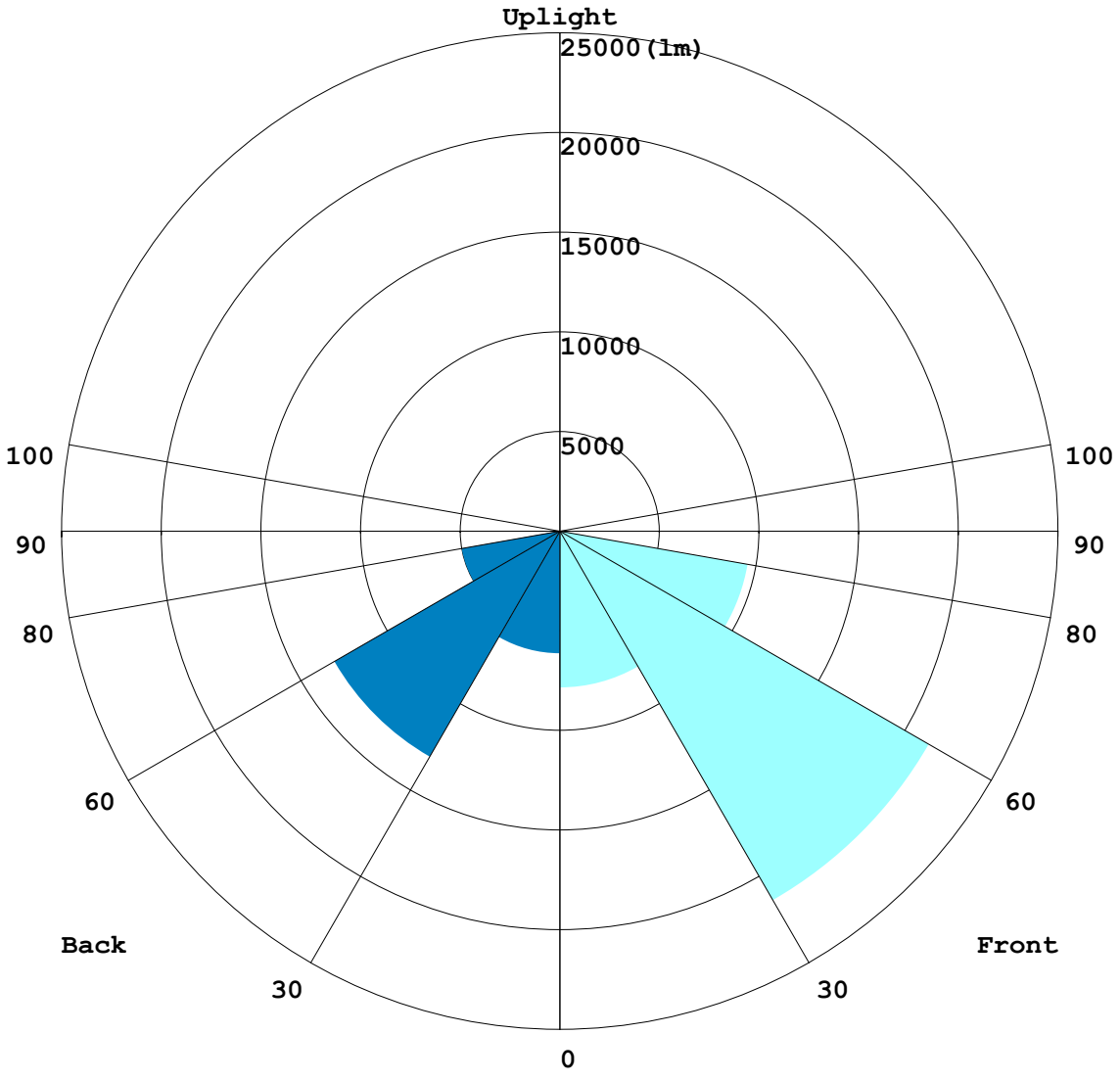
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.71V I:3.1427A P:378.79W PF:0.9985 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:64246.1x1 lm		
NAME: SB10-500W	TYPE: 400W	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:120.71V I:3.1427A P:378.79W PF:0.9985 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:64246.1x1 lm		
NAME: SB10-500W	TYPE: 400W	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)	7841.7	12.3
FM - Front-Medium(30-60)	21378	33.6
FH - Front-High(60-80)	9576.3	15.0
FVH - Front-Very High(80-90)	430.43	0.7
Total Forward Light	39226	61.6
BL - Back-Low(0-30)	6132.4	9.6
BM - Back-Medium(30-60)	13068	20.5
BH - Back-High(60-80)	4998.7	7.9
BVH - Back-Very High(80-90)	220.62	0.3
Total Back Light	24419	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	24419	0	24419
Street Side	39226	0	39226

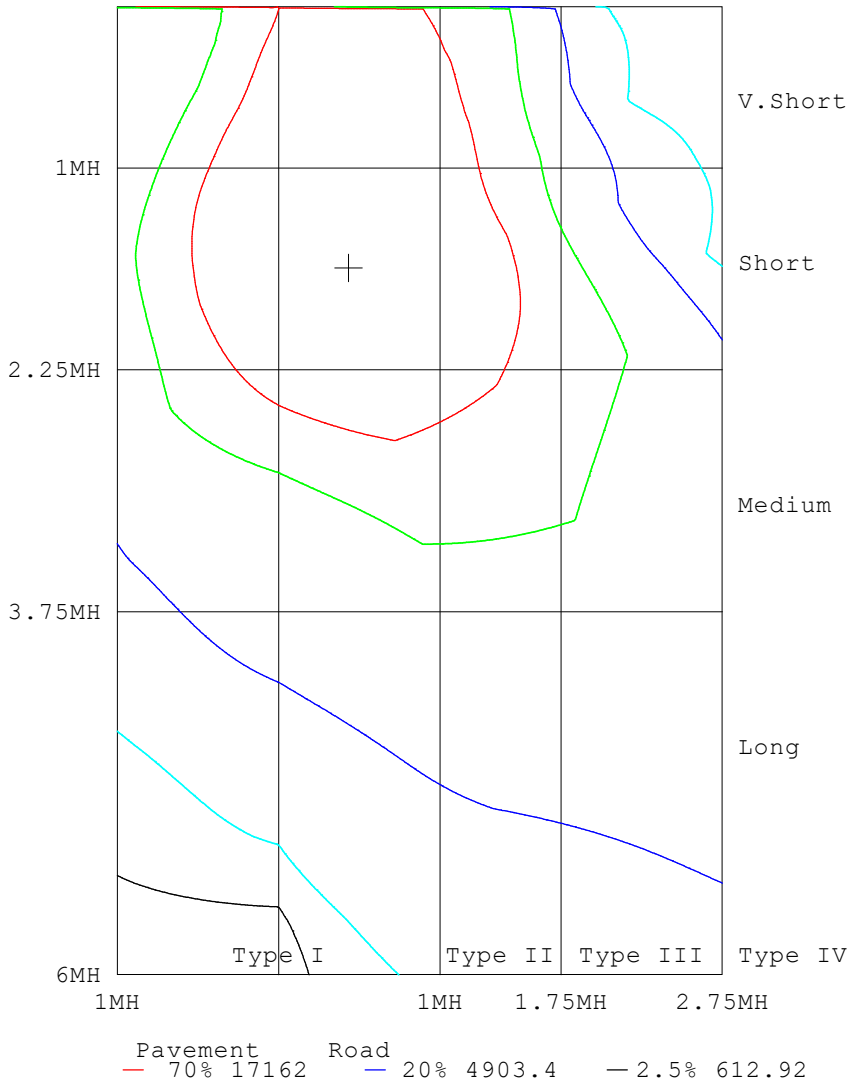
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.71V I:3.1427A P:378.79W PF:0.9985 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:64246.1x1 lm		
NAME: SB10-500W	TYPE: 400W	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:120.71V I:3.1427A P:378.79W PF:0.9985 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:64246.1x1 lm		
NAME: SB10-500W	TYPE: 400W	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	1715	1713	1712	1711	1713	1711	1712	1709	1710	1709	1708	1707	1715	1713	1712	1711	1713	1711	1712
5	1744	1759	1769	1777	1779	1777	1773	1764	1755	1740	1726	1710	1696	1677	1657	1638	1627	1619	1621
10	1785	1814	1830	1836	1834	1825	1814	1799	1784	1767	1748	1722	1695	1653	1606	1559	1524	1500	1501
15	1836	1876	1892	1887	1875	1857	1837	1817	1804	1790	1772	1744	1707	1645	1563	1477	1405	1358	1350
20	1892	1942	1955	1938	1910	1877	1848	1826	1813	1808	1798	1774	1733	1647	1527	1394	1286	1215	1201
25	1954	2014	2019	1988	1944	1896	1856	1833	1824	1823	1822	1804	1760	1650	1484	1308	1174	1095	1080
30	2020	2087	2080	2040	1983	1906	1846	1828	1835	1837	1840	1833	1784	1645	1434	1227	1083	995	975
35	2094	2167	2137	2075	1989	1874	1792	1783	1819	1848	1858	1856	1798	1631	1387	1165	1007	906	881
40	2169	2231	2176	2080	1949	1795	1732	1698	1763	1840	1868	1878	1815	1621	1355	1102	922	819	791
45	2224	2290	2208	2057	1858	1733	1685	1647	1664	1804	1872	1898	1842	1630	1327	1027	825	734	711
50	2285	2360	2228	1996	1774	1658	1567	1571	1597	1726	1869	1934	1884	1643	1298	931	723	650	614
55	2323	2425	2219	1891	1669	1425	1225	1342	1513	1629	1851	1994	1947	1649	1259	792	596	444	367
60	2267	2450	2165	1795	1404	770	445	659	1253	1555	1802	2075	2023	1638	1182	600	377	249	223
65	2026	2330	2023	1669	845	168	103	139	660	1434	1712	2159	2082	1577	1011	373	219	114	111
70	1386	1757	1692	1414	228	71.1	71.8	72.9	173	1106	1609	2085	1985	1427	635	190	90.1	86.4	95.5
75	751	1115	1202	781	61.9	55.3	53.3	57.1	58.8	562	1524	1473	1284	972	164	88.8	63.1	68.9	85.7
80	51.1	305	643	99.0	36.5	36.2	34.6	37.8	38.5	85.7	970	822	592	235	72.9	53.6	41.7	50.5	62.8
85	15.4	49.7	59.3	19.3	18.7	17.7	17.3	19.4	21.8	25.0	146	144	60.0	103	20.6	28.8	23.4	42.0	48.2
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
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:120.71V I:3.1427A P:378.79W PF:0.9985 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:64246.1x1 lm		
NAME: SB10-500W	TYPE: 400W	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	1709	1710	1709	1708	1707														
5	1627	1646	1666	1691	1714														
10	1517	1559	1612	1672	1730														
15	1378	1448	1543	1653	1753														
20	1235	1327	1460	1624	1775														
25	1118	1214	1372	1588	1797														
30	1018	1120	1293	1553	1824														
35	923	1032	1227	1536	1868														
40	826	929	1159	1534	1922														
45	734	817	1066	1523	1952														
50	634	697	925	1502	1969														
55	402	528	720	1434	1940														
60	234	302	488	1257	1816														
65	106	160	265	858	1544														
70	84.6	77.2	121	299	1097														
75	68.4	56.6	67.4	72.7	384														
80	56.4	38.4	38.4	37.4	55.4														
85	44.5	19.9	17.9	15.4	19.4														
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: