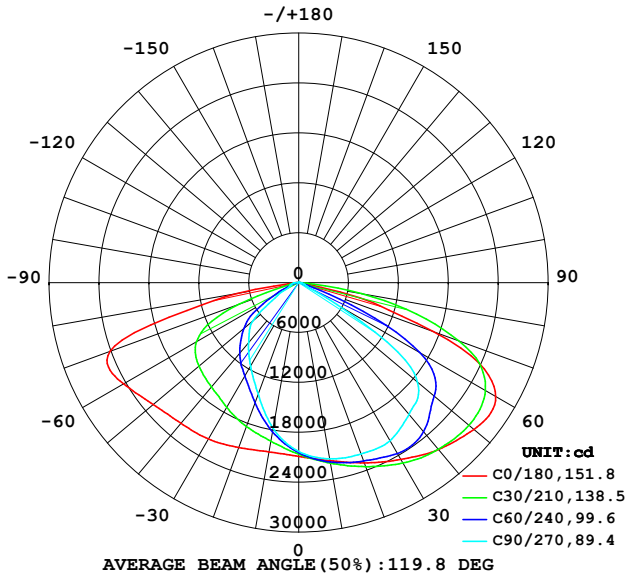
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.26V I:4.0850A P:490.90W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:76722x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

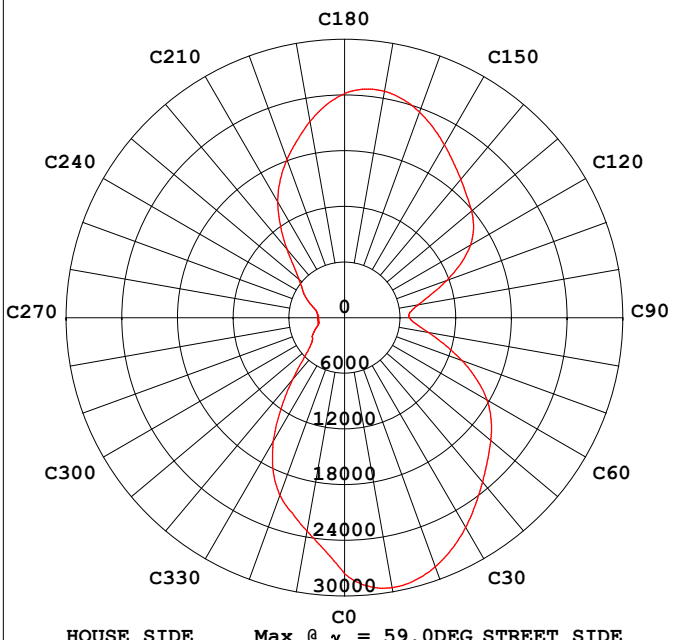
DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.82 lm/W			
MODEL	SB10-500W	Imax(cd)	29305	η street_up(%)	0.0
NOMINAL POWER(W)	500	LOR(%)	99.1	η street_down(%)	61.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	76001	η house_up(%)	0.0
NOMINAL FLUX(lm)	76722	MAXIMUM @(C,γ)	15,59.0	η house_down(%)	38.0
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	η down(%)	99.1	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):119.8 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



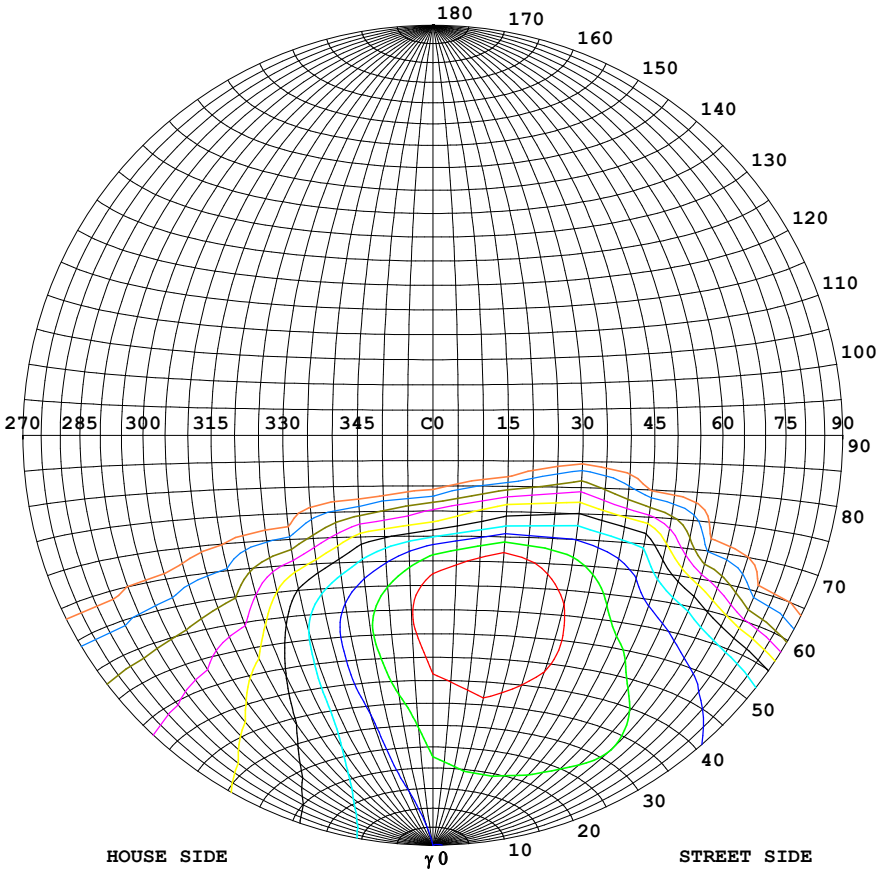
HOUSE SIDE Max @ γ = 59.0DEG STREET SIDE

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:120.26V I:4.0850A P:490.90W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:76722x1 lm		
NAME: SB10-500W	TYPE: 500W	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.At80:142.5cd/klm
Max.At90:0cd/klm
Max.80-90:142.5cd/klm
NRB 5101:Semi limited[21.3%]

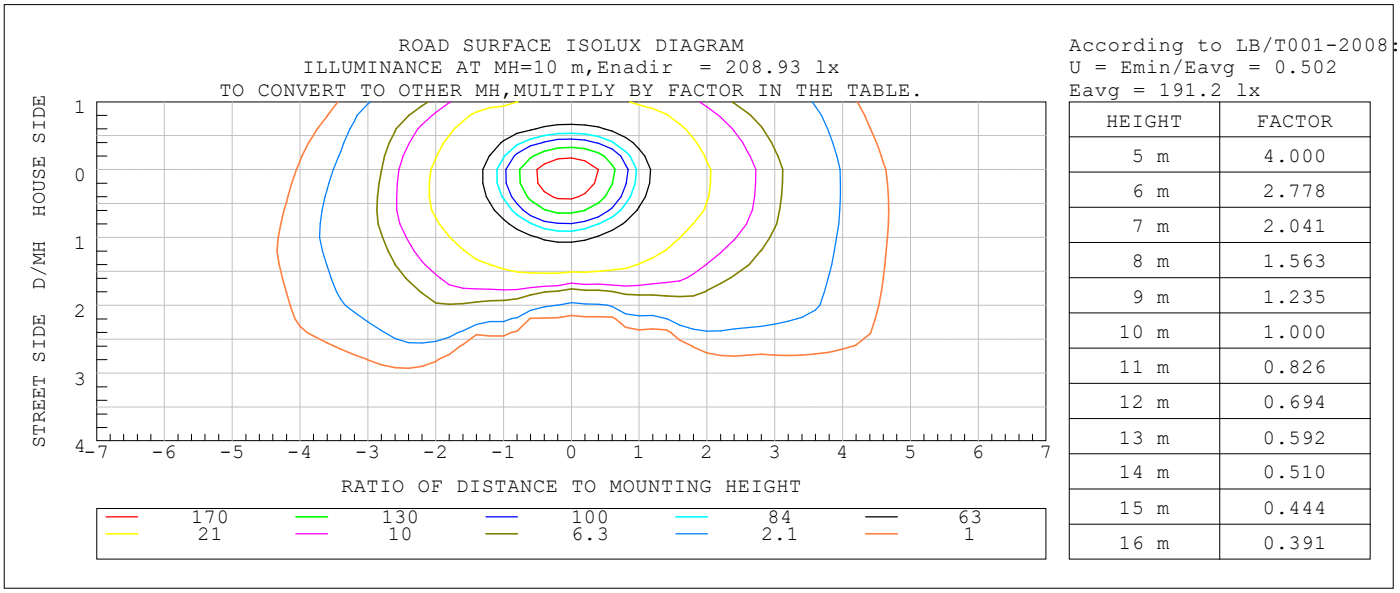
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	29305
90%	26374
80%	23444
70%	20513
60%	17583
50%	14652
40%	11722
30%	8791
20%	5861
10%	2930
5%	1465

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 = 191.2 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
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:120.26V I:4.0850A P:490.90W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:76722x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:

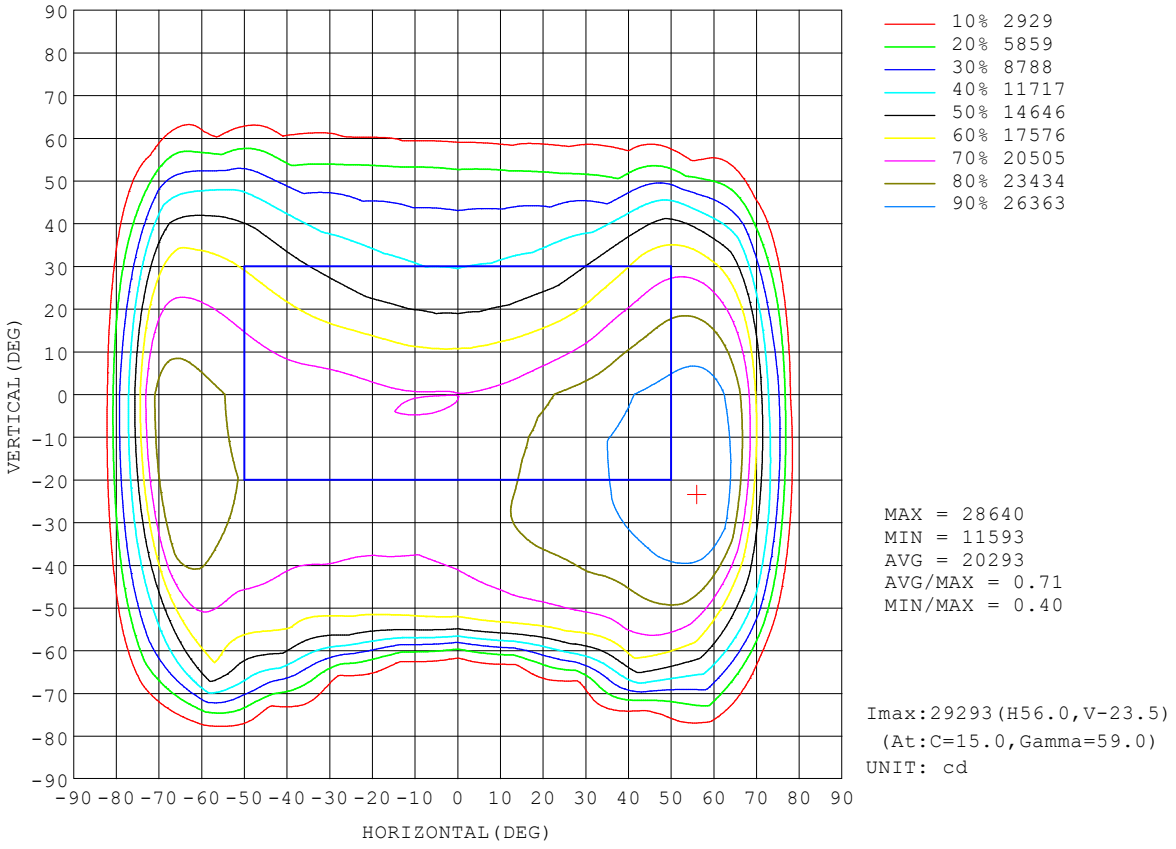
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2174	2200	2152	2082	2066	1871	1780	1893	0- 10	1935	1935	2.55,2.52
20	2305	2325	2193	2132	2111	1674	1427	1716	10- 20	5659	7595	9.99,9.9
30	2455	2450	2197	2168	2171	1475	1159	1523	20- 30	9063	16658	21.9,21.7
40	2620	2501	2065	2174	2207	1325	938.6	1366	30- 40	12055	28714	37.8,37.4
50	2748	2401	1868	2044	2281	1115	727.5	1087	40- 50	14273	42987	56.6,56
60	2735	2156	530.8	1844	2433	716.7	267.0	570.9	50- 60	14771	57758	76,75.3
70	1717	1687	85.24	1301	2411	222.3	112.6	141.3	60- 70	11626	69384	91.3,90.4
80	64.08	130.6	40.66	102.6	753.8	63.47	74.17	45.40	70- 80	5837	75220	99,98
90	0	0	0	0	0	0	0	0	80- 90	780.2	76001	100,99.1
100	0	0	0	0	0	0	0	0	90-100	0	76001	100,99.1
110	0	0	0	0	0	0	0	0	100-110	0	76001	100,99.1
120	0	0	0	0	0	0	0	0	110-120	0	76001	100,99.1
130	0	0	0	0	0	0	0	0	120-130	0	76001	100,99.1
140	0	0	0	0	0	0	0	0	130-140	0	76001	100,99.1
150	0	0	0	0	0	0	0	0	140-150	0	76001	100,99.1
160	0	0	0	0	0	0	0	0	150-160	0	76001	100,99.1
170	0	0	0	0	0	0	0	0	160-170	0	76001	100,99.1
180	0	0	0	0	0	0	0	0	170-180	0	76001	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

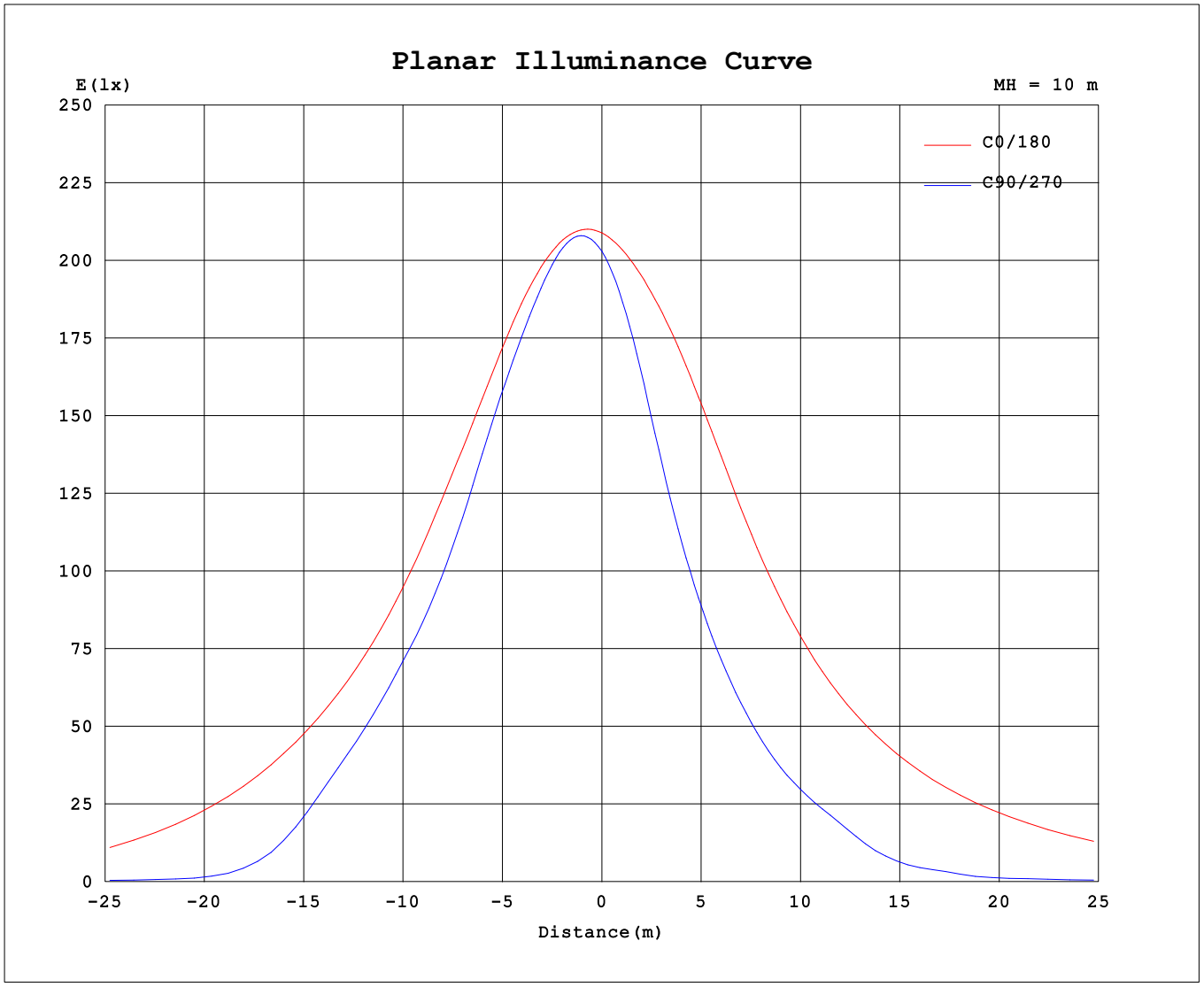
Test:U:120.26V I:4.0850A P:490.90W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:76722x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.31*0.42	Shielding Angle:



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



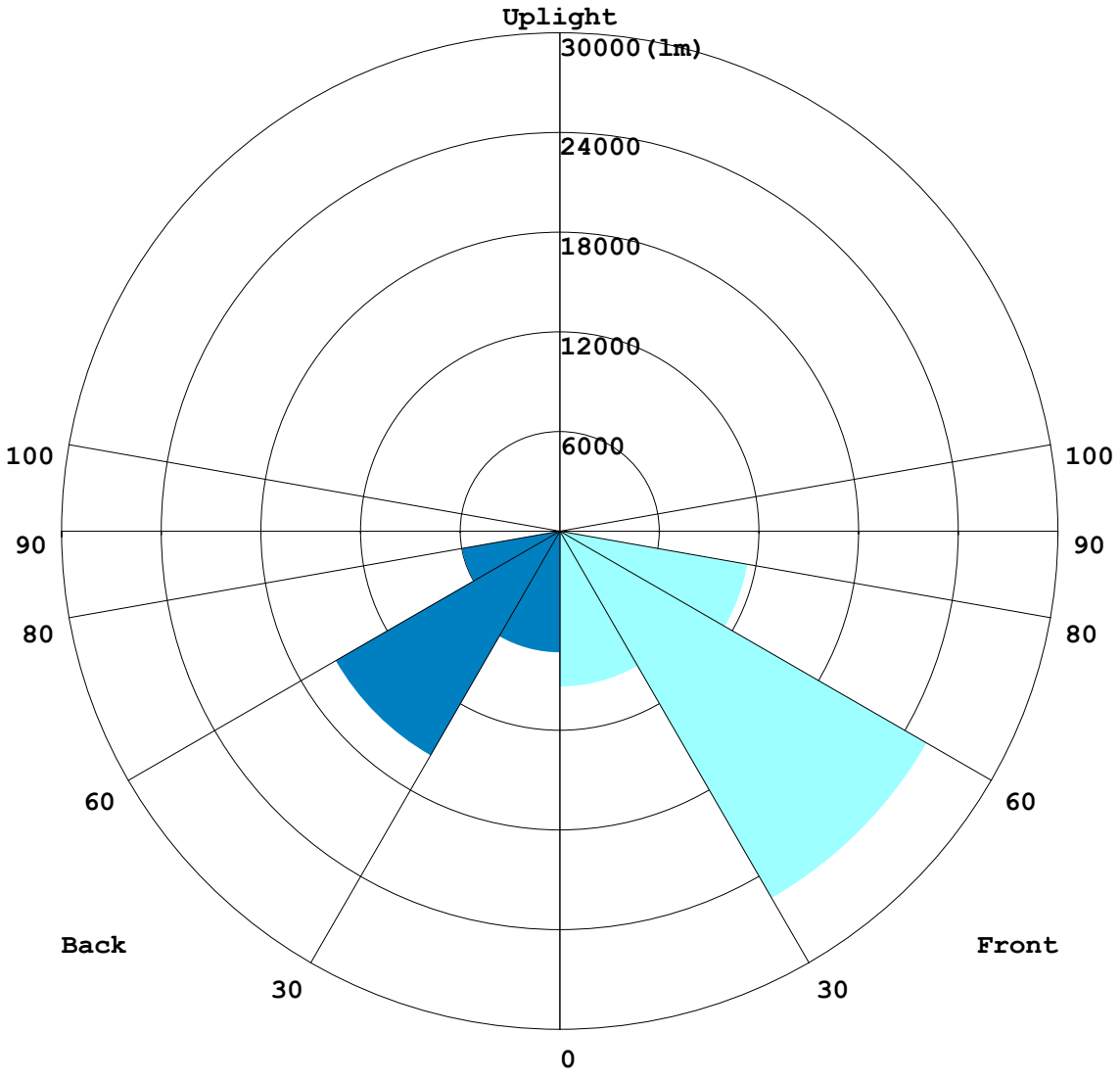
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.26V I:4.0850A P:490.90W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:76722x1 lm		
NAME: SB10-500W	TYPE: 500W	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:120.26V I:4.0850A P:490.90W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:76722x1 lm		
NAME: SB10-500W	TYPE: 500W	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)	9350	12.3
FM - Front-Medium(30-60)	25506	33.6
FH - Front-High(60-80)	11475	15.1
FVH - Front-Very High(80-90)	509.47	0.7
Total Forward Light	46841	61.6
BL - Back-Low(0-30)	7308.1	9.6
BM - Back-Medium(30-60)	15594	20.5
BH - Back-High(60-80)	5987	7.9
BVH - Back-Very High(80-90)	270.75	0.4
Total Back Light	29160	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	29160	0	29160
Street Side	46841	0	46841

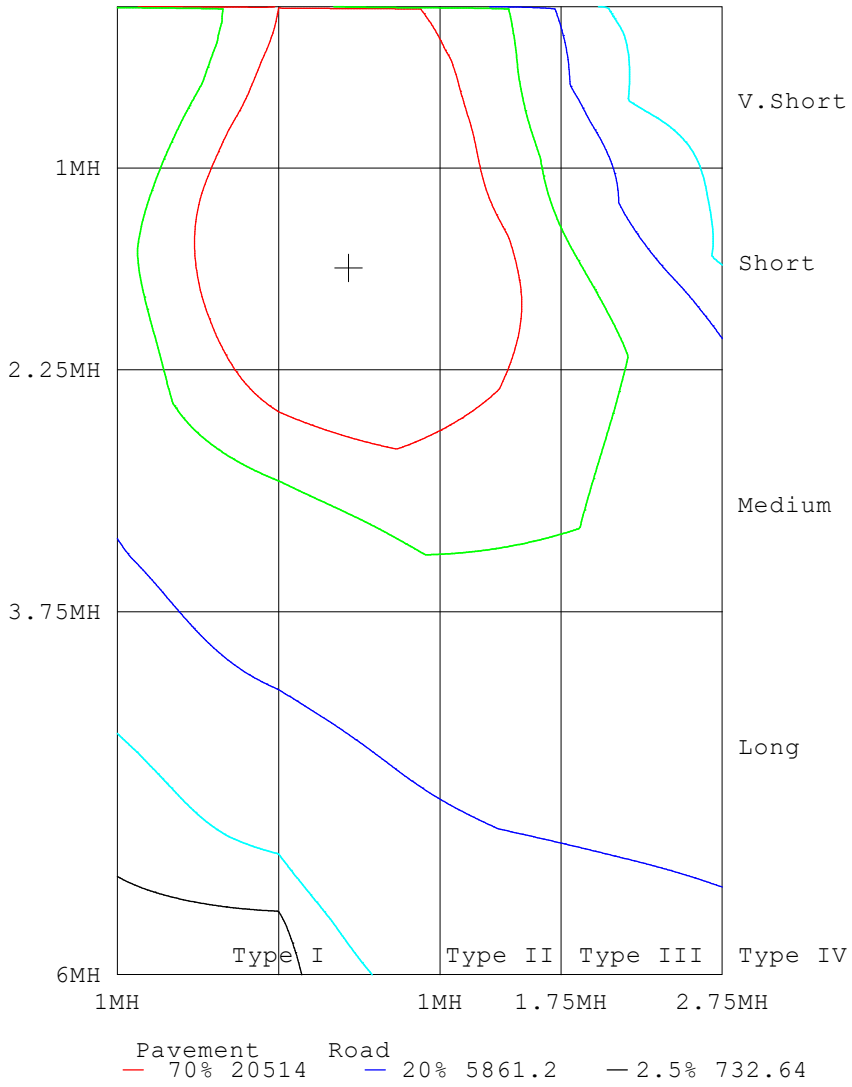
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-12-10

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:120.26V I:4.0850A P:490.90W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:76722x1 lm		
NAME: SB10-500W	TYPE: 500W	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:120.26V I:4.0850A P:490.90W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:76722x1 lm		
NAME: SB10-500W	TYPE: 500W	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	2089	2074	2063	2052	2045	2036	2030	2021	2016	2010	2007	2001	2089	2074	2063	2052	2045	2036	2030
5	2125	2129	2132	2129	2125	2116	2103	2086	2069	2049	2028	2005	2069	2031	1997	1965	1943	1927	1923
10	2174	2195	2203	2200	2191	2173	2152	2129	2106	2082	2055	2021	2066	2003	1936	1871	1821	1786	1780
15	2235	2270	2278	2265	2240	2211	2179	2151	2129	2110	2085	2048	2082	1992	1886	1774	1682	1618	1603
20	2305	2352	2354	2325	2282	2236	2193	2162	2143	2132	2116	2084	2111	1994	1842	1674	1539	1449	1427
25	2380	2438	2431	2387	2325	2262	2206	2172	2156	2150	2144	2120	2142	1997	1790	1571	1406	1306	1283
30	2455	2521	2504	2450	2372	2277	2197	2169	2170	2168	2166	2155	2171	1991	1732	1475	1297	1187	1159
35	2538	2612	2569	2492	2383	2241	2134	2119	2154	2181	2189	2185	2190	1975	1676	1400	1207	1083	1049
40	2620	2685	2614	2501	2338	2147	2065	2019	2089	2174	2203	2212	2207	1963	1636	1325	1106	976	939
45	2683	2751	2650	2474	2229	2073	2010	1959	1969	2135	2210	2238	2235	1971	1602	1234	987	873	842
50	2748	2828	2671	2401	2129	1986	1868	1868	1891	2044	2210	2284	2281	1984	1566	1115	862	771	727
55	2791	2899	2658	2272	2003	1703	1451	1585	1790	1932	2192	2359	2350	1990	1517	947	710	532	443
60	2735	2930	2592	2156	1682	925	531	777	1474	1844	2137	2459	2433	1971	1419	717	453	297	267
65	2463	2813	2424	1999	1014	202	123	166	771	1694	2033	2558	2502	1895	1214	444	261	138	135
70	1717	2166	2044	1687	277	85.2	85.2	86.3	191	1301	1914	2459	2411	1723	762	222	107	102	113
75	923	1363	1466	949	75.0	66.0	62.8	67.7	70.1	662	1800	1725	1614	1190	202	106	75.3	81.4	101
80	64.1	439	767	131	44.3	43.0	40.7	44.8	45.6	103	1094	962	754	299	87.2	63.5	49.6	59.7	74.2
85	19.6	61.1	111	24.3	23.0	21.1	20.3	22.8	25.8	29.9	165	160	76.9	121	25.0	34.2	27.8	49.3	57.5
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
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:120.26V I:4.0850A P:490.90W PF:0.9993 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:76722x1 lm		
NAME: SB10-500W	TYPE: 500W	WEIGHT:
SPEC.: 5000K	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	2021	2016	2010	2007	2001														
5	1924	1939	1959	1985	2009														
10	1794	1837	1893	1961	2026														
15	1630	1707	1813	1939	2052														
20	1463	1565	1716	1905	2079														
25	1324	1433	1613	1865	2107														
30	1207	1323	1523	1826	2141														
35	1094	1219	1445	1807	2196														
40	977	1097	1366	1808	2266														
45	865	962	1256	1798	2304														
50	747	819	1087	1776	2327														
55	478	621	844	1693	2292														
60	278	357	571	1481	2135														
65	127	188	309	1001	1803														
70	99.8	91.3	141	344	1278														
75	80.7	67.1	79.8	86.2	446														
80	66.5	45.6	45.4	43.9	63.9														
85	52.6	23.7	21.2	18.6	20.3														
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: