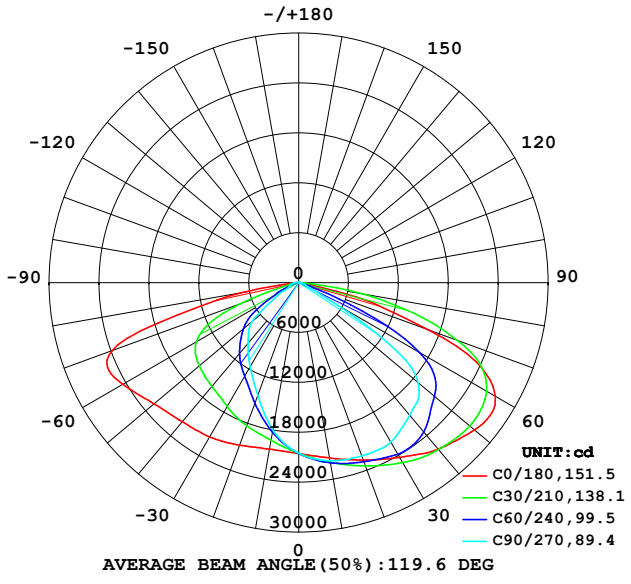
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.38V I:3.8932A P:468.29W PF:0.9992 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:77114.3x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

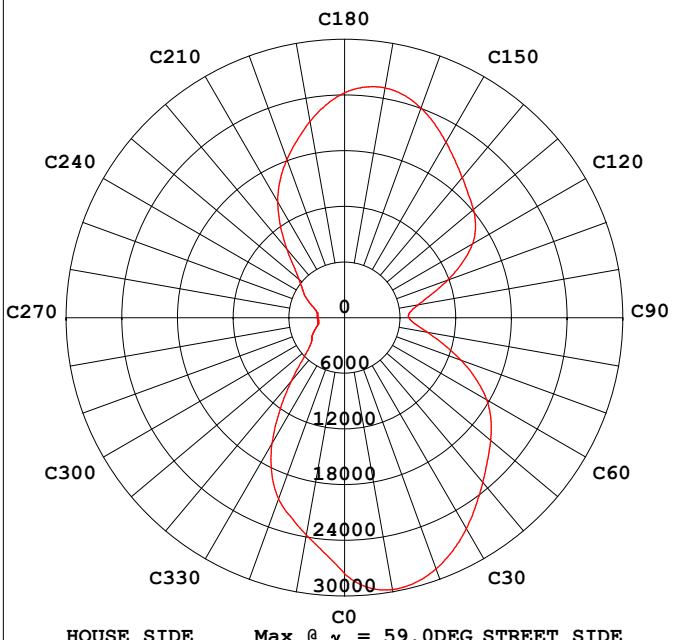
DATA OF LAMP		PHOTOMETRIC DATA Eff: 163.13 lm/W			
MODEL	SB10-500W	Imax(cd)	29554	η street_up(%)	0.0
NOMINAL POWER(W)	500	LOR(%)	99.1	η street_down(%)	61.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	76393	η house_up(%)	0.0
NOMINAL FLUX(lm)	77114.3	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η 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



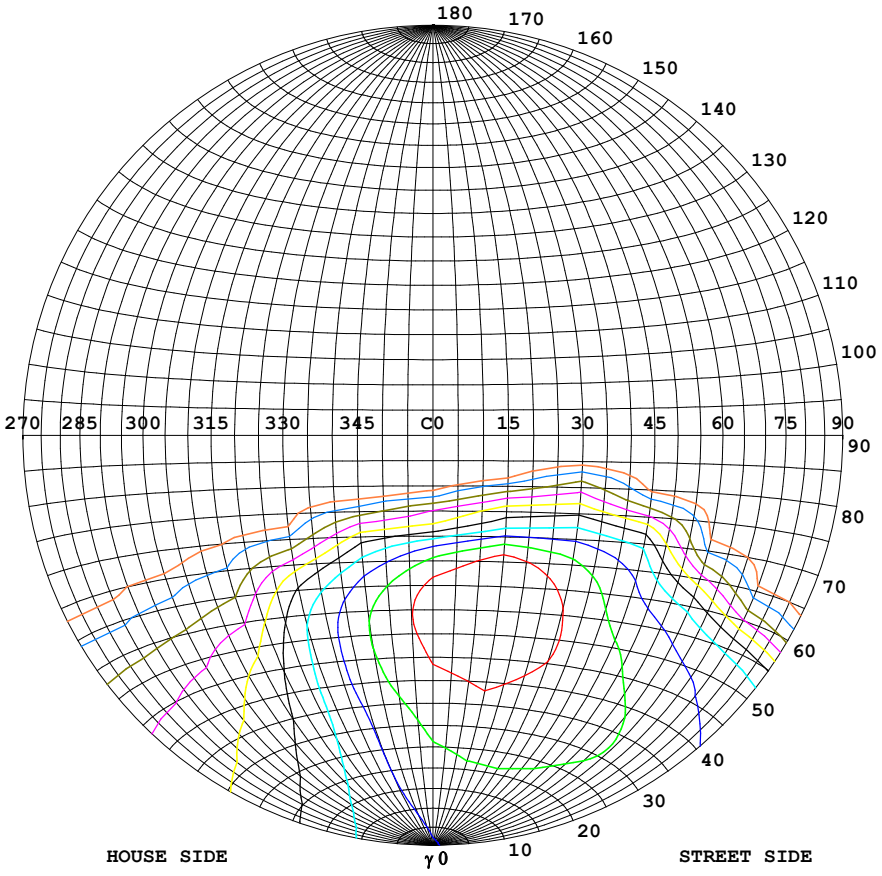
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.38V I:3.8932A P:468.29W PF:0.9992 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:77114.3x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



Classification:

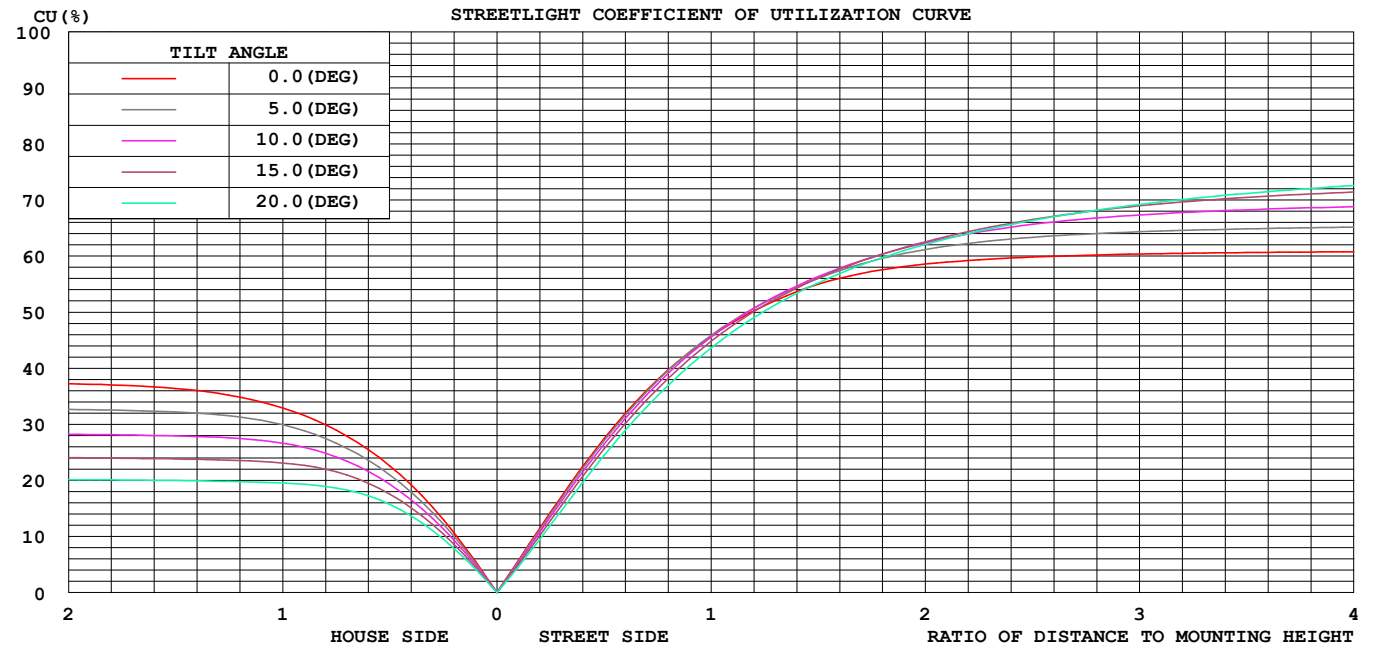
IES:Type III - Short
CIE:Narrow - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:148.3cd/klm
Max.At90:0cd/klm
Max.80-90:148.3cd/klm
NRB 5101:Semi limited[21.8%]

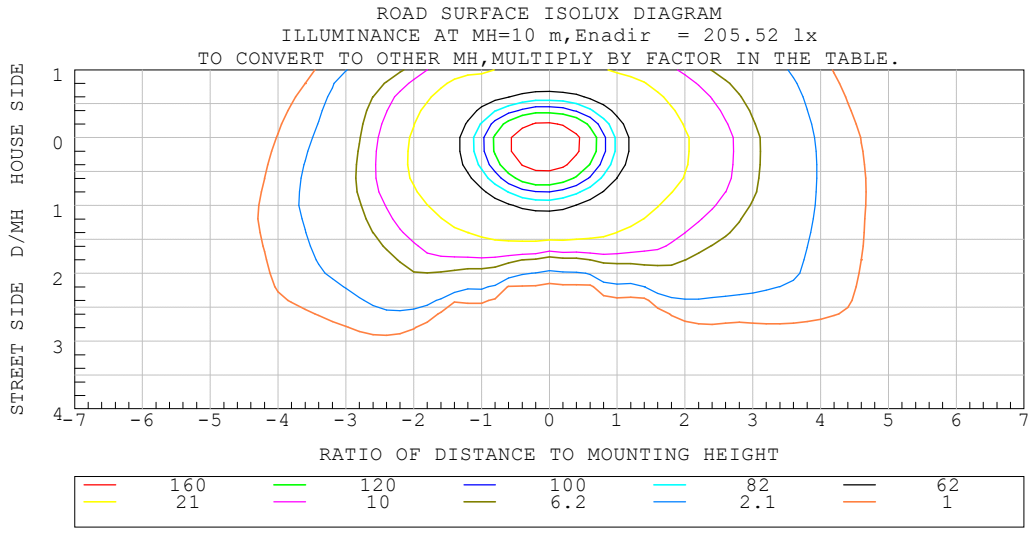
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	29554
90%	26598
80%	23643
70%	20688
60%	17732
50%	14777
40%	11821
30%	8866
20%	5911
10%	2955
5%	1478

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 = 192.2 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
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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:

ZONAL FLUX DIAGRAM

Test:U:120.38V I:3.8932A P:468.29W PF:0.9992 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:77114.3x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

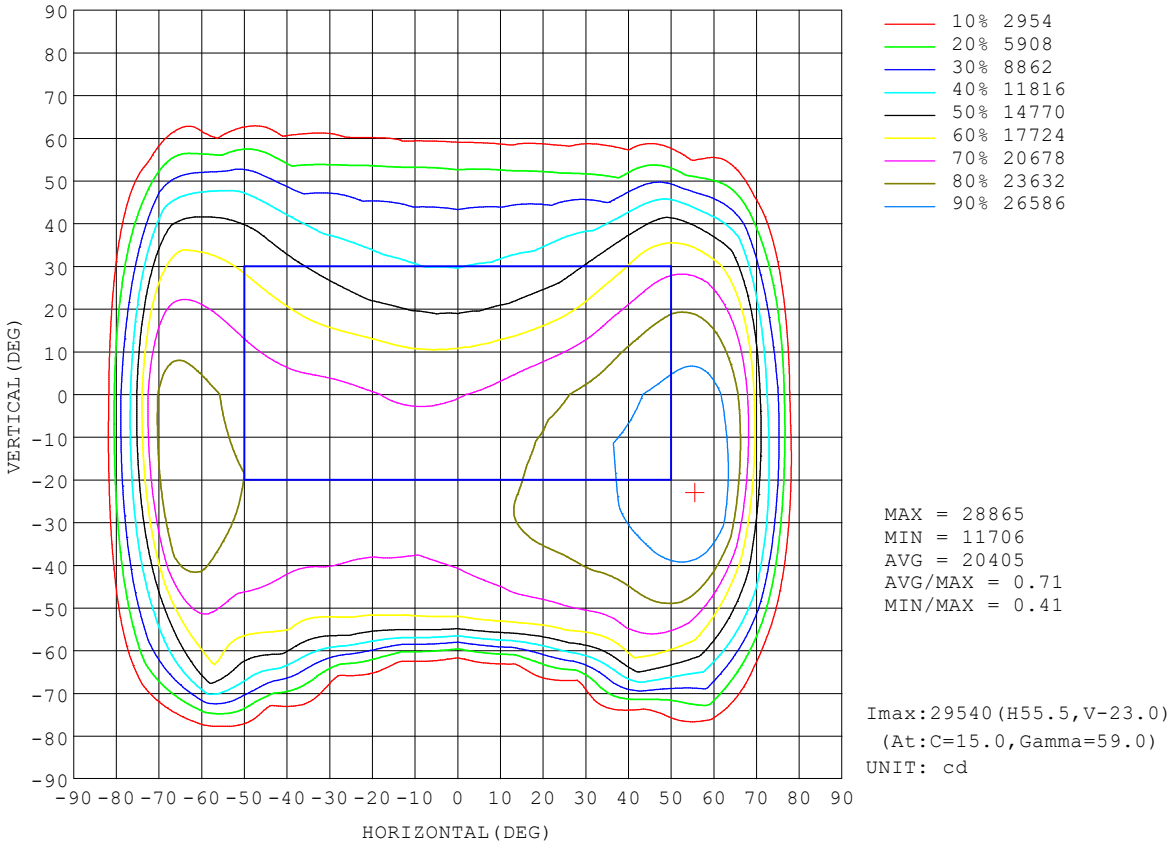
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2140	2201	2175	2120	2033	1869	1798	1930	0- 10	1949	1949	2.55,2.53
20	2269	2325	2216	2169	2079	1672	1441	1750	10- 20	5696	7645	10,9.91
30	2425	2452	2215	2205	2141	1473	1171	1551	20- 30	9120	16765	21.9,21.7
40	2613	2501	2078	2209	2183	1324	949.6	1392	30- 40	12132	28897	37.8,37.5
50	2757	2401	1876	2073	2269	1117	737.6	1111	40- 50	14379	43276	56.6,56.1
60	2729	2156	525.6	1868	2444	716.8	266.7	584.9	50- 60	14886	58162	76.1,75.4
70	1656	1695	86.02	1319	2386	222.0	114.7	145.0	60- 70	11684	69846	91.4,90.6
80	61.40	115.6	41.43	100.5	694.9	64.13	75.75	46.33	70- 80	5780	75625	99,98.1
90	0	0	0	0	0	0	0	0	80- 90	767.8	76393	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	76393	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	76393	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	76393	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	76393	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	76393	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	76393	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	76393	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	76393	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	76393	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

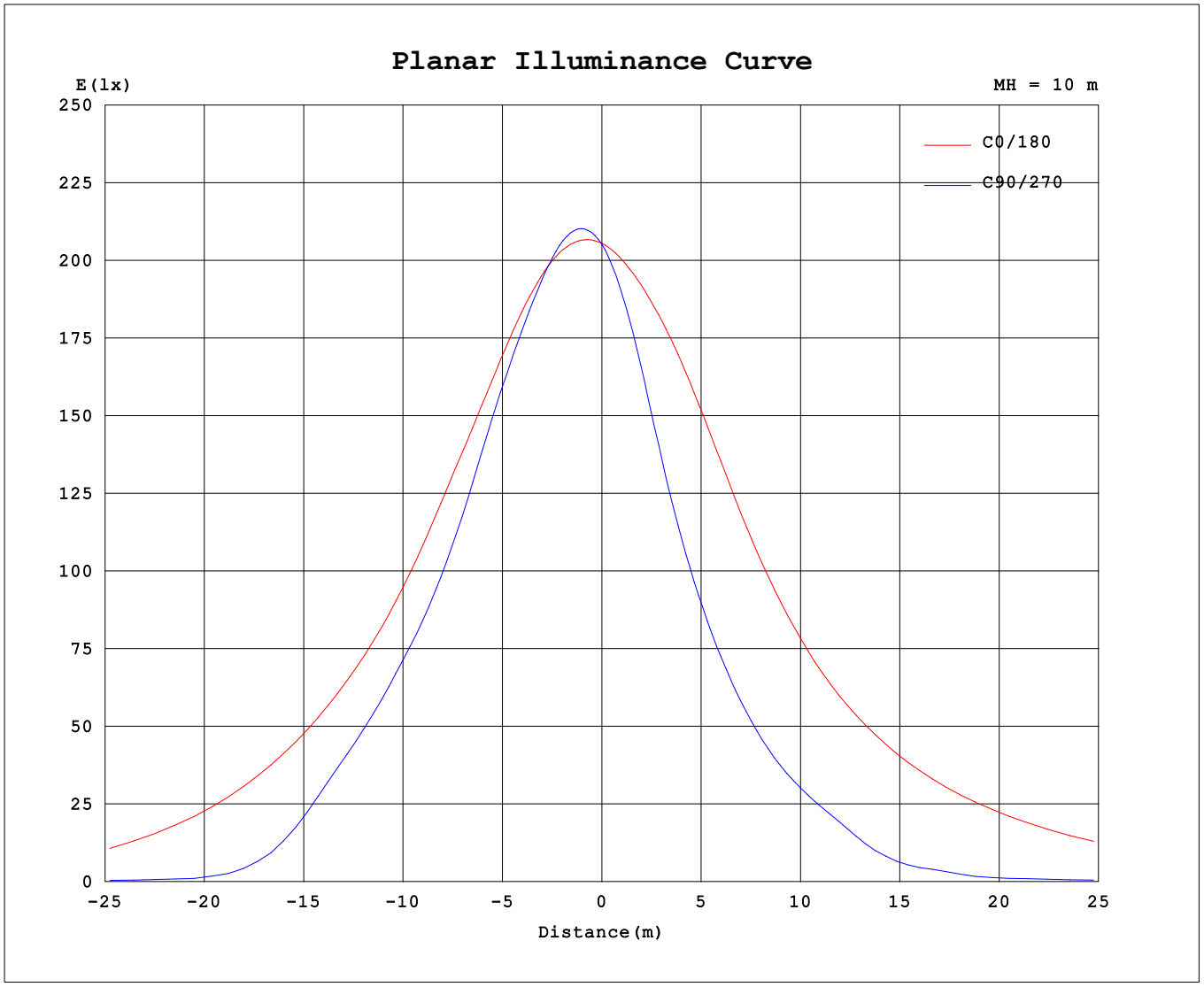
Test:U:120.38V I:3.8932A P:468.29W PF:0.9992 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:77114.3x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



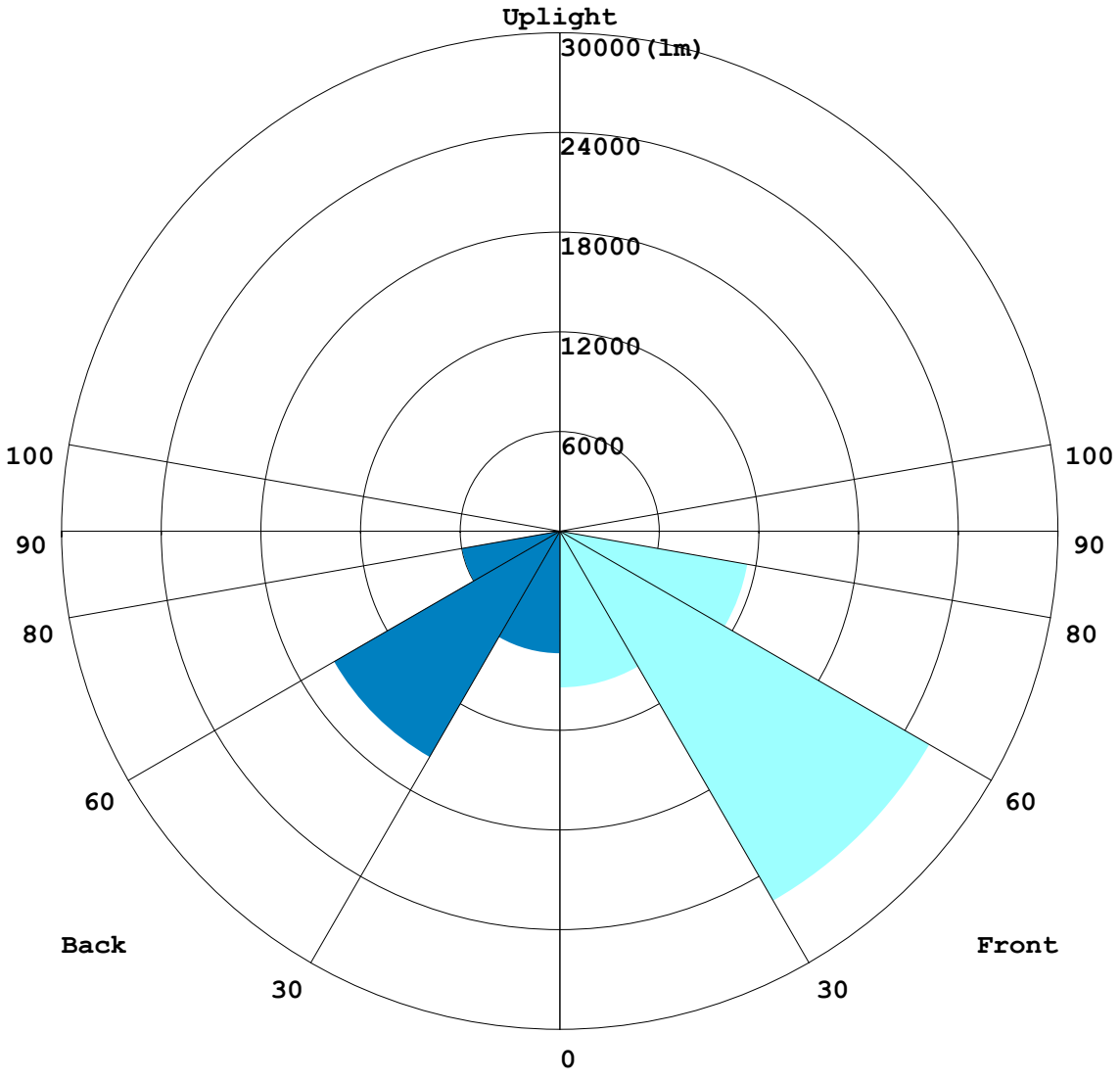
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.38V I:3.8932A P:468.29W PF:0.9992 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:77114.3x1 lm		
NAME: SB10-500W	TYPE: 500W	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:120.38V I:3.8932A P:468.29W PF:0.9992 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:77114.3x1 lm		
NAME: SB10-500W	TYPE: 500W	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)	9409.1	12.3
FM - Front-Medium(30-60)	25690	33.6
FH - Front-High(60-80)	11474	15.0
FVH - Front-Very High(80-90)	506.71	0.7
Total Forward Light	47080	61.6
BL - Back-Low(0-30)	7355.6	9.6
BM - Back-Medium(30-60)	15707	20.6
BH - Back-High(60-80)	5989.7	7.8
BVH - Back-Very High(80-90)	261.04	0.3
Total Back Light	29314	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	29314	0	29314
Street Side	47080	0	47080

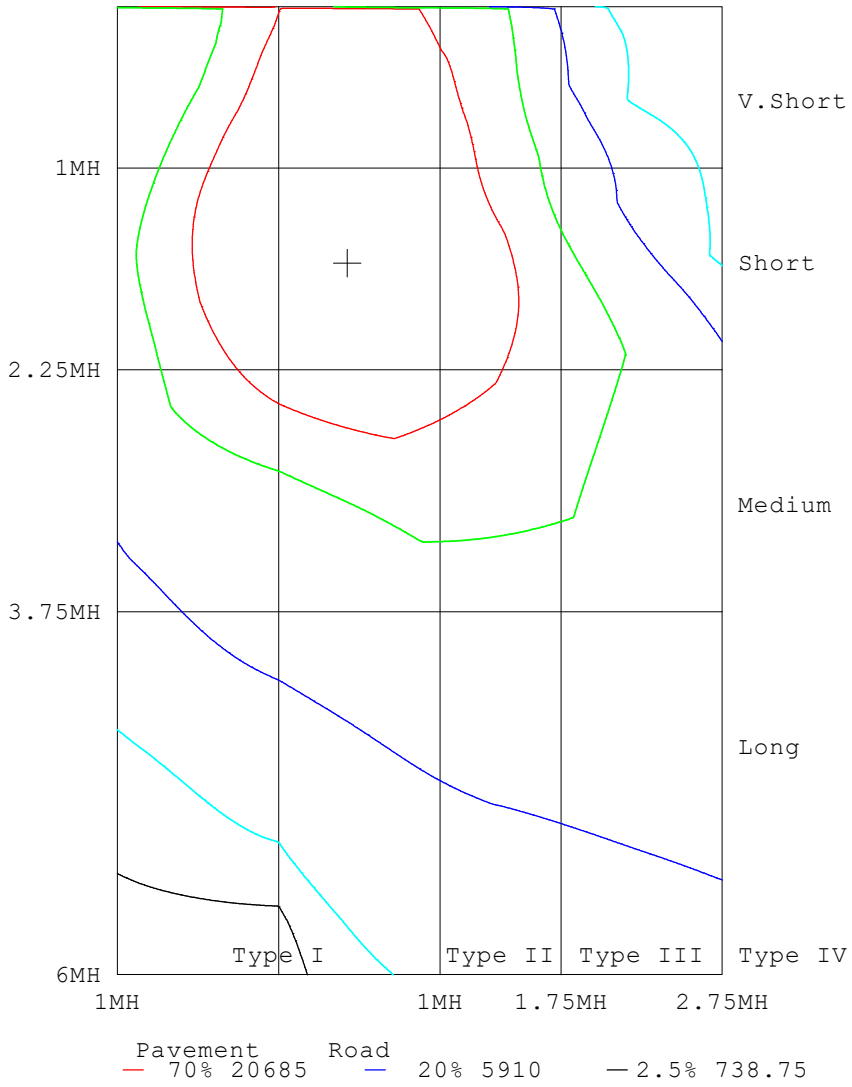
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.38V I:3.8932A P:468.29W PF:0.9992 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:77114.3x1 lm		
NAME: SB10-500W	TYPE: 500W	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:120.38V I:3.8932A P:468.29W PF:0.9992 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:77114.3x1 lm		
NAME: SB10-500W	TYPE: 500W	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	2055	2054	2053	2052	2054	2053	2053	2049	2049	2048	2049	2047	2055	2054	2053	2052	2054	2053	2053
5	2090	2109	2123	2129	2134	2132	2126	2114	2102	2087	2070	2050	2035	2011	1987	1964	1951	1941	1943
10	2140	2174	2195	2201	2200	2190	2175	2157	2140	2120	2096	2065	2033	1983	1925	1869	1827	1799	1798
15	2201	2249	2269	2265	2250	2227	2202	2179	2163	2147	2127	2092	2049	1972	1875	1772	1686	1629	1618
20	2269	2329	2344	2325	2292	2252	2216	2189	2176	2169	2157	2129	2079	1976	1832	1672	1543	1458	1441
25	2344	2416	2423	2387	2334	2277	2227	2198	2189	2188	2187	2165	2113	1979	1780	1569	1409	1315	1296
30	2425	2506	2500	2452	2382	2289	2215	2193	2203	2205	2209	2201	2141	1972	1721	1473	1301	1195	1171
35	2521	2607	2570	2494	2389	2250	2149	2138	2183	2219	2231	2230	2160	1956	1665	1399	1210	1089	1059
40	2613	2686	2618	2501	2341	2155	2078	2037	2116	2209	2244	2257	2183	1948	1627	1324	1108	984	950
45	2682	2759	2657	2474	2232	2081	2020	1975	1997	2167	2251	2283	2216	1961	1595	1234	992	883	855
50	2757	2845	2682	2401	2130	1988	1876	1882	1917	2073	2249	2329	2269	1976	1560	1117	869	781	738
55	2803	2926	2671	2274	2003	1703	1457	1600	1816	1959	2229	2405	2349	1986	1514	951	715	530	441
60	2729	2951	2608	2156	1679	912	526	777	1497	1868	2170	2505	2444	1974	1421	717	450	299	267
65	2429	2800	2432	2003	1004	199	123	165	782	1718	2061	2606	2516	1900	1213	445	262	137	134
70	1656	2101	2030	1695	271	85.4	86.0	87.3	192	1319	1937	2507	2386	1714	755	222	108	104	115
75	900	1339	1438	926	74.3	66.3	63.9	68.5	70.5	663	1834	1746	1518	1152	191	106	75.8	82.8	103
80	61.4	391	767	116	43.9	43.5	41.4	45.4	46.1	101	1144	980	695	266	87.3	64.1	50.2	60.6	75.7
85	18.9	59.4	67.7	23.2	22.7	21.2	20.6	23.2	26.1	29.7	167	161	71.0	123	24.6	34.5	28.0	50.3	57.3
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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NAME: SB10-500W	TYPE: 500W	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	2049	2049	2048	2049	2047														
5	1950	1971	1997	2027	2056														
10	1818	1867	1930	2005	2075														
15	1651	1735	1850	1982	2102														
20	1482	1590	1750	1947	2128														
25	1342	1456	1644	1904	2155														
30	1223	1345	1551	1864	2189														
35	1108	1238	1473	1844	2243														
40	993	1116	1392	1844	2313														
45	882	982	1281	1832	2351														
50	761	836	1111	1807	2373														
55	481	632	864	1725	2337														
60	281	361	585	1510	2183														
65	127	191	319	1026	1852														
70	102	92.9	145	355	1312														
75	82.2	68.2	81.2	87.7	457														
80	67.5	46.4	46.3	44.2	66.3														
85	53.5	24.0	21.6	18.7	20.8														
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: