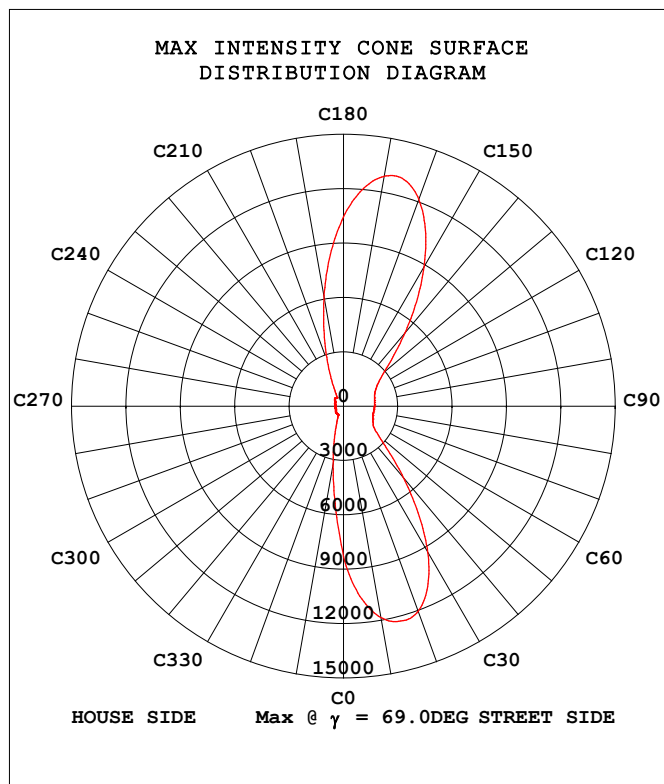
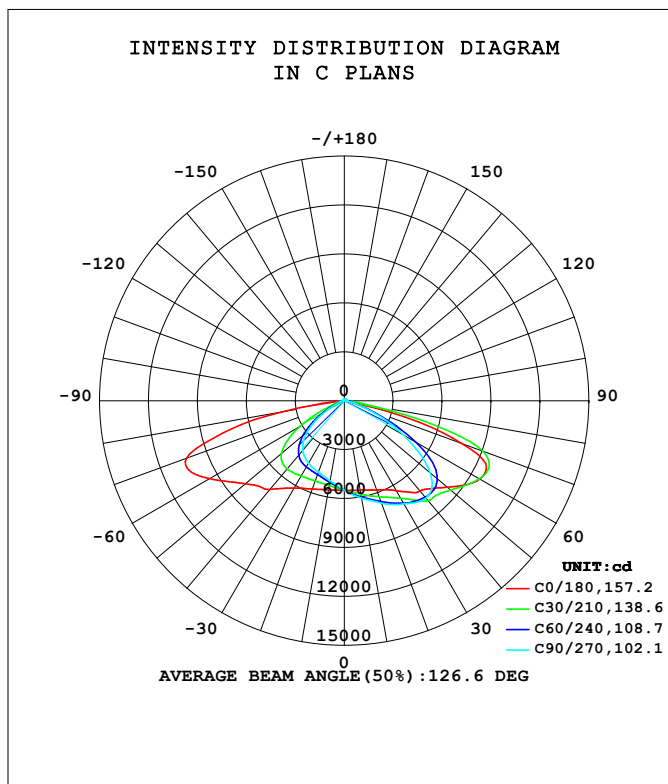


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.36V I:0.6901A P:148.31W PF:0.9798 Freq:49.99Hz Lamp Flux:26674.2x1 lm		
NAME: LED Street Light	TYPE:VL7690-150-NW T3 4000K	WEIGHT:4.8KG
SPEC.:	DIM.: 0.61*0.23*0.11m	SERIAL No.:
MFR.:	SUR.:0.19*0.234m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 179.86 lm/W
MODEL	VL7690-150-NW T3 4000K	I _{max} (cd)	12953	η street_up(%)	1.4	
NOMINAL POWER(W)	150	LOR(%)	100.0	η street_down(%)	63.1	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	26674	η house_up(%)	1.0	
NOMINAL FLUX(lm)	26674.2	MAXIMUM @ (C, γ)	165,69.0	η house_down(%)	34.5	
LAMPS INSIDE	1	η up (%)	2.4	76 FLASHAREA(m2)	0.00100	
TEST VOLTAGE(V)	220	η down (%)	97.6	SLI	20.283	

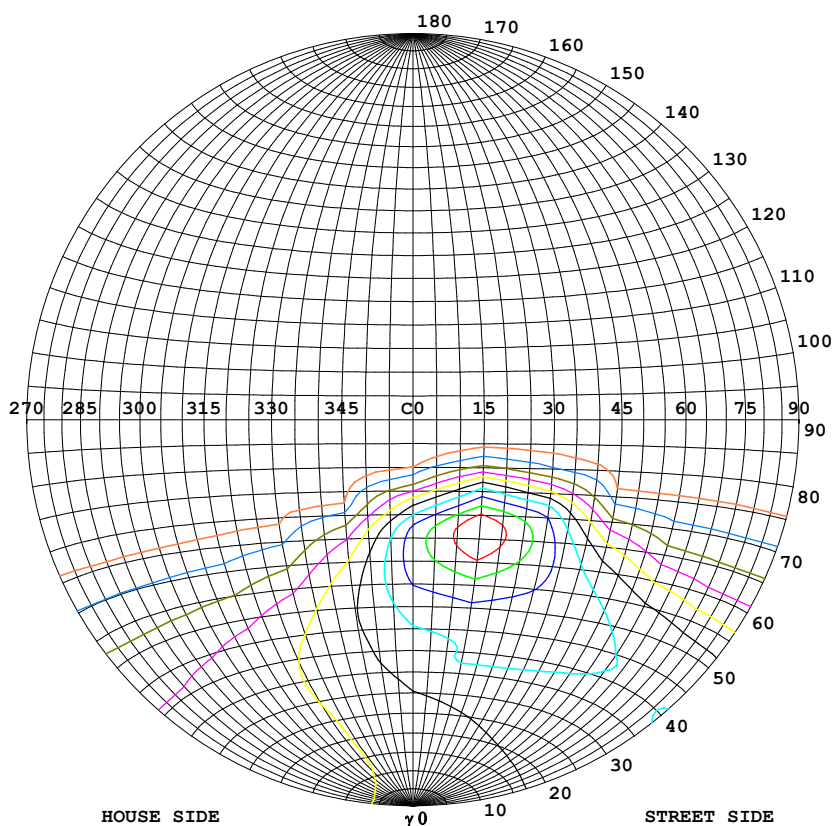


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:CUI
Test Date:2023-07-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:219.36V I:0.6901A P:148.31W PF:0.9798 Freq:49.99Hz Lamp Flux:26674.2x1 lm		
NAME: LED Street Light	TYPE:VL7690-150-NW T3 4000K	WEIGHT:4.8KG
SPEC.:	DIM.: 0.61*0.23*0.11m	SERIAL No.:
MFR.:	SUR.:0.19*0.234m	Shielding Angle:



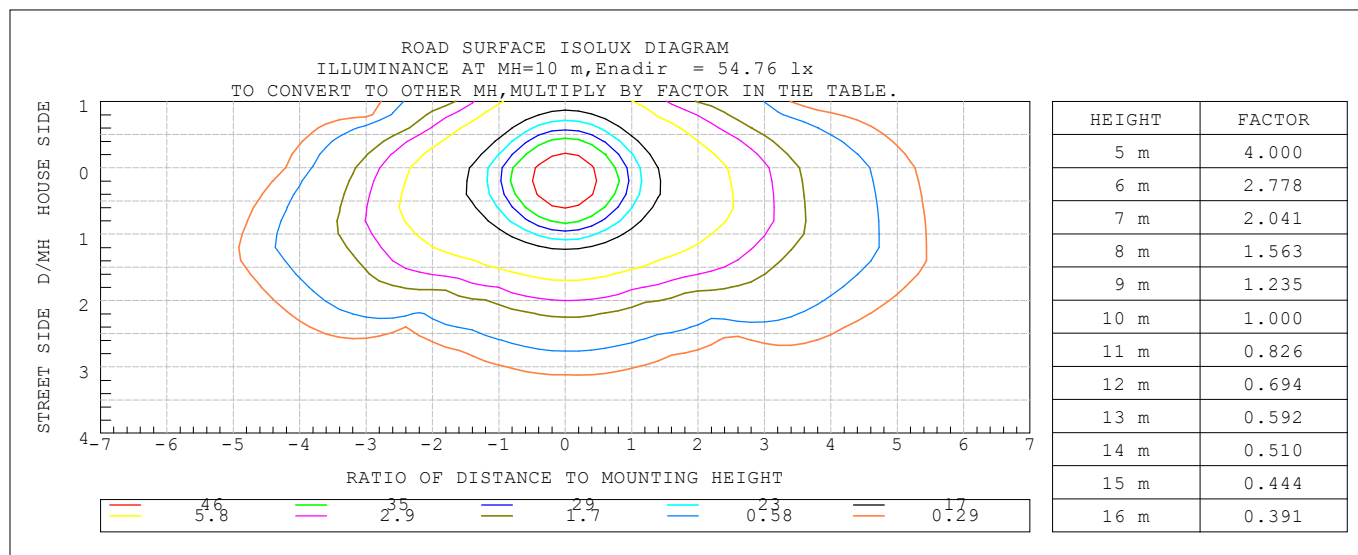
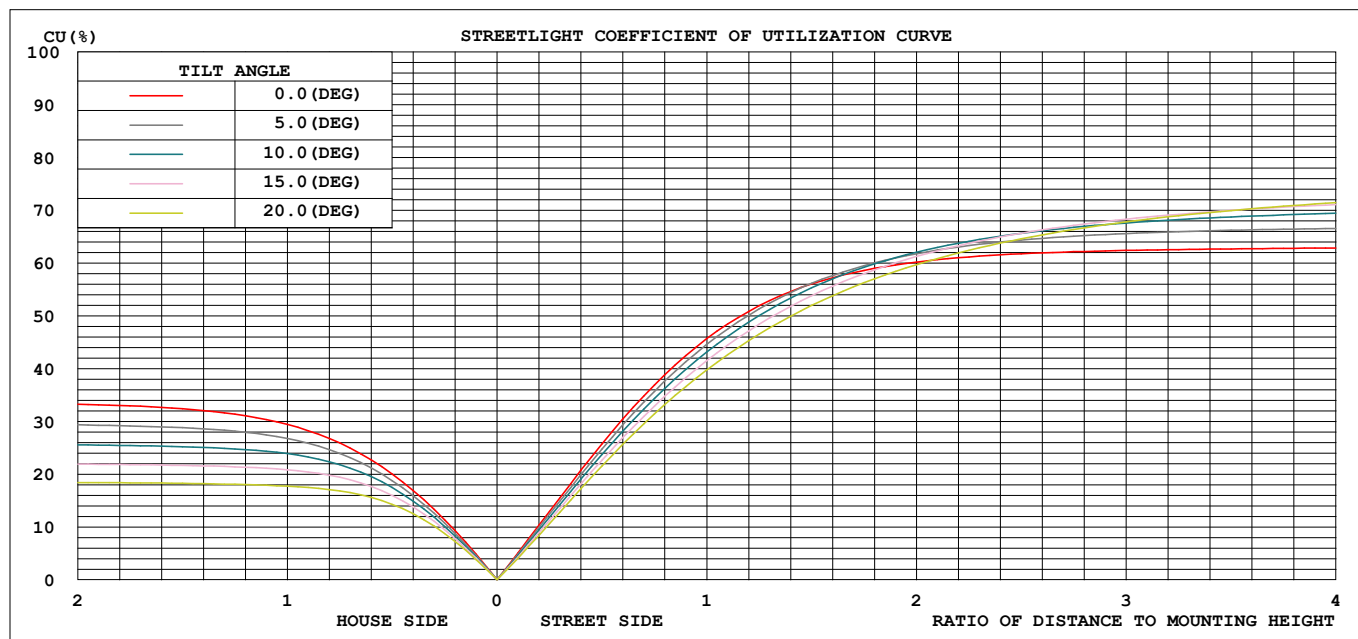
Classification:

IES:Type III - Medium
CIE:Narrow - Intermediate
IES:None cut-off
CIE:Non-cut-off
Max.At80:201.6cd/klm
Max.At90:11.28cd/klm
Max.80-90:201.6cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	12953
90%	11657
80%	10362
70%	9067
60%	7772
50%	6476
40%	5181
30%	3886
20%	2591
10%	1295
5%	648

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:CUI
Test Date:2023-07-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24DEG
Operators: CUI
Test Date: 2023-07-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity: 65.0%
Test Distance: 8.100m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:219.36V I:0.6901A P:148.31W PF:0.9798 Freq:49.99Hz Lamp Flux:26674.2x1 lm		
NAME: LED Street Light	TYPE:VL7690-150-NW T3 4000K	WEIGHT:4.8KG
SPEC.:	DIM.: 0.61*0.23*0.11m	SERIAL No.:
MFR.:	SUR.:0.19*0.234m	Shielding Angle:

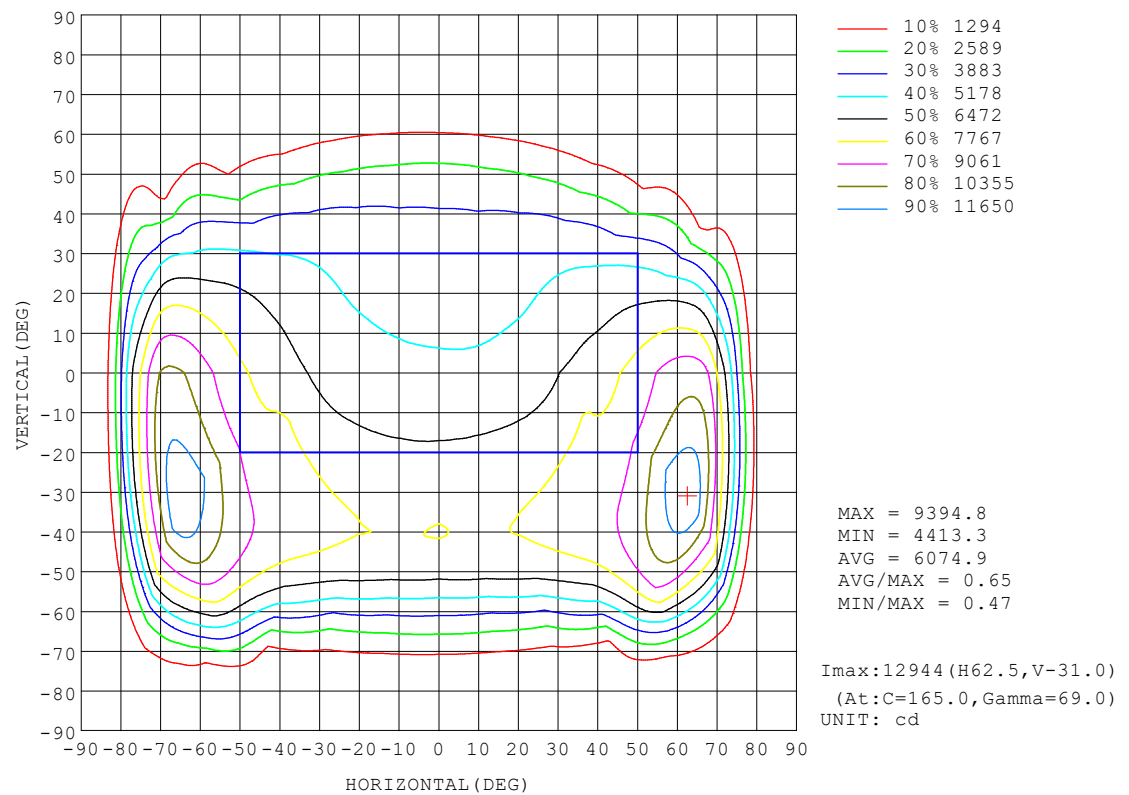
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	557.4	591.5	606.6	590.8	555.2	517.4	500.2	516.4	0- 10	526.9	526.9	1.98,1.98
20	582.4	644.3	668.3	643.6	576.2	501.4	466.9	502.5	10- 20	1597	2124	7.96,7.96
30	636.9	710.1	730.7	712.5	618.2	495.5	441.2	497.5	20- 30	2728	4852	18.2,18.2
40	722.5	784.3	779.1	785.0	709.4	483.7	397.4	475.3	30- 40	3937	8788	32.9,32.9
50	824.6	815.4	687.2	818.5	792.6	388.7	297.5	359.6	40- 50	4921	13710	51.4,51.4
60	959.9	705.5	417.4	718.4	955.8	196.4	134.4	158.6	50- 60	5185	18894	70.8,70.8
70	765.3	298.1	147.6	335.9	1031	60.13	41.67	54.04	60- 70	4441	23336	87.5,87.5
80	65.01	49.65	34.72	54.88	365.8	25.33	12.94	22.29	70- 80	2316	25652	96.2,96.2
90	13.49	16.21	14.37	21.13	12.47	7.383	4.968	6.910	80- 90	394.6	26046	97.6,97.6
100	13.59	11.84	11.49	12.11	6.457	6.821	5.911	7.649	90-100	110.1	26156	98.1,98.1
110	13.43	11.36	10.78	11.21	7.434	7.463	6.854	8.293	100-110	102.2	26259	98.4,98.4
120	12.58	11.00	10.32	10.47	7.971	8.072	7.727	9.113	110-120	96.19	26355	98.8,98.8
130	11.94	10.74	10.14	9.964	8.482	8.462	8.403	9.709	120-130	86.70	26441	99.1,99.1
140	11.87	10.64	10.15	9.751	9.151	9.281	8.942	10.24	130-140	75.90	26517	99.4,99.4
150	11.81	10.81	10.39	10.03	9.954	10.40	9.616	10.90	140-150	64.14	26581	99.7,99.7
160	11.54	11.18	10.91	10.74	10.54	11.26	10.59	11.39	150-160	49.80	26631	99.8,99.8
170	11.31	11.58	11.40	11.42	10.87	11.68	11.39	11.72	160-170	31.91	26663	100,100
180	11.17	11.80	11.65	11.78	11.21	11.78	11.67	11.77	170-180	11.02	26674	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:CUI
Test Date:2023-07-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

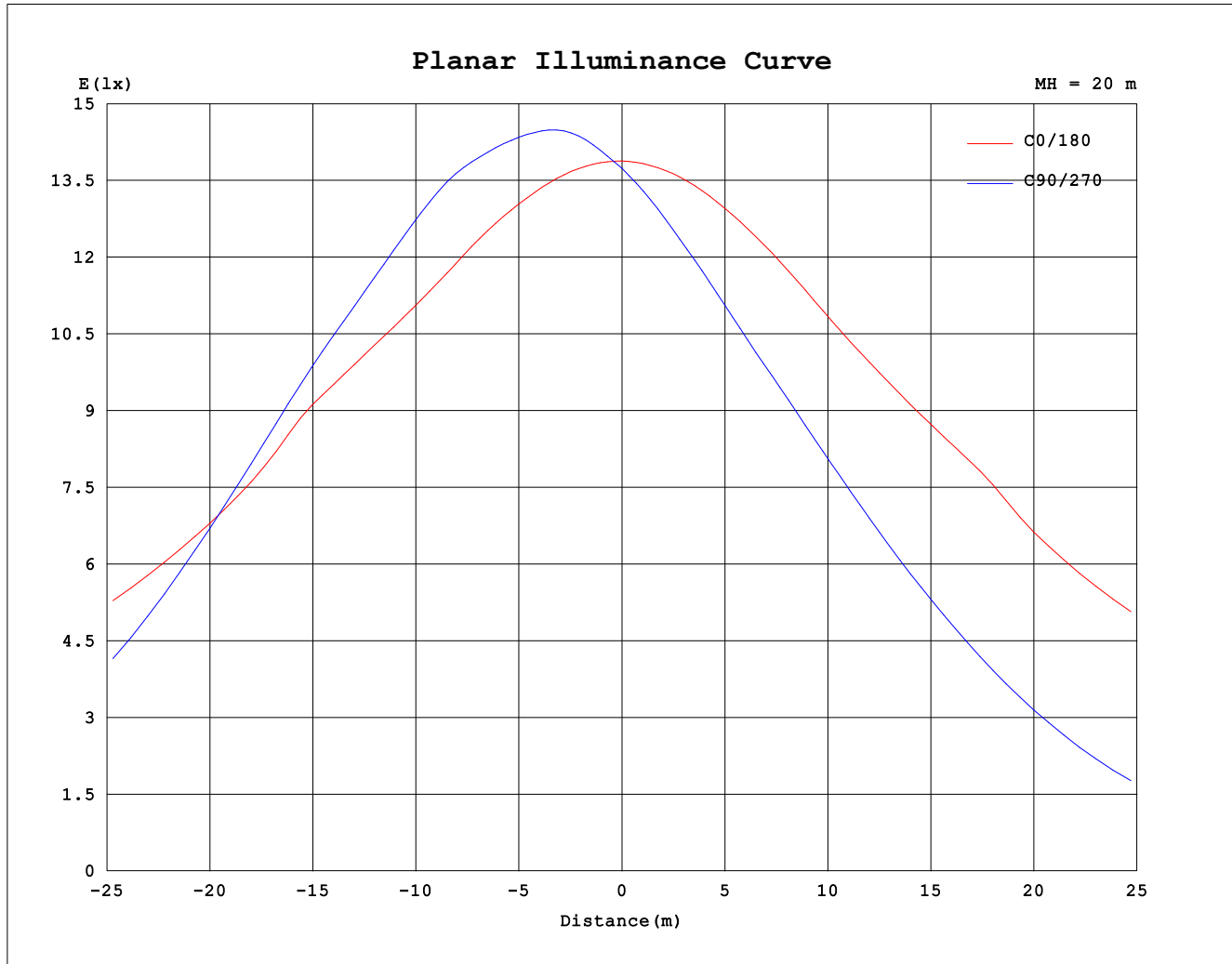
Test:U:219.36V I:0.6901A P:148.31W PF:0.9798 Freq:49.99Hz Lamp Flux:26674.2x1 lm		
NAME: LED Street Light	TYPE:VL7690-150-NW T3 4000K	WEIGHT:4.8KG
SPEC.:	DIM.: 0.61*0.23*0.11m	SERIAL No.:
MFR.:	SUR.:0.19*0.234m	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:CUI
Test Date:2023-07-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



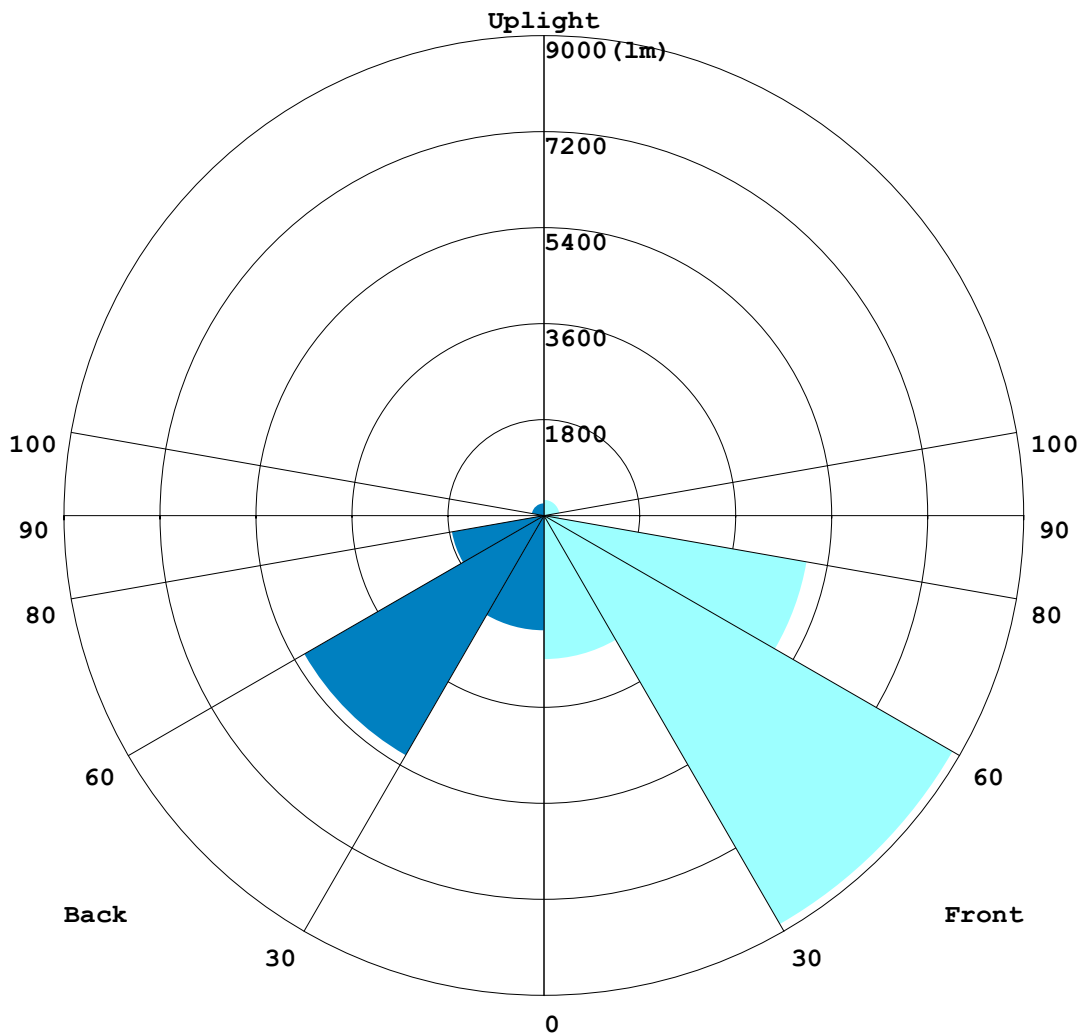
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24DEG
Operators: CUI
Test Date: 2023-07-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity: 65.0%
Test Distance: 8.100m [K=1.0000]
Remarks:

LCS REPORT

Test:U:219.36V I:0.6901A P:148.31W PF:0.9798 Freq:49.99Hz Lamp Flux:26674.2x1 lm		
NAME: LED Street Light	TYPE:VL7690-150-NW T3 4000K	WEIGHT:4.8KG
SPEC.:	DIM.: 0.61*0.23*0.11m	SERIAL No.:
MFR.:	SUR.:0.19*0.234m	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:CUI
Test Date:2023-07-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

BUG REPORT

Test:U:219.36V I:0.6901A P:148.31W PF:0.9798 Freq:49.99Hz Lamp Flux:26674.2x1 lm		
NAME: LED Street Light	TYPE: VL7690-150-NW T3 4000K	WEIGHT:4.8KG
SPEC.:	DIM.: 0.61*0.23*0.11m	SERIAL No.:
MFR.:	SUR.:0.19*0.234m	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	2696.3	10.1
FM - Front-Medium(30-60)	8850.4	33.2
FH - Front-High(60-80)	5006.2	18.8
FVH - Front-Very High(80-90)	283.26	1.1
Total Forward Light	17203	64.5

BL - Back-Low(0-30)	2155.4	8.1
BM - Back-Medium(30-60)	5192.3	19.5
BH - Back-High(60-80)	1751.2	6.6
BVH - Back-Very High(80-90)	111.31	0.4
Total Back Light	9471.3	35.5

UL - Uplight-Low(90-100)	110.07	0.4
UH - Uplight-High(100-180)	517.82	1.9
Total Up Light	627.9	2.4

BUG(Back,Up,Glare) Rating	B4-U4-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	9210.1	261.17	9471.3
Street Side	16836	366.72	17203

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:CUI
Test Date:2023-07-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.36V I:0.6901A P:148.31W PF:0.9798 Freq:49.99Hz Lamp Flux:26674.2x1 lm		
NAME: LED Street Light	TYPE:VL7690-150-NW T3 4000K	WEIGHT:4.8KG
SPEC.:	DIM.: 0.61*0.23*0.11m	SERIAL No.:
MFR.:	SUR.:0.19*0.234m	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549
5	551	558	564	569	574	577	578	577	574	569	564	558	550	544	537	532	527	524	523
10	557	571	582	591	599	605	607	605	599	591	581	571	555	542	529	517	508	503	500
15	567	587	604	617	626	632	634	632	625	615	603	587	563	544	525	508	494	484	481
20	582	606	627	644	658	666	668	665	657	644	627	607	576	550	524	501	482	470	467
25	603	630	654	677	693	700	703	700	693	679	657	631	593	560	527	497	474	460	455
30	637	667	691	710	725	731	731	730	724	713	693	665	618	577	532	495	468	449	441
35	685	733	743	750	754	756	762	757	753	749	739	722	657	601	541	494	458	432	423
40	723	778	799	784	772	768	779	774	775	785	796	793	709	628	546	484	436	406	397
45	761	804	813	806	775	763	758	769	779	808	827	811	742	649	538	451	394	365	356
50	825	877	852	815	744	705	687	711	752	818	854	869	793	666	503	389	331	305	298
55	901	990	906	790	661	584	563	594	676	794	898	966	866	663	428	300	250	227	220
60	960	1144	957	706	507	426	417	441	529	718	936	1103	956	624	314	196	162	143	134
65	961	1278	978	546	319	282	280	295	344	569	937	1248	1035	538	181	108	89.0	79.2	72.8
70	765	1172	904	298	163	146	148	154	184	336	867	1282	1031	374	77.3	60.1	52.1	45.9	41.7
75	382	829	552	88.0	71.8	68.7	66.6	71.7	81.6	119	626	1004	773	121	49.3	42.4	34.7	29.7	31.3
80	65.0	299	138	49.7	49.9	48.1	34.7	49.6	53.2	54.9	203	538	366	36.2	31.6	25.3	20.9	14.4	12.9
85	21.0	50.6	46.3	33.5	33.2	29.6	14.5	30.4	37.5	39.6	57.7	104	62.4	21.5	16.5	14.1	10.5	6.43	4.59
90	13.5	15.9	16.2	17.7	18.1	14.4	19.0	20.6	21.1	24.8	30.1	12.5	10.6	8.39	7.38	6.01	5.21	4.97	
95	13.3	13.0	12.2	12.1	12.5	12.8	12.4	12.8	12.8	13.0	13.9	6.34	6.49	6.63	6.43	5.96	5.60	5.43	
100	13.6	13.6	12.5	11.8	12.0	12.0	11.5	11.3	11.7	12.1	12.9	13.9	6.46	6.77	6.95	6.82	6.38	6.03	5.91
105	13.7	13.9	12.7	11.6	11.6	11.6	11.1	10.9	11.1	11.7	12.8	14.1	7.00	7.12	7.24	7.15	6.80	6.46	6.39
110	13.4	13.8	12.5	11.4	11.2	11.2	10.8	10.5	10.7	11.2	12.5	13.9	7.43	7.46	7.49	7.46	7.17	6.88	6.85
115	13.0	13.4	12.2	11.2	10.9	10.9	10.5	10.2	10.3	10.8	12.1	13.4	7.71	7.71	7.76	7.80	7.52	7.28	7.30
120	12.6	12.8	11.8	11.0	10.7	10.7	10.3	9.98	9.97	10.5	11.6	12.6	7.97	7.90	7.97	8.07	7.86	7.67	7.73
125	12.2	12.3	11.5	10.9	10.6	10.6	10.2	9.80	9.73	10.2	11.1	11.9	8.22	8.07	8.09	8.24	8.14	8.02	8.10
130	11.9	11.9	11.4	10.7	10.5	10.5	10.1	9.70	9.58	9.96	10.8	11.4	8.48	8.29	8.31	8.46	8.40	8.31	8.40
135	11.9	11.6	11.2	10.7	10.5	10.5	10.1	9.64	9.48	9.81	10.5	11.1	8.78	8.68	8.74	8.81	8.71	8.58	8.67
140	11.9	11.5	11.1	10.6	10.5	10.6	10.1	9.64	9.45	9.75	10.4	11.1	9.15	9.19	9.28	9.28	9.11	8.90	8.94
145	11.9	11.5	11.1	10.7	10.6	10.7	10.2	9.70	9.50	9.82	10.5	11.3	9.56	9.71	9.84	9.84	9.61	9.31	9.24
150	11.8	11.5	11.1	10.8	10.8	10.8	10.4	9.85	9.66	10.03	10.7	11.4	9.95	10.2	10.4	10.4	10.2	9.81	9.62
155	11.7	11.5	11.2	11.0	11.0	11.1	10.6	10.1	9.94	10.4	11.0	11.5	10.3	10.5	10.8	10.9	10.8	10.4	10.1
160	11.5	11.5	11.3	11.2	11.3	11.4	10.9	10.4	10.3	10.7	11.2	11.6	10.5	10.8	11.0	11.3	11.3	11.0	10.6
165	11.4	11.5	11.4	11.4	11.6	11.6	11.2	10.7	10.7	11.1	11.5	11.6	10.7	10.9	11.2	11.5	11.7	11.5	11.0
170	11.3	11.5	11.4	11.6	11.8	11.9	11.4	11.0	11.1	11.4	11.6	11.6	10.9	11.0	11.3	11.7	12.0	11.8	11.4
175	11.3	11.4	11.5	11.7	12.0	12.0	11.6	11.2	11.3	11.6	11.7	11.7	11.0	11.2	11.4	11.8	12.1	12.0	11.6
180	11.2	11.3	11.5	11.8	12.1	12.1	11.6	11.4	11.5	11.8	11.7	11.6	11.2	11.3	11.5	11.8	12.1	12.1	11.7

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:CUI
Test Date:2023-07-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_v1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.36V I:0.6901A P:148.31W PF:0.9798 Freq:49.99Hz Lamp Flux:26674.2x1 lm		
NAME: LED Street Light	TYPE: VL7690-150-NW T3 4000K	WEIGHT:4.8KG
SPEC.:	DIM.: 0.61*0.23*0.11m	SERIAL No.:
MFR.:	SUR.:0.19*0.234m	Shielding Angle:

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	549	549	549	549	549													
5	524	527	532	537	544													
10	502	507	516	528	541													
15	484	493	508	524	544													
20	471	483	503	526	551													
25	460	475	498	528	562													
30	448	468	498	536	582													
35	430	455	493	544	609													
40	402	427	475	543	631													
45	358	381	433	523	645													
50	296	313	360	467	646													
55	217	230	263	370	612													
60	133	141	159	242	532													
65	70.4	75.0	83.7	118	385													
70	43.6	48.1	54.0	57.2	154													
75	28.9	32.2	37.9	41.0	42.2													
80	13.0	17.6	22.3	24.4	25.3													
85	5.99	9.38	11.9	12.1	15.9													
90	5.13	5.92	6.91	7.36	8.04													
95	5.62	6.32	7.13	7.23	6.86													
100	6.15	6.84	7.65	7.52	7.19													
105	6.66	7.39	8.09	7.76	7.45													
110	7.17	7.91	8.29	7.98	7.64													
115	7.65	8.34	8.61	8.26	7.78													
120	8.09	8.72	9.11	8.57	7.90													
125	8.46	9.06	9.47	8.86	8.02													
130	8.77	9.34	9.71	9.12	8.29													
135	9.04	9.60	9.96	9.56	8.76													
140	9.29	9.87	10.2	10.02	9.31													
145	9.56	10.1	10.6	10.4	9.84													
150	9.87	10.4	10.9	10.8	10.3													
155	10.3	10.8	11.2	11.1	10.7													
160	10.7	11.1	11.4	11.3	11.0													
165	11.0	11.4	11.6	11.4	11.2													
170	11.3	11.5	11.7	11.6	11.4													
175	11.4	11.6	11.8	11.7	11.5													
180	11.4	11.5	11.8	11.7	11.6													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:CUI
Test Date:2023-07-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: