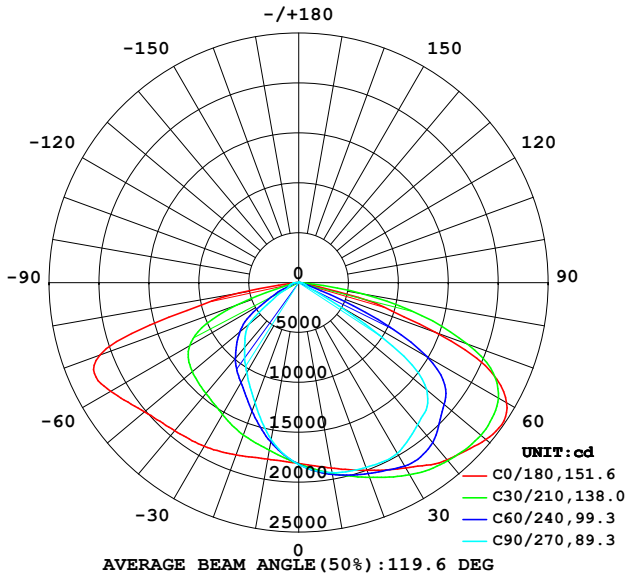
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.13V I:3.6692A P:440.34W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:68576.7x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

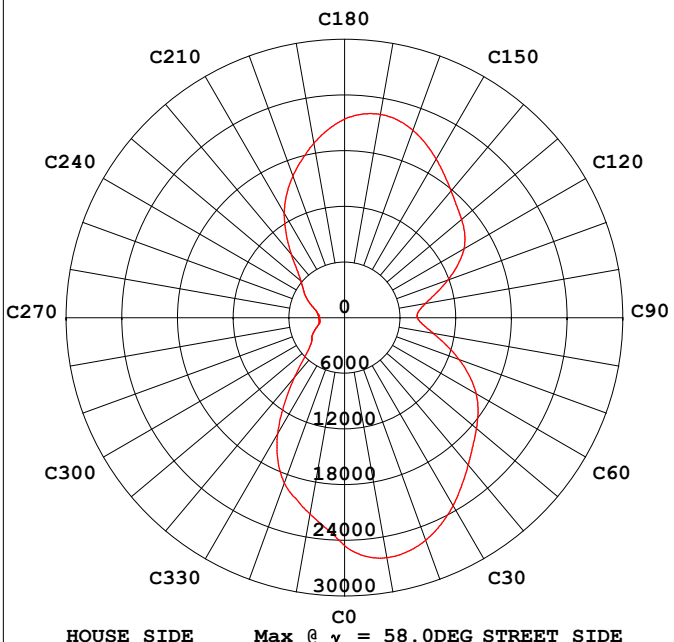
DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.27 lm/W			
MODEL	SB10-500W	Imax(cd)	26111	η street_up(%)	0.0
NOMINAL POWER(W)	450	LOR(%)	99.1	η street_down(%)	61.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	67933	η house_up(%)	0.0
NOMINAL FLUX(lm)	68576.7	MAXIMUM @(C,γ)	15,58.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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



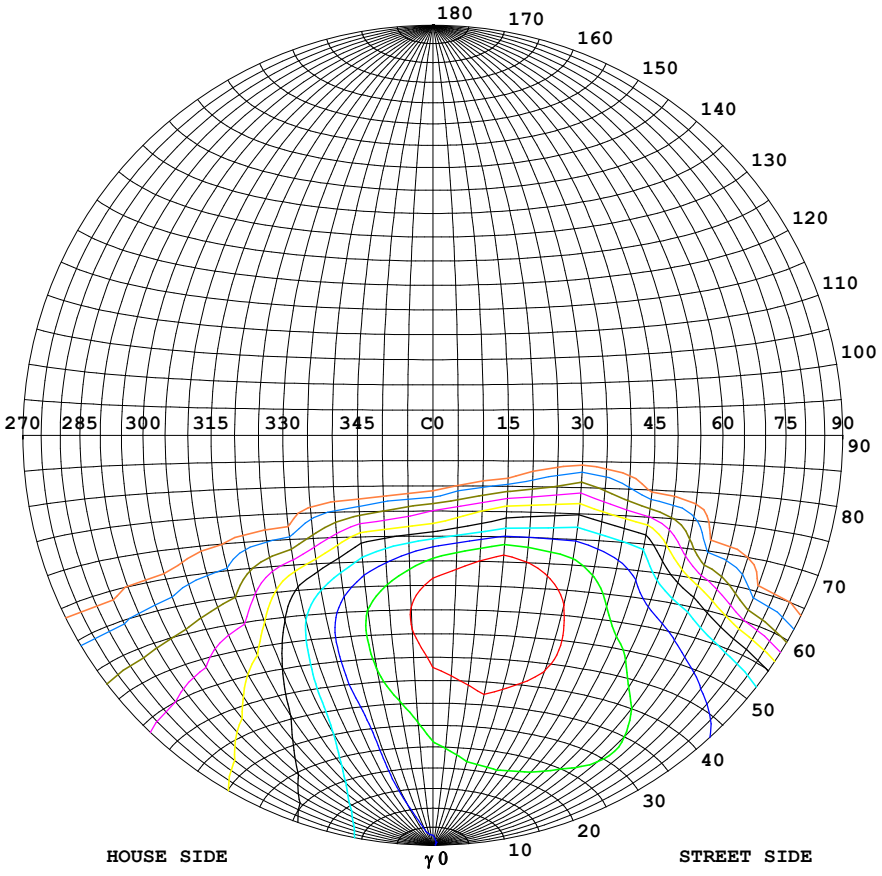
HOUSE SIDE Max @ γ = 58.0DEG STREET SIDE

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:120.13V I:3.6692A P:440.34W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:68576.7x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



Classification:

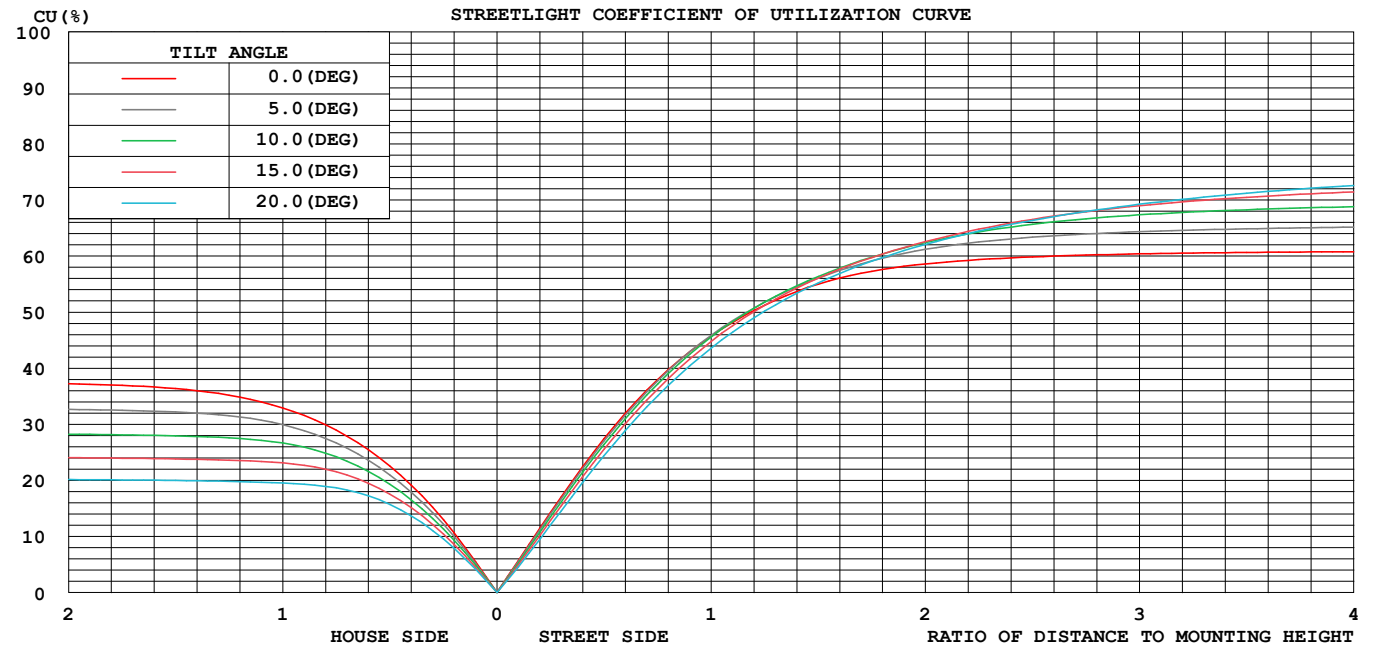
IES:Type III - Short
CIE:Narrow - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:144.1cd/klm
Max.At90:0cd/klm
Max.80-90:144.1cd/klm
NRB 5101:Semi limited[21.6%]

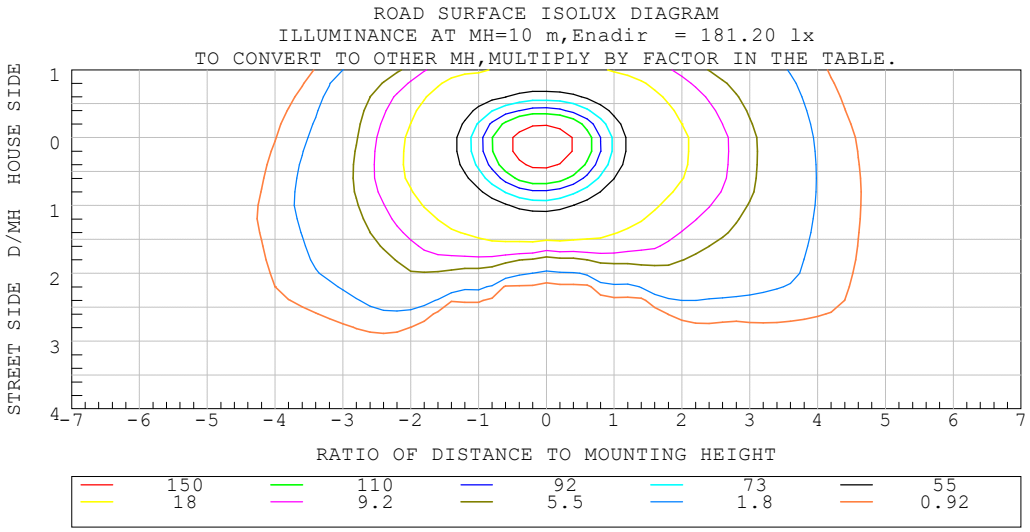
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	26111
90%	23500
80%	20889
70%	18278
60%	15667
50%	13055
40%	10444
30%	7833
20%	5222
10%	2611
5%	1306

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 = 170.9 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:120.13V I:3.6692A P:440.34W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:68576.7x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

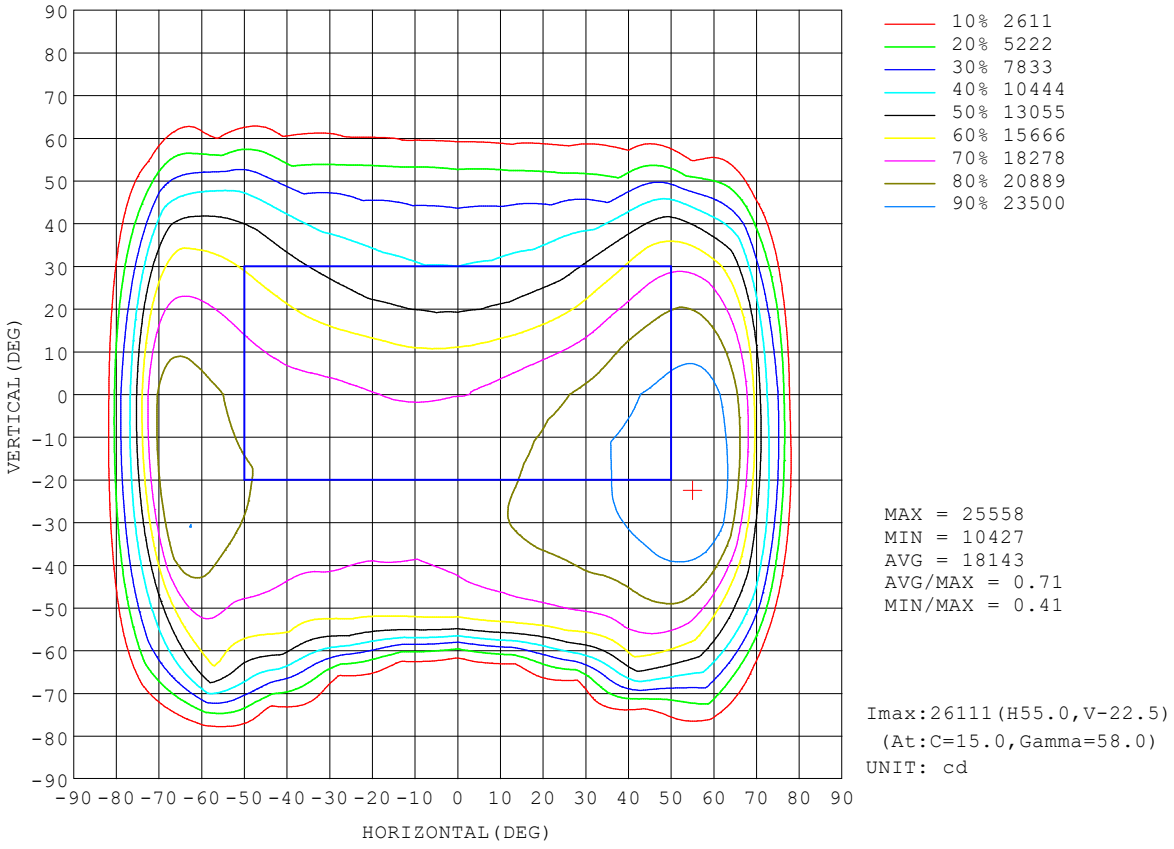
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1886	1949	1933	1888	1795	1657	1596	1715	0- 10	1729	1729	2.55,2.52
20	2001	2063	1970	1933	1836	1484	1282	1556	10- 20	5057	6787	9.99,9.9
30	2145	2182	1976	1969	1893	1310	1043	1382	20- 30	8108	14894	21.9,21.7
40	2316	2228	1856	1975	1935	1181	845.3	1241	30- 40	10807	25701	37.8,37.5
50	2447	2138	1674	1857	2016	994.9	653.1	987.5	40- 50	12816	38517	56.7,56.2
60	2406	1914	465.8	1674	2177	633.9	238.7	516.6	50- 60	13249	51766	76.2,75.5
70	1459	1483	76.74	1175	2117	196.4	101.6	127.8	60- 70	10371	62137	91.5,90.6
80	52.33	101.9	36.70	92.84	607.5	56.64	67.15	41.38	70- 80	5120	67257	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	675.8	67933	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	67933	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	67933	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	67933	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	67933	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	67933	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	67933	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	67933	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	67933	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	67933	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

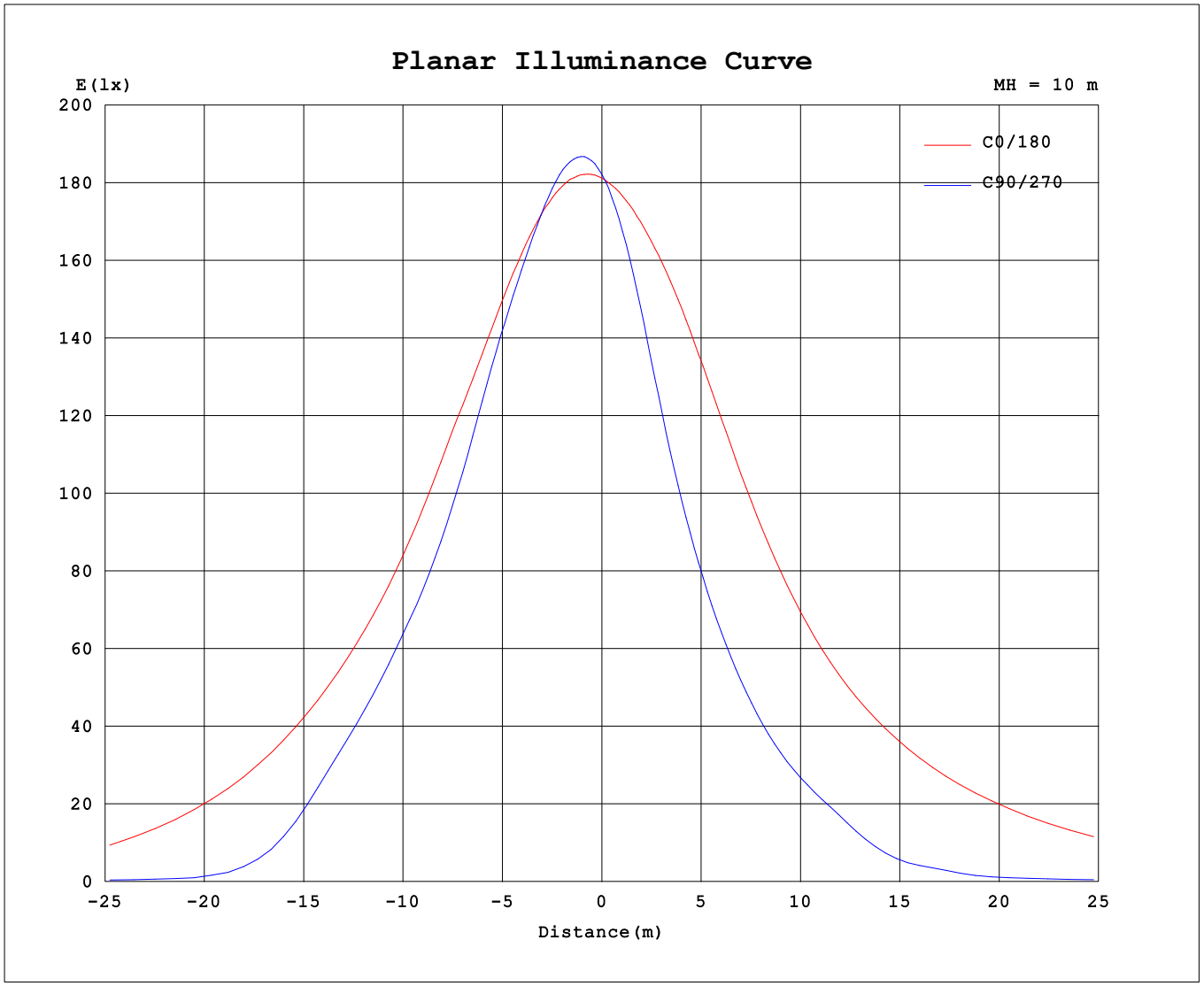
Test:U:120.13V I:3.6692A P:440.34W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:68576.7x1 lm		
NAME: SB10-500W	TYPE: 450W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



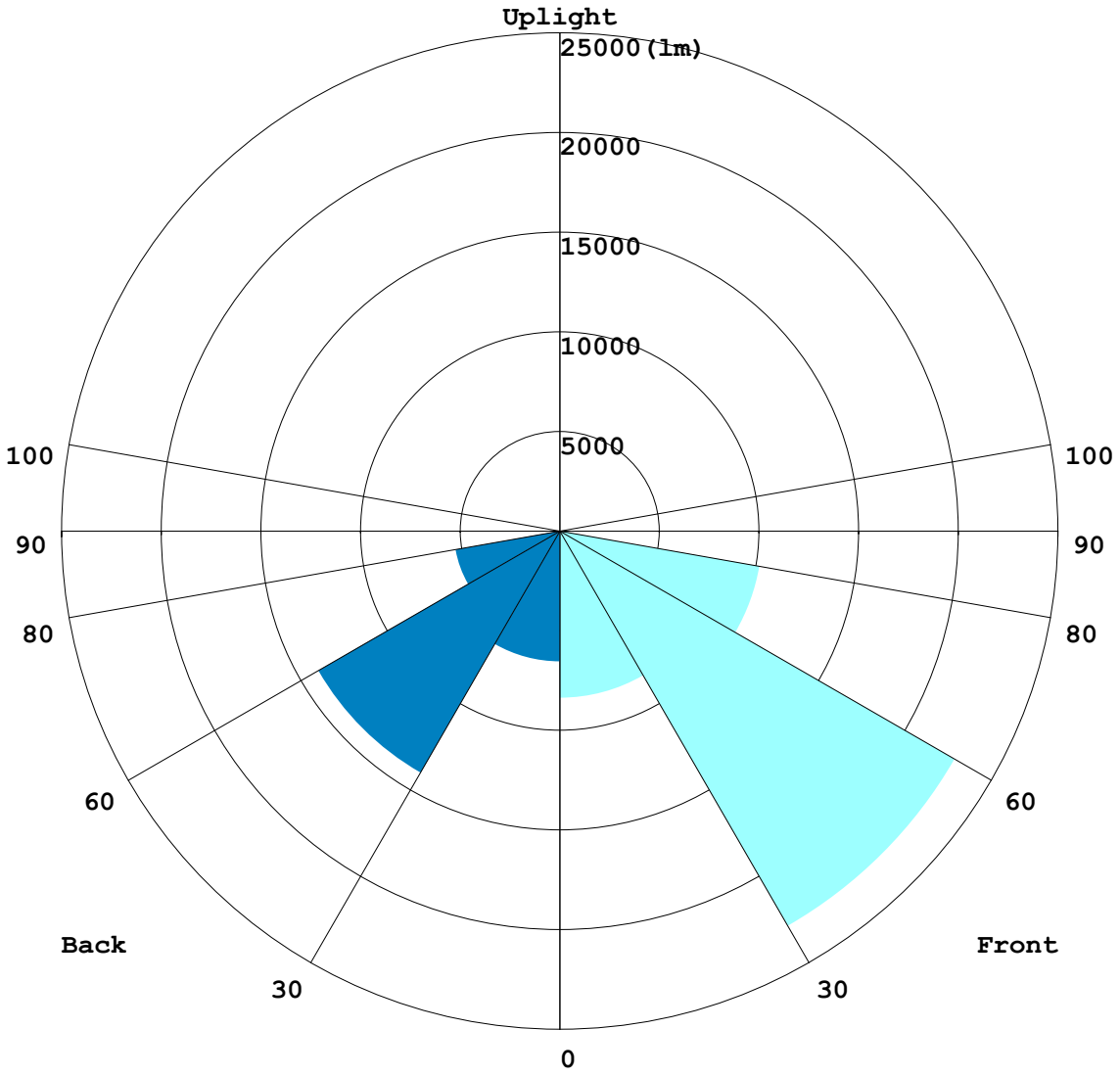
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.13V I:3.6692A P:440.34W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:68576.7x1 lm		
NAME: SB10-500W	TYPE: 450W	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:120.13V I:3.6692A P:440.34W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:68576.7x1 lm		
NAME: SB10-500W	TYPE: 450W	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)	8361	12.3
FM - Front-Medium(30-60)	22883	33.7
FH - Front-High(60-80)	10178	15.0
FVH - Front-Very High(80-90)	444.75	0.7
Total Forward Light	41867	61.6
BL - Back-Low(0-30)	6533.1	9.6
BM - Back-Medium(30-60)	13989	20.6
BH - Back-High(60-80)	5312.6	7.8
BVH - Back-Very High(80-90)	231.05	0.3
Total Back Light	26066	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	26066	0	26066
Street Side	41867	0	41867

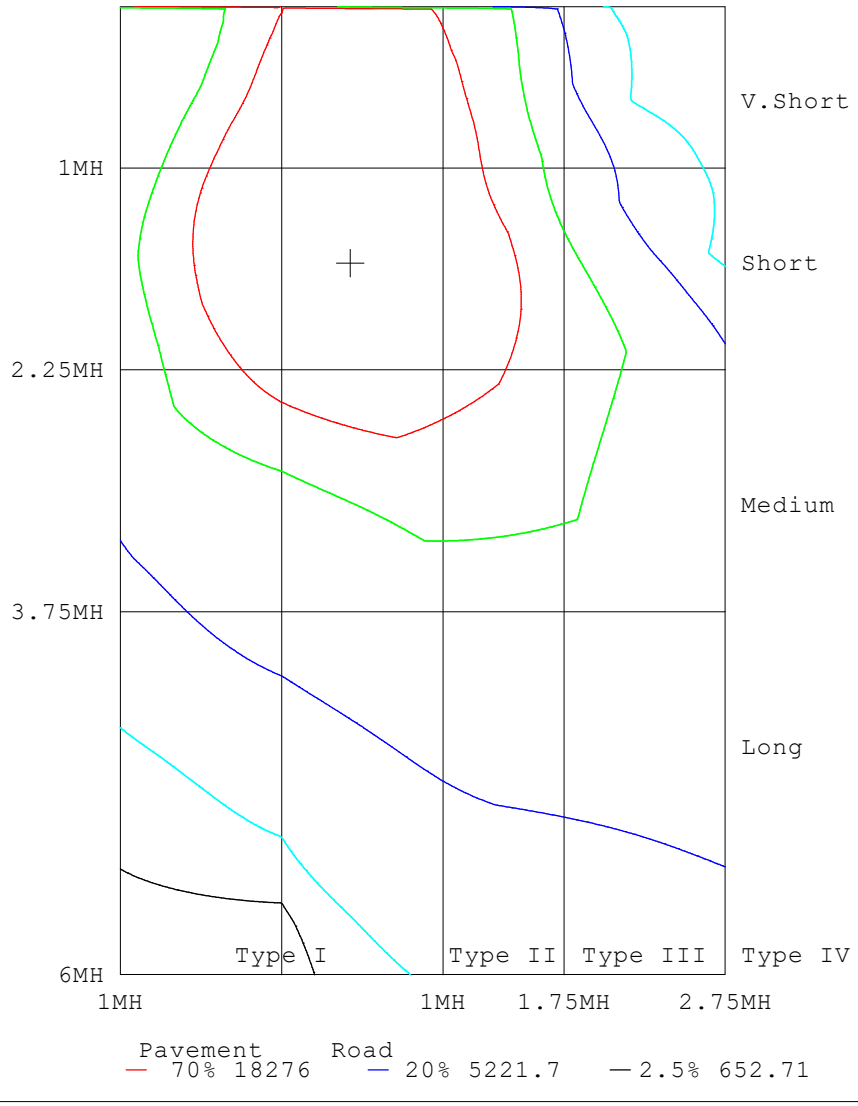
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.13V I:3.6692A P:440.34W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:68576.7x1 lm		
NAME: SB10-500W	TYPE: 450W	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:120.13V I:3.6692A P:440.34W PF:0.9991 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:68576.7x1 lm		
NAME: SB10-500W	TYPE: 450W	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	1812	1816	1815	1818	1820	1822	1821	1820	1823	1822	1823	1823	1812	1816	1815	1818	1820	1822	1821
5	1843	1862	1877	1887	1894	1894	1889	1880	1870	1857	1843	1827	1797	1777	1758	1741	1729	1724	1726
10	1886	1921	1941	1949	1951	1944	1933	1917	1903	1888	1868	1841	1795	1755	1705	1657	1621	1598	1596
15	1939	1986	2006	2007	1997	1980	1957	1938	1924	1913	1896	1866	1810	1744	1663	1573	1498	1447	1438
20	2001	2059	2077	2063	2035	2003	1970	1949	1938	1933	1925	1899	1836	1748	1625	1484	1371	1299	1282
25	2071	2139	2148	2120	2076	2027	1983	1957	1950	1950	1951	1931	1866	1751	1579	1393	1254	1172	1154
30	2145	2222	2221	2182	2122	2040	1976	1956	1963	1969	1972	1963	1893	1748	1528	1310	1158	1065	1043
35	2234	2314	2285	2221	2131	2008	1919	1909	1950	1979	1993	1991	1913	1737	1481	1247	1079	973	945
40	2316	2383	2327	2228	2090	1925	1856	1820	1891	1975	2006	2018	1935	1731	1449	1181	989	878	845
45	2377	2448	2362	2205	1993	1856	1804	1765	1784	1940	2013	2042	1967	1744	1421	1101	883	786	759
50	2447	2521	2381	2138	1902	1773	1674	1681	1714	1857	2014	2085	2016	1760	1391	995	771	693	653
55	2482	2587	2366	2023	1786	1509	1288	1417	1621	1756	2000	2156	2089	1771	1348	842	632	474	394
60	2406	2607	2310	1914	1485	804	466	687	1329	1674	1950	2246	2177	1760	1260	634	399	268	239
65	2135	2465	2153	1769	879	176	111	148	693	1536	1855	2340	2242	1695	1073	392	234	124	122
70	1459	1849	1794	1483	238	76.2	76.7	77.9	184	1175	1747	2246	2117	1527	663	196	96.5	92.5	102
75	789	1180	1277	797	66.6	59.1	56.7	61.2	63.6	597	1641	1566	1349	1024	168	94.4	67.8	73.4	90.8
80	52.3	313	654	102	39.4	38.4	36.7	40.3	41.4	92.8	988	877	607	238	77.2	56.6	44.9	53.7	67.2
85	17.1	52.1	60.0	21.0	20.5	18.9	18.3	20.6	23.5	27.1	149	143	63.7	106	22.1	30.7	25.0	44.2	51.0
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

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SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

Table--2 UNIT: X10cd

C(DEG) / γ (DEG)	285	300	315	330	345														
0	1820	1823	1822	1823	1823														
5	1733	1752	1775	1803	1830														
10	1616	1659	1715	1783	1845														
15	1468	1543	1645	1762	1869														
20	1319	1415	1556	1731	1893														
25	1194	1296	1464	1695	1919														
30	1090	1197	1382	1660	1952														
35	988	1104	1313	1644	2005														
40	883	995	1241	1647	2067														
45	783	872	1142	1638	2105														
50	674	741	987	1618	2127														
55	429	559	766	1542	2093														
60	251	321	517	1345	1947														
65	115	168	279	903	1638														
70	90.5	83.0	128	306	1157														
75	72.9	61.0	72.6	78.5	399														
80	60.0	41.5	41.4	40.7	58.3														
85	47.5	21.4	19.3	16.8	20.7														
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: