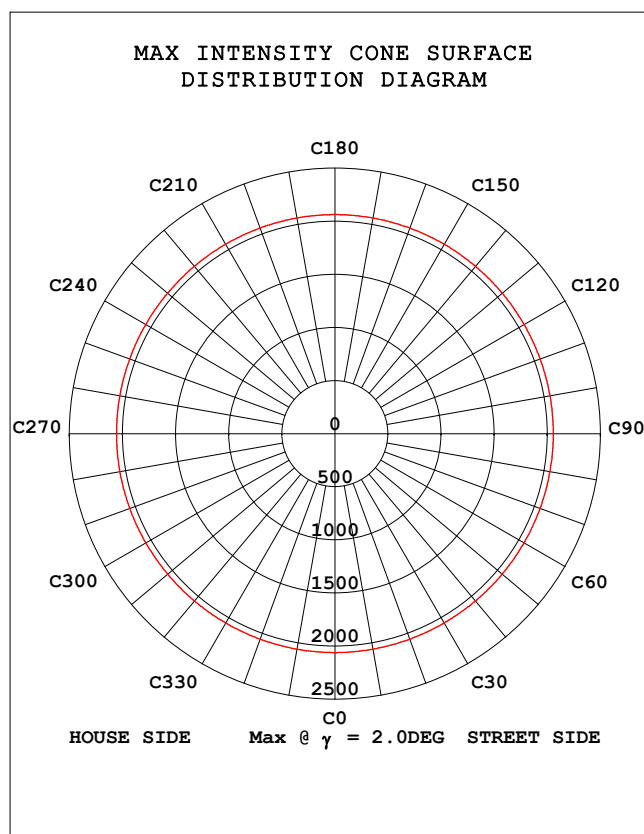
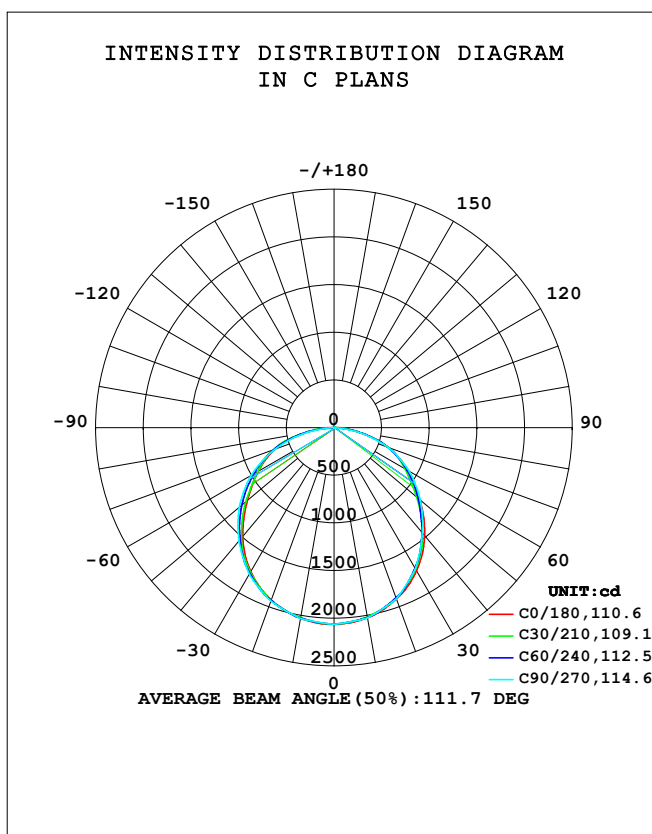


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.52 lm/W			
NJZ MODEL-H-40-V01-RZ-T5-25-FP		Imax(cd)	2064	η street_up(%)	0.0
NOMINAL POWER(W)	40	LOR(%)	100.0	η street_down(%)	48.8
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5956	η house_up(%)	0.0
NOMINAL FLUX(lm)	5955.83	MAXIMUM @ (C, γ)	180,2.0	η house_down(%)	51.2
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	120	η down(%)	100.0	SLI	18.739

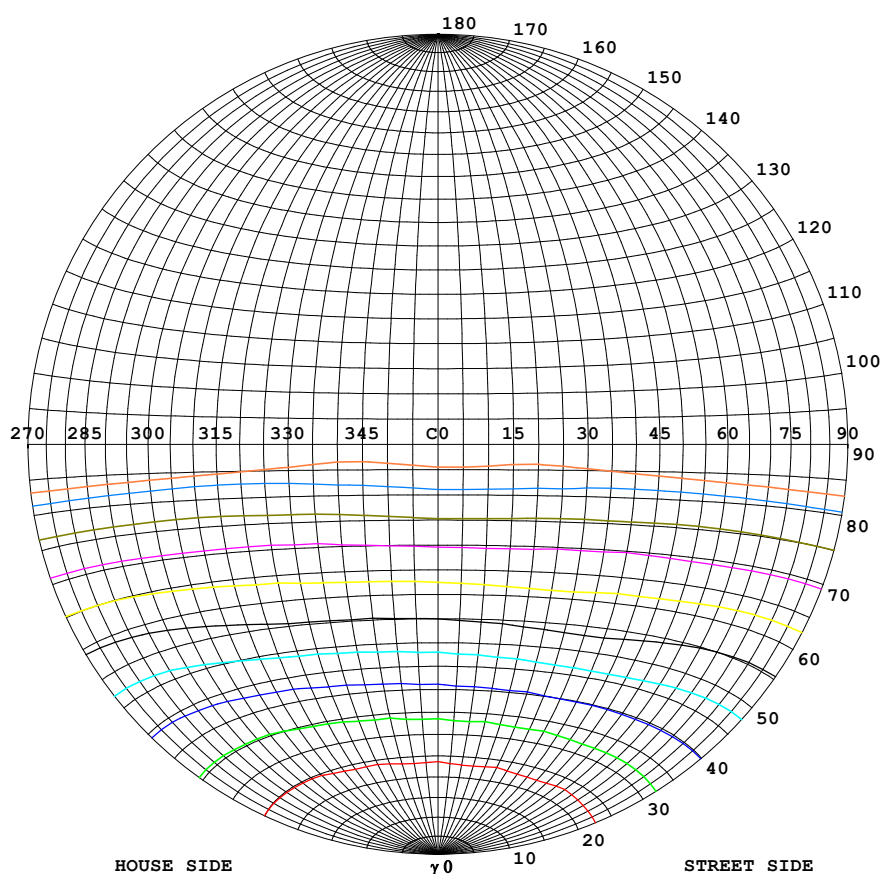


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



Classification:

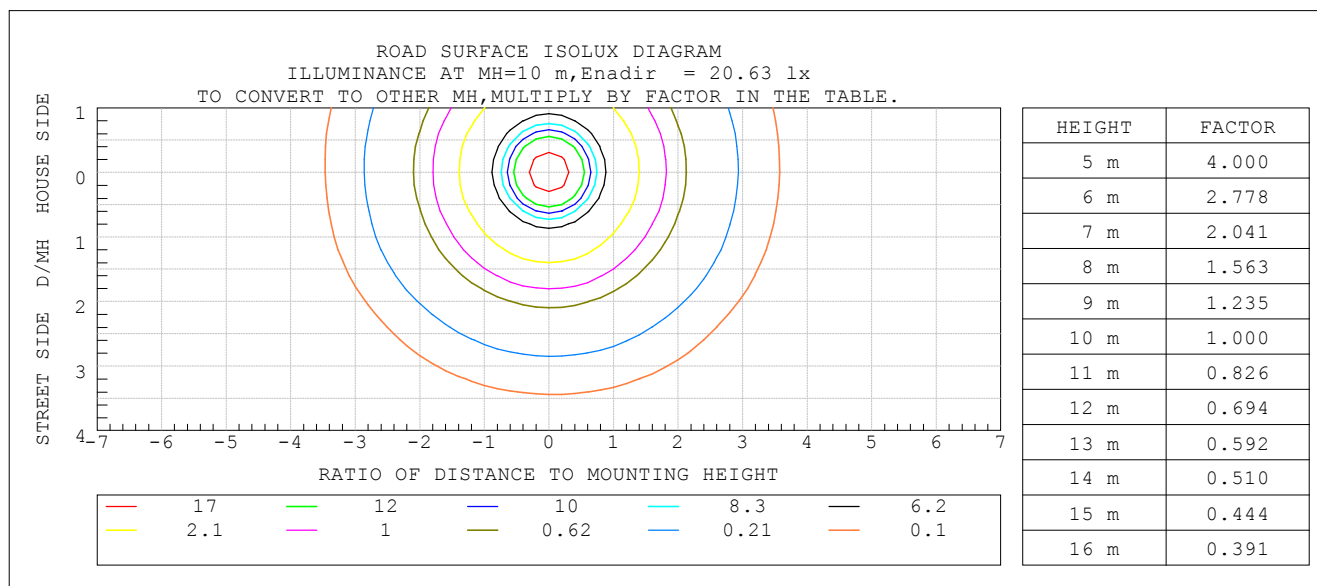
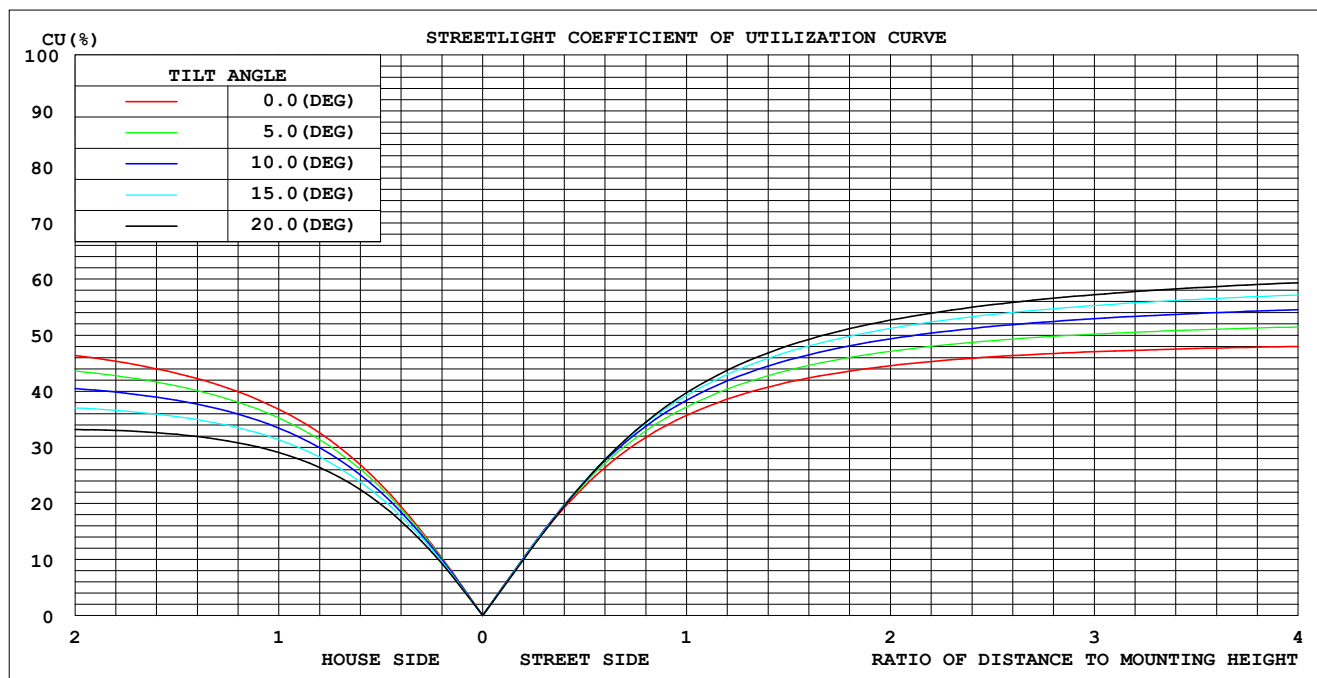
IES:Type VS - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:54.67cd/klm
Max.At90:1.522cd/klm
Max.80-90:54.67cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	2064
90%	1857
80%	1651
70%	1445
60%	1238
50%	1032
40%	826
30%	619
20%	413
10%	206
5%	103

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date:10 May 2019

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.010m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

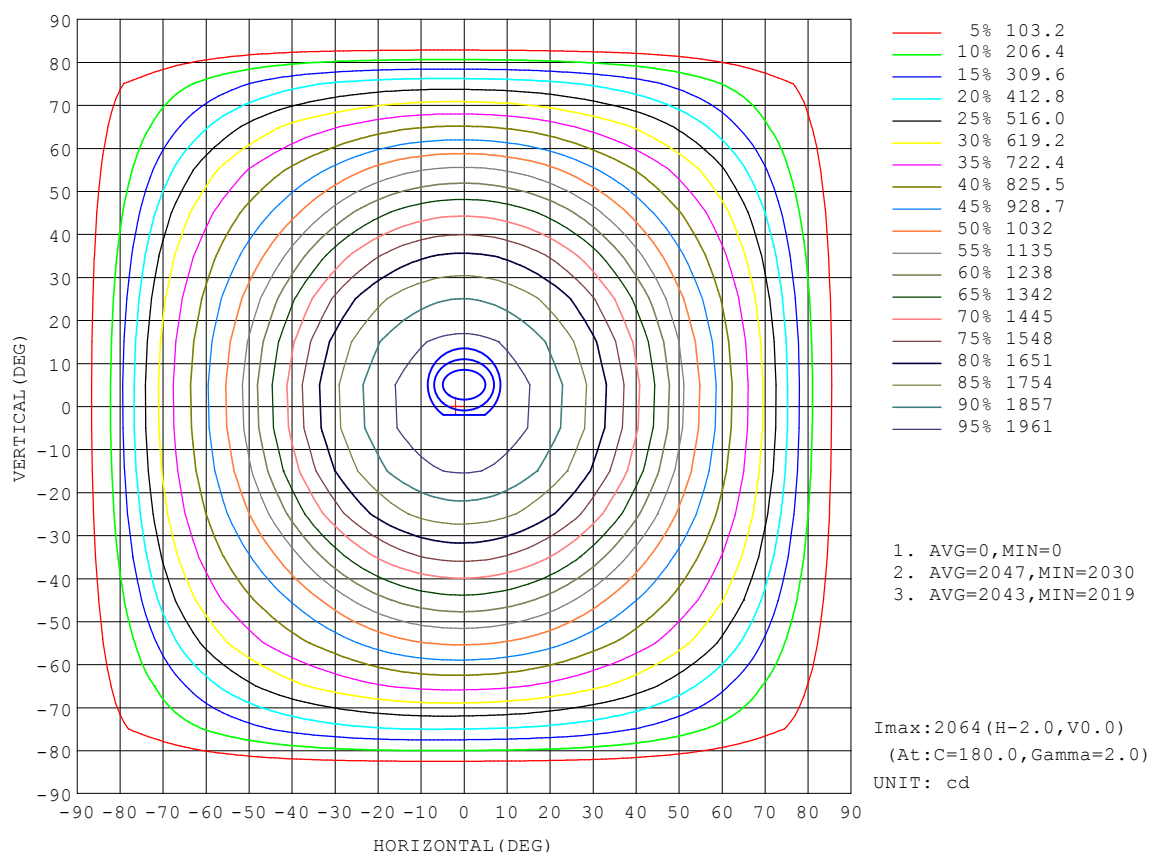
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2025	2017	2026	2020	2030	2025	2032	2022	0- 10	194.7	194.7	3.27,3.27
20	1913	1898	1911	1908	1926	1925	1938	1918	10- 20	558.2	752.9	12.6,12.6
30	1732	1708	1709	1721	1747	1762	1778	1753	20- 30	845.4	1598	26.8,26.8
40	1477	1441	1442	1452	1492	1531	1552	1525	30- 40	1012	2610	43.8,43.8
50	1175	1125	1182	1132	1188	1226	1299	1221	40- 50	1035	3646	61.2,61.2
60	893.5	869.6	907.5	877.9	920.5	940.3	1006	929.0	50- 60	942.6	4588	77,77
70	604.7	602.7	598.5	631.0	657.9	680.8	653.8	645.5	60- 70	771.7	5360	90,90
80	239.5	258.9	227.2	289.4	289.2	324.9	280.5	296.2	70- 80	485.2	5845	98.1,98.1
90	9.063	0	0	0	6.484	0	0	0	80- 90	110.4	5956	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

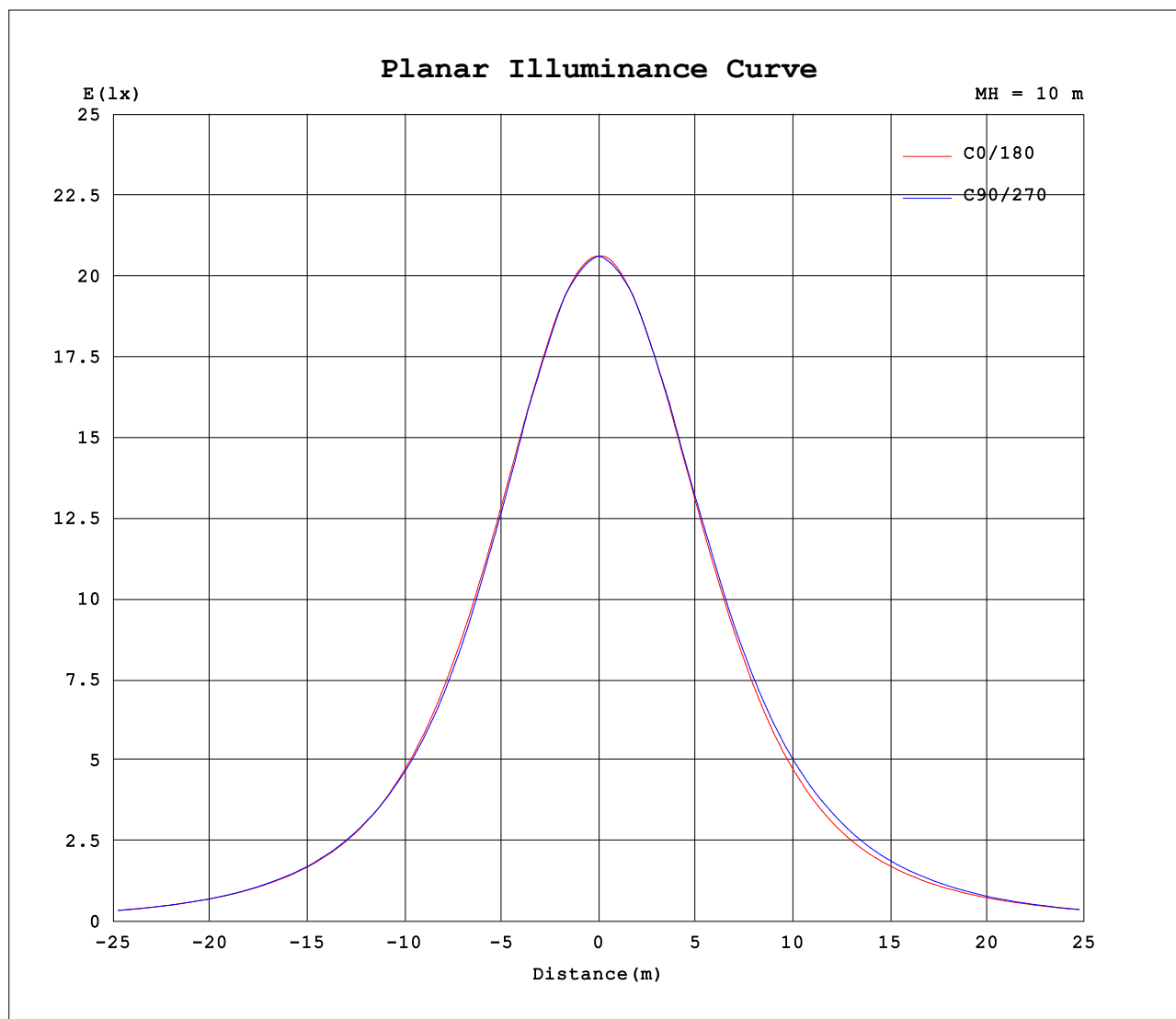
Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

Planar Illuminance Curve



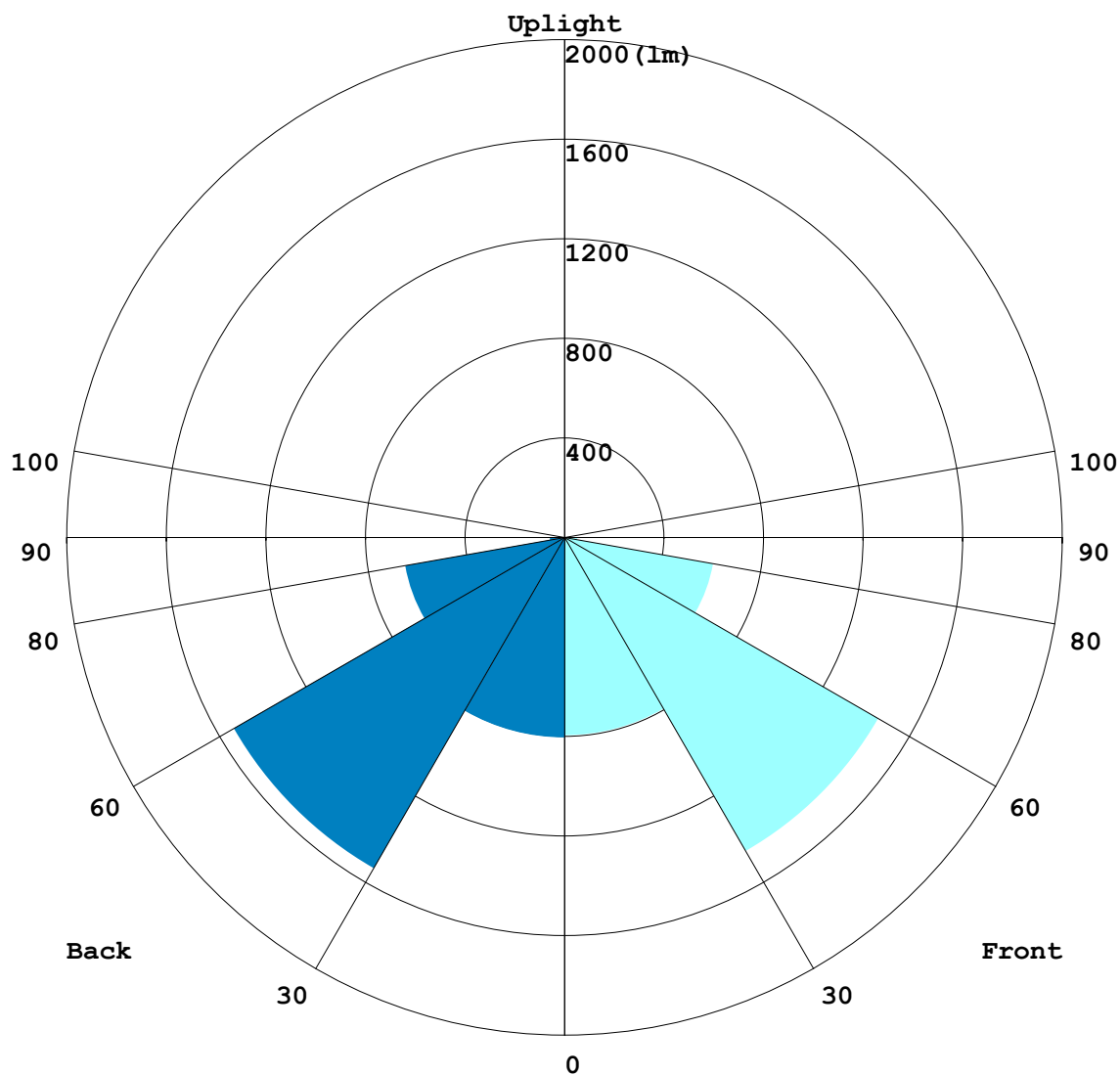
H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:CL
 Test Date:10 May 2019

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.010m [K=1.0000]
 Remarks:

LCS REPORT

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

BUG REPORT

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	794.95	13.3
FM - Front-Medium(30-60)	1455.5	24.4
FH - Front-High(60-80)	606.01	10.2
FVH - Front-Very High(80-90)	51.615	0.9
Total Forward Light	2908.1	48.8

BL - Back-Low(0-30)	803.35	13.5
BM - Back-Medium(30-60)	1534.7	25.8
BH - Back-High(60-80)	650.93	10.9
BVH - Back-Very High(80-90)	58.801	1.0
Total Back Light	3047.8	51.2

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	B2-U0-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3047.8	0	3047.8
Street Side	2908.1	0	2908.1

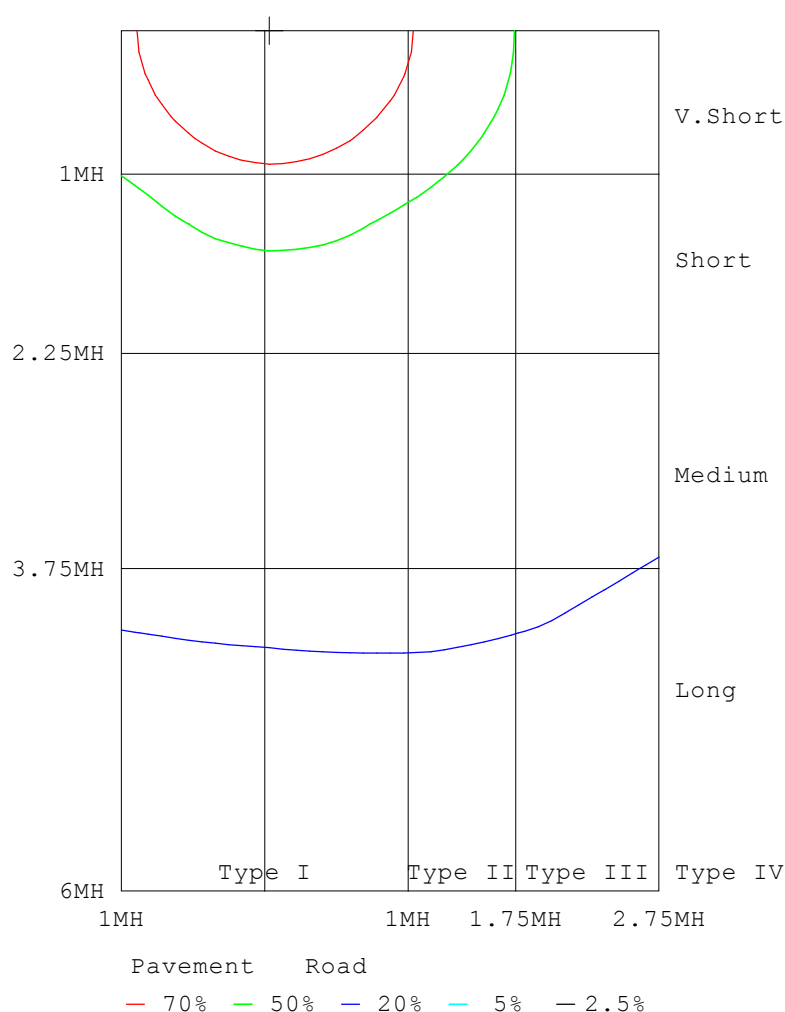
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

ROAD SURFACE ISOCANDELA DIAGRAM



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

Table--1

UNIT: cd

[illegible]

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

```
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:
```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

Table--2

UNIT: cd

Table 2		Chart 2a																		
γ (DEG)	C (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
		2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063
0		2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063
5		2045	2045	2045	2045	2046	2046	2046	2047	2047	2047	2048	2049	2050	2051	2052	2053	2055	2057	2055
10		2026	2025	2024	2023	2023	2022	2021	2020	2020	2019	2019	2019	2020	2021	2023	2024	2027	2030	2028
15		1969	1969	1969	1970	1971	1972	1974	1977	1981	1983	1980	1977	1976	1976	1976	1978	1982	1986	1983
20		1912	1912	1911	1910	1909	1908	1907	1907	1908	1910	1913	1918	1916	1914	1914	1915	1919	1926	1922
25		1811	1812	1813	1816	1818	1821	1827	1831	1828	1826	1826	1828	1834	1837	1834	1835	1839	1847	1842
30		1710	1710	1710	1710	1709	1710	1712	1715	1721	1729	1728	1725	1728	1735	1736	1734	1738	1747	1742
35		1576	1577	1579	1581	1584	1588	1592	1591	1592	1595	1602	1609	1606	1608	1617	1614	1618	1630	1625
40		1443	1442	1443	1442	1442	1443	1445	1447	1452	1452	1454	1461	1469	1465	1472	1478	1479	1492	1487
45		1312	1311	1310	1307	1303	1298	1293	1291	1291	1293	1298	1298	1305	1314	1316	1328	1327	1340	1337
50		1182	1180	1178	1174	1168	1160	1151	1141	1132	1130	1134	1140	1146	1157	1164	1173	1177	1188	1187
55		1045	1044	1043	1039	1032	1023	1013	1004	997	990	987	995	1005	1013	1027	1032	1039	1048	1049
60		909	909	908	904	899	892	885	880	878	878	874	875	882	892	900	907	913	921	923
65		755	758	760	760	760	760	765	767	765	765	769	767	768	772	779	785	788	793	796
70		602	606	610	613	616	618	620	625	631	642	641	642	649	646	648	650	652	658	659
75		417	423	430	437	446	453	460	467	470	470	474	482	483	485	483	481	481	485	489
80		231	238	245	253	261	268	275	283	289	294	294	291	292	295	292	289	285	289	292
85		0.87	3.56	8.16	14.7	23.3	33.7	45.9	60.0	75.8	93.7	115	139	145	144	138	136	133	132	137
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	6.48	0.00
	</																			

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

```
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:
```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

Table--3

UNIT: cd

[illegible]

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

```
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks:
```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:0.3365A P:40.103W PF:0.9922 Freq:59.98Hz Lamp Flux:5955.83x1 lm		
NAME: LED Area Light	TYPE:Arealight	WEIGHT:N/A
SPEC.:40W/5000K	DIM.: N/A	SERIAL No.:N/A
MFR.: NJZ Lighting Technology Co.,Ltd	SUR.:N/A	Shielding Angle:N/A

Table--4

UNIT: cd

[illegible]

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:CL
Test Date:10 May 2019

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.010m [K=1.0000]
Remarks: