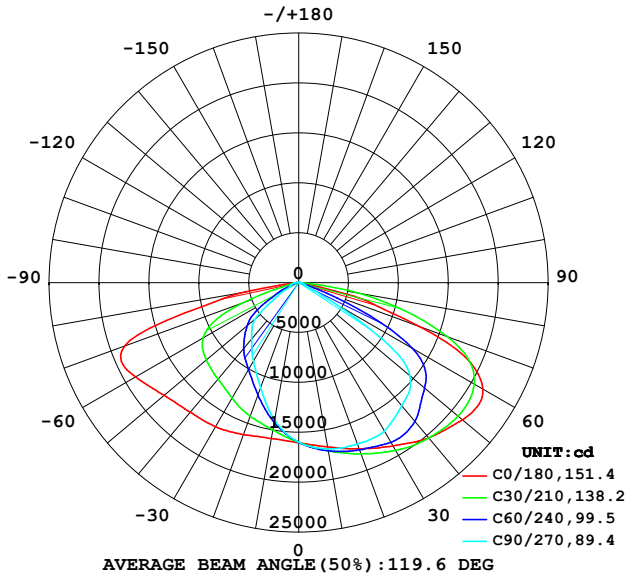
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.67V I:3.2431A P:390.80W PF:0.9987 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:59905.6x1 lm		
NAME: SB10-500W	TYPE: 400W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

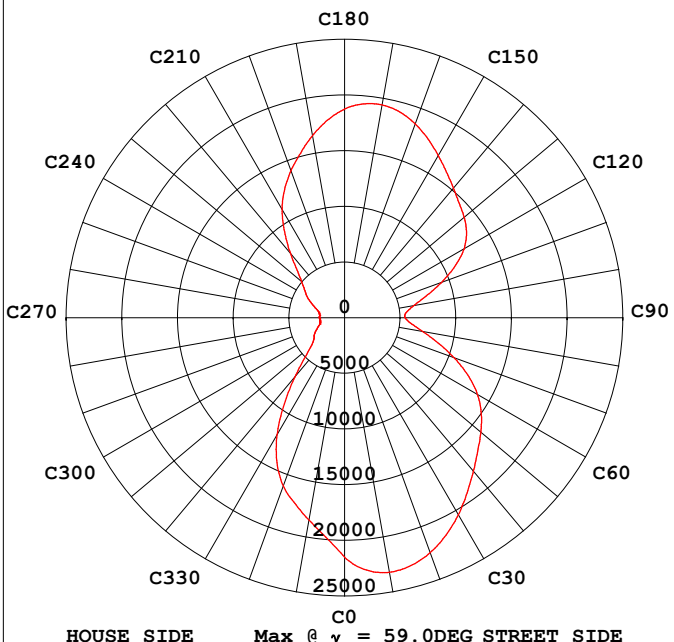
DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.86 lm/W			
MODEL	SB10-500W	Imax(cd)	23049	η street_up(%)	0.0
NOMINAL POWER(W)	400	LOR(%)	99.1	η street_down(%)	61.0
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	59347	η house_up(%)	0.0
NOMINAL FLUX(lm)	59905.6	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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



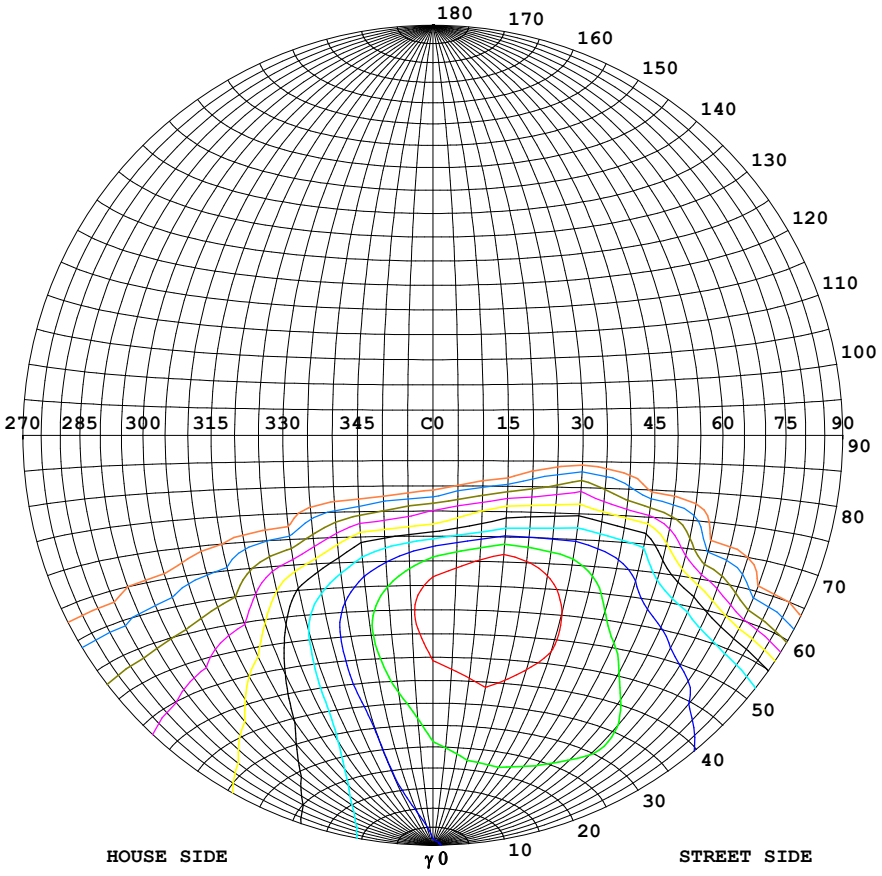
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.67V I:3.2431A P:390.80W PF:0.9987 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:59905.6x1 lm		
NAME: SB10-500W	TYPE: 400W	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.At80:154.1cd/klm
Max.At90:0cd/klm
Max.80-90:154.1cd/klm
NRB 5101:Semi limited[22.0%]

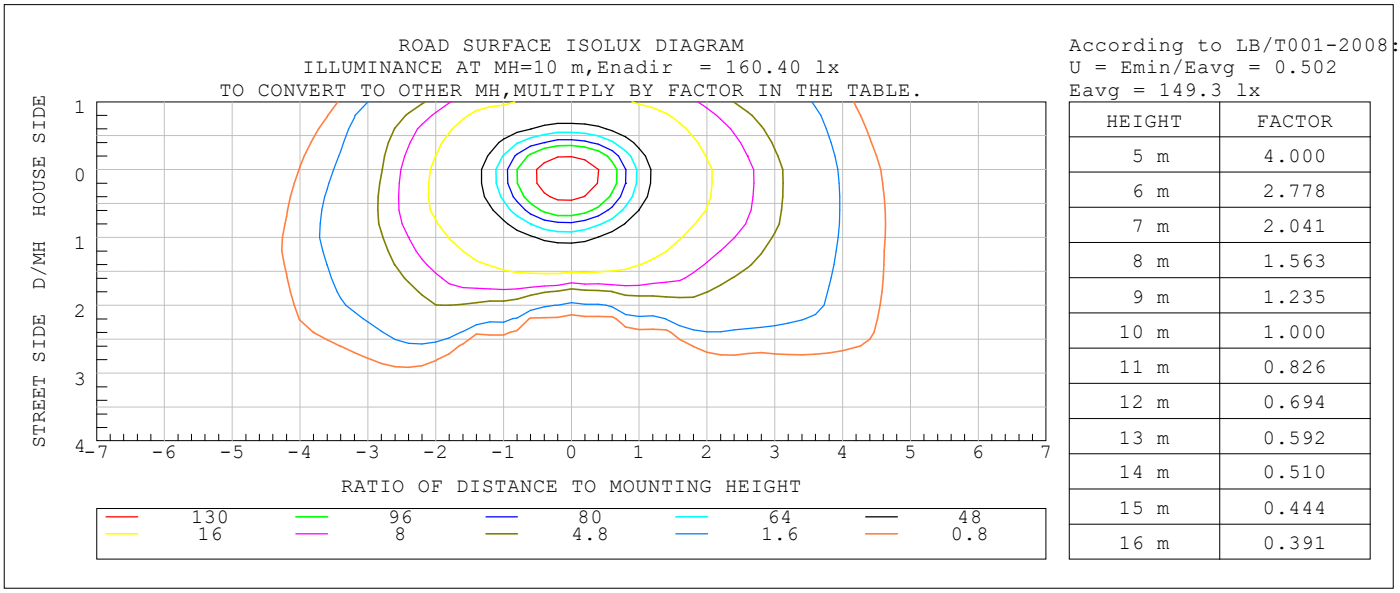
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	23049
90%	20744
80%	18439
70%	16135
60%	13830
50%	11525
40%	9220
30%	6915
20%	4610
10%	2305
5%	1152

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 = 149.3 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:120.67V I:3.2431A P:390.80W PF:0.9987 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:59905.6x1 lm		
NAME: SB10-500W	TYPE: 400W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

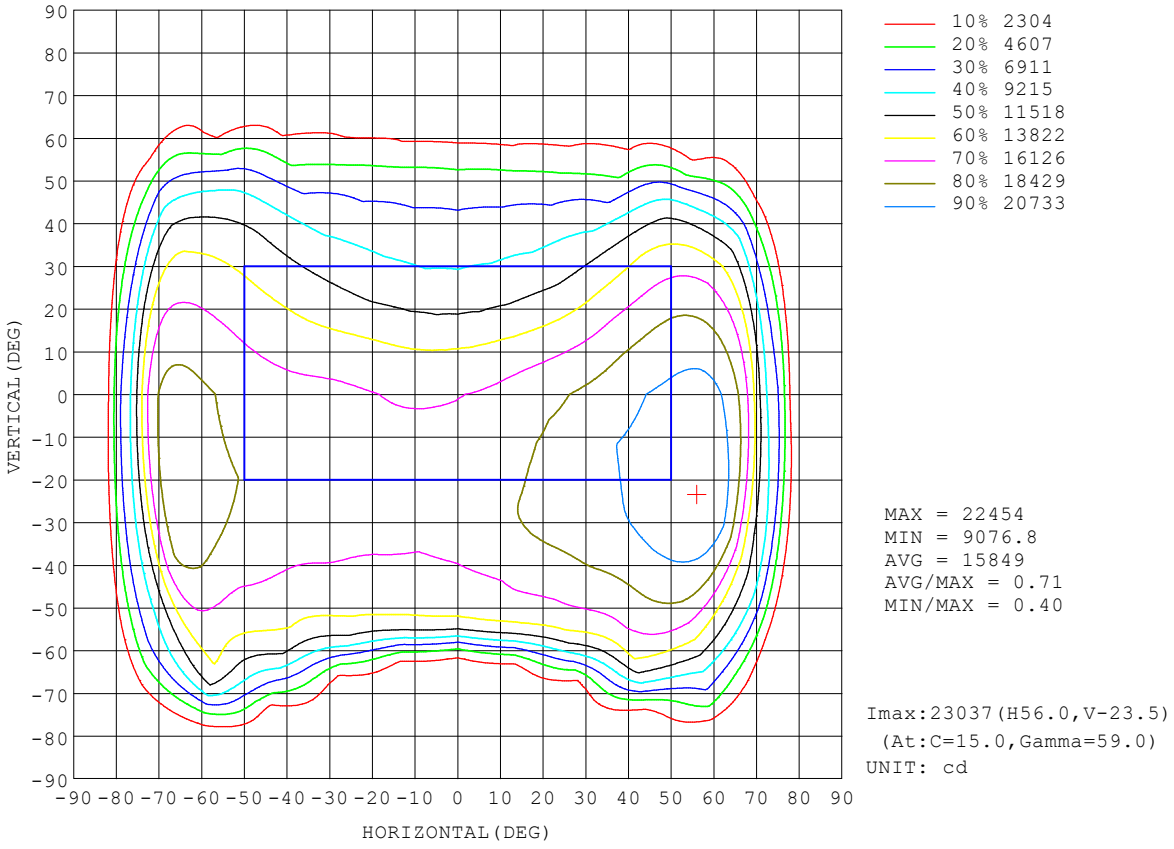
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1673	1715	1692	1649	1585	1455	1399	1503	0- 10	1518	1518	2.56,2.53
20	1772	1809	1721	1685	1620	1300	1119	1363	10- 20	4433	5951	10,9.93
30	1889	1902	1717	1711	1668	1144	907.7	1206	20- 30	7088	13039	22,21.8
40	2029	1938	1609	1712	1695	1026	737.0	1080	30- 40	9410	22449	37.8,37.5
50	2139	1860	1454	1601	1759	867.4	575.6	864.7	40- 50	11144	33593	56.6,56.1
60	2130	1676	409.5	1441	1889	561.6	206.6	457.3	50- 60	11552	45145	76.1,75.4
70	1289	1336	66.75	1024	1853	177.8	89.42	113.6	60- 70	9089	54235	91.4,90.5
80	49.91	89.00	32.41	75.73	551.6	50.41	58.96	35.77	70- 80	4506	58741	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	606.2	59347	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	59347	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	59347	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	59347	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	59347	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	59347	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	59347	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	59347	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	59347	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	59347	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

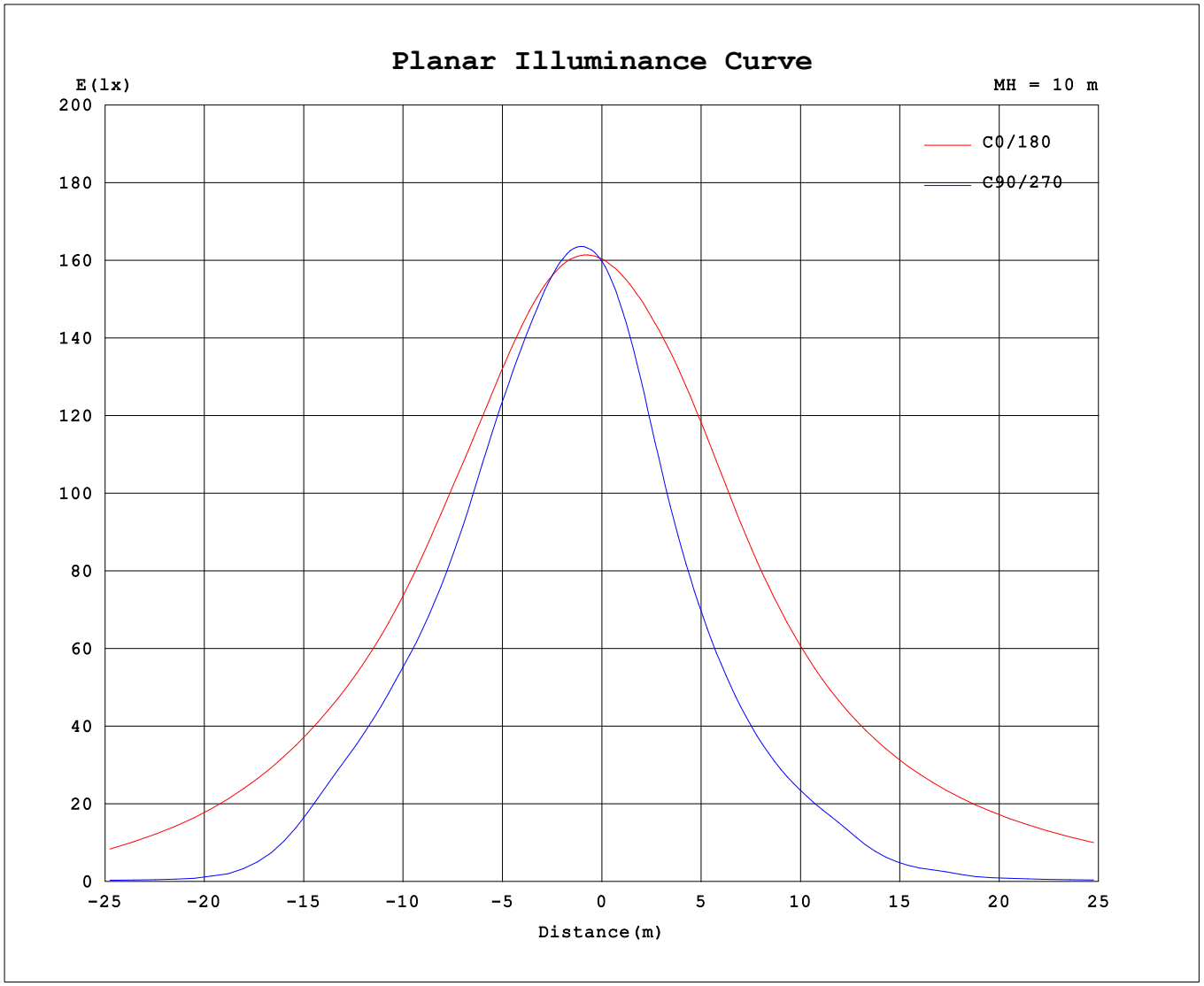
Test:U:120.67V I:3.2431A P:390.80W PF:0.9987 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:59905.6x1 lm		
NAME: SB10-500W	TYPE: 400W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



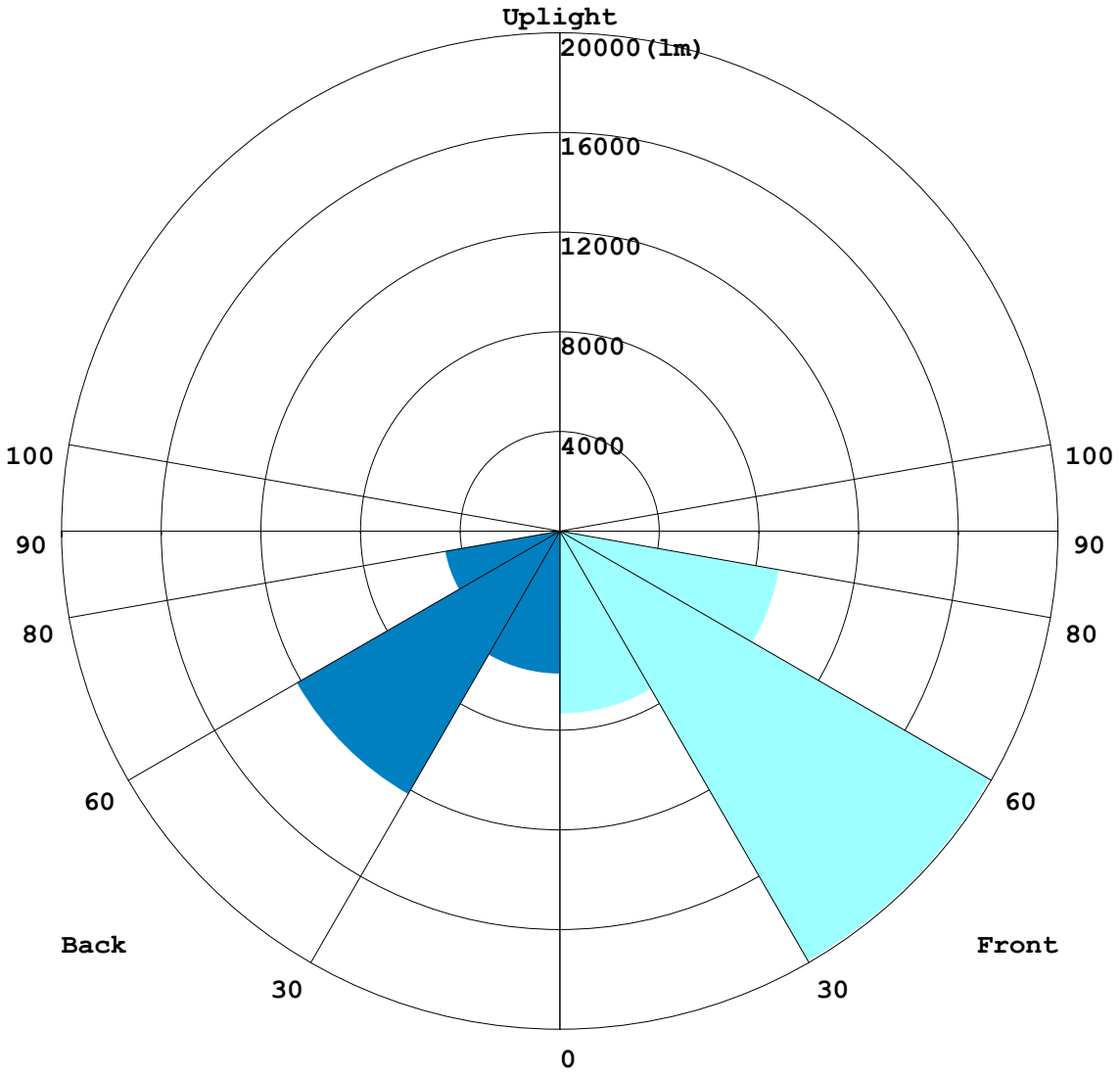
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.67V I:3.2431A P:390.80W PF:0.9987 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:59905.6x1 lm		
NAME: SB10-500W	TYPE: 400W	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:120.67V I:3.2431A P:390.80W PF:0.9987 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:59905.6x1 lm		
NAME: SB10-500W	TYPE: 400W	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)	7316	12.3
FM - Front-Medium(30-60)	19921	33.6
FH - Front-High(60-80)	8926.5	15.0
FVH - Front-Very High(80-90)	401.09	0.7
Total Forward Light	36565	61.6
BL - Back-Low(0-30)	5722.9	9.6
BM - Back-Medium(30-60)	12185	20.5
BH - Back-High(60-80)	4668.7	7.9
BVH - Back-Very High(80-90)	205.12	0.3
Total Back Light	22782	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	22782	0	22782
Street Side	36565	0	36565

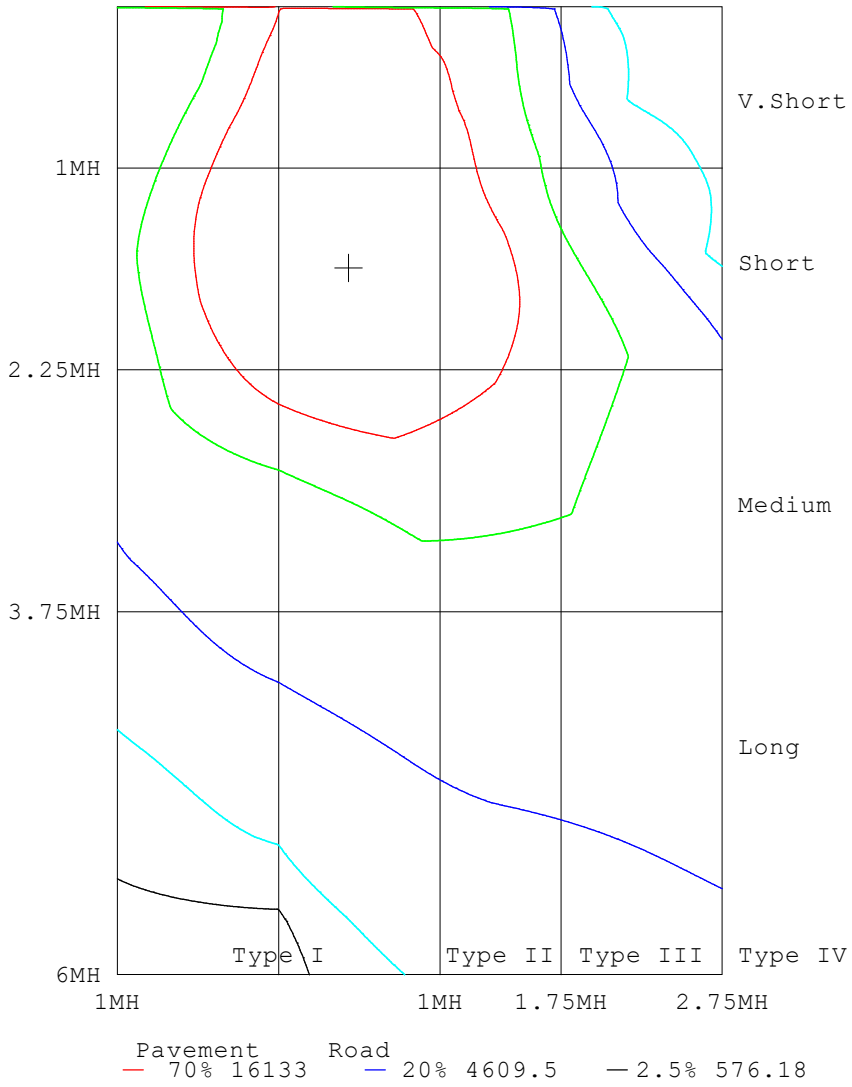
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.67V I:3.2431A P:390.80W PF:0.9987 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:59905.6x1 lm		
NAME: SB10-500W	TYPE: 400W	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:120.67V I:3.2431A P:390.80W PF:0.9987 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:59905.6x1 lm		
NAME: SB10-500W	TYPE: 400W	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	1604	1601	1601	1599	1600	1599	1598	1595	1596	1595	1594	1592	1604	1601	1601	1599	1600	1599	1598
5	1633	1645	1655	1658	1662	1660	1655	1646	1635	1623	1610	1594	1588	1568	1549	1530	1519	1512	1513
10	1673	1696	1711	1715	1711	1704	1692	1678	1664	1649	1629	1605	1585	1545	1499	1455	1421	1400	1399
15	1720	1755	1768	1764	1751	1732	1713	1694	1681	1669	1652	1624	1596	1536	1460	1379	1311	1267	1258
20	1772	1816	1826	1809	1782	1750	1721	1701	1691	1685	1674	1653	1620	1539	1425	1300	1198	1132	1119
25	1829	1881	1884	1855	1813	1768	1729	1707	1699	1698	1698	1681	1646	1542	1385	1219	1094	1021	1006
30	1889	1948	1941	1902	1848	1775	1717	1700	1710	1711	1713	1708	1668	1535	1337	1144	1009	926	908
35	1960	2024	1993	1934	1850	1741	1664	1656	1691	1721	1730	1729	1680	1519	1292	1084	937	842	820
40	2029	2087	2031	1938	1812	1668	1609	1576	1638	1712	1739	1748	1695	1511	1261	1026	858	763	737
45	2082	2142	2062	1916	1727	1610	1563	1529	1547	1677	1743	1766	1719	1519	1235	956	770	686	665
50	2139	2212	2083	1860	1647	1539	1454	1457	1484	1601	1739	1800	1759	1529	1207	867	677	609	576
55	2178	2278	2078	1765	1553	1328	1141	1250	1407	1513	1720	1856	1819	1537	1174	742	559	412	340
60	2130	2303	2032	1676	1312	718	410	609	1167	1441	1670	1931	1889	1527	1107	562	351	231	207
65	1900	2188	1895	1565	793	156	95.0	128	614	1331	1584	2008	1945	1472	950	351	205	104	102
70	1289	1638	1580	1336	213	66.0	66.7	67.8	159	1024	1487	1939	1853	1330	601	178	84.1	80.7	89.4
75	702	1042	1111	739	57.1	51.5	50.0	53.1	54.1	511	1417	1360	1186	902	154	83.0	58.7	64.5	80.5
80	49.9	274	617	89.0	33.7	34.0	32.4	35.5	35.6	75.7	923	764	552	215	68.6	50.4	38.9	47.2	59.0
85	14.0	46.3	51.3	17.6	17.2	16.5	16.3	18.2	20.3	22.7	131	132	54.7	98.8	19.0	26.9	21.8	39.5	40.2
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
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γ Range: 0 - 180DEG
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Humidity:65.0%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: SB10-500W	TYPE: 400W	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	1595	1596	1595	1594	1592														
5	1520	1535	1555	1579	1601														
10	1416	1454	1503	1562	1616														
15	1285	1351	1441	1545	1637														
20	1151	1237	1363	1516	1657														
25	1042	1132	1280	1482	1676														
30	949	1045	1206	1449	1702														
35	860	962	1144	1431	1740														
40	771	866	1080	1429	1791														
45	688	764	994	1418	1819														
50	594	653	865	1396	1833														
55	373	493	674	1334	1807														
60	218	280	457	1170	1693														
65	97.2	150	251	801	1448														
70	79.1	71.9	114	281	1027														
75	64.0	52.7	62.7	67.5	356														
80	52.6	35.9	35.8	33.7	52.5														
85	41.5	18.5	16.6	14.2	18.2														
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: