

LED ROAD LIGHT



Light Output Ratio:	100.0%
Luminaire Power:	100.1 W

I80 = 11.4 cd per klm.	I88 = 1.4 cd per klm.
I90 = 1.4 cd per klm.	I80/I88 = 7.982

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-11-24

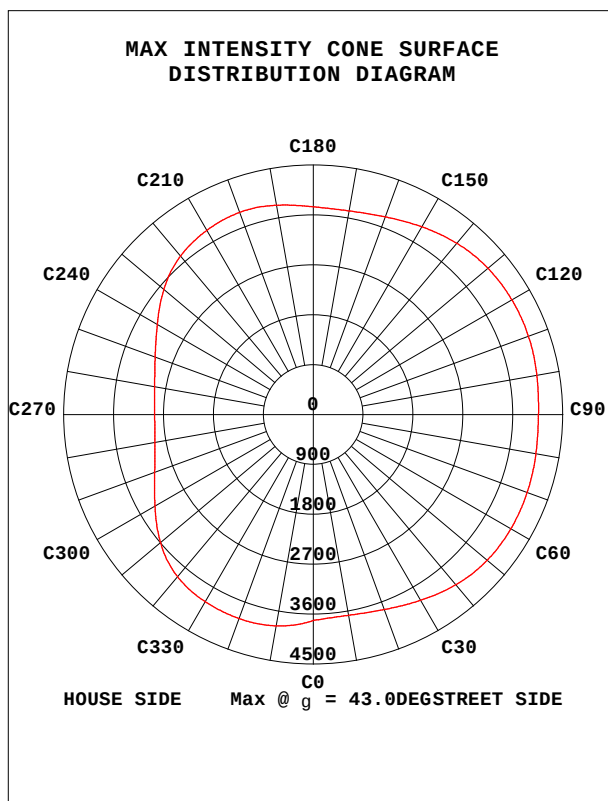
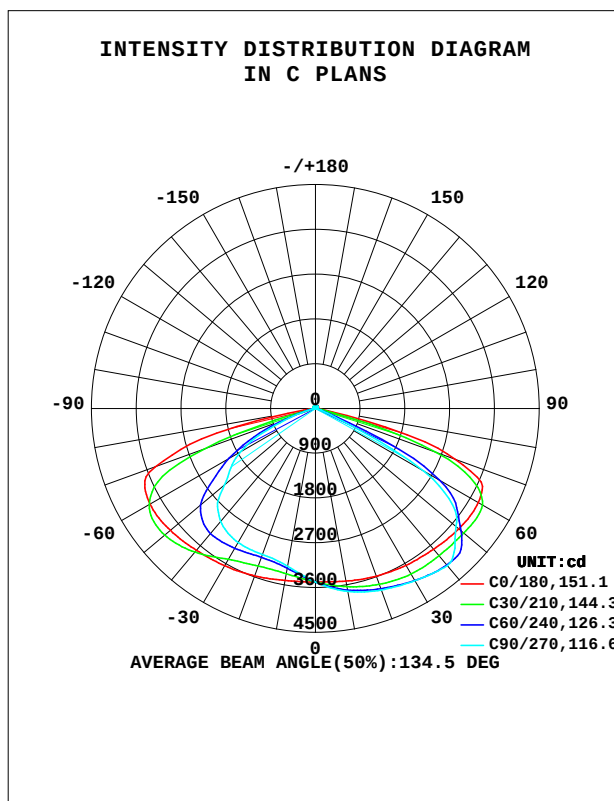
g Range: 0 - 150DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity: 56%
Test Distance: 10.580m [K=1.0000]
Remarks:

SHYLON GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.16V I:0.4647A P:100.08W PF:0.9784 Freq:49.99Hz Lamp Flux:270.318x54 lm		
NAME: SL7502-100	TYPE:Road Light	SERIAL No.:2018112406
	SUR.:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.85 lm/W			
MODEL		Imax(cd)	4137	h street_up(%)	0.6
NOMINAL POWER(W)	100	LOR(%)	100.0	h street_down(%)	52.2
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	14597	h house_up(%)	0.8
NOMINAL FLUX(lm)	270.318	MAXIMUM @(C, g)	120, 43.0	h house_down(%)	46.3
LAMPS INSIDE	54	h up(%)	1.4	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.159	h down(%)	98.6	SLI	18.488

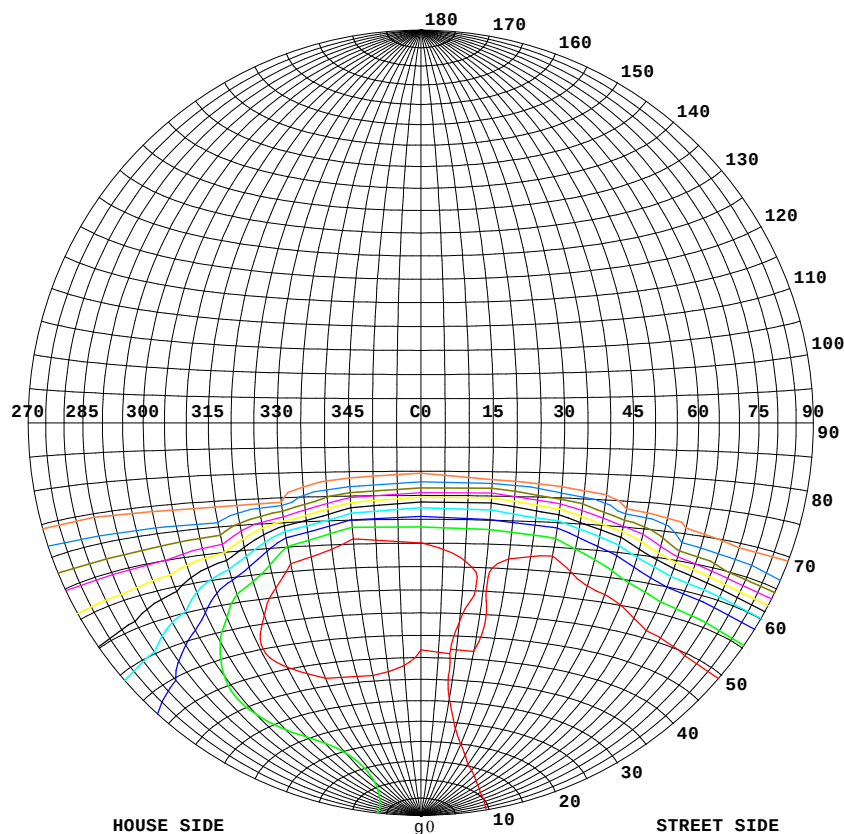


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-11-24

g Range: 0 - 150DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.16V I:0.4647A P:100.08W PF:0.9784 Freq:49.99Hz Lamp Flux:270.318x54 lm		
NAME: SL7502-100	TYPE:Road Light	SERIAL No.:2018112406
	SUR.:	



Classification:

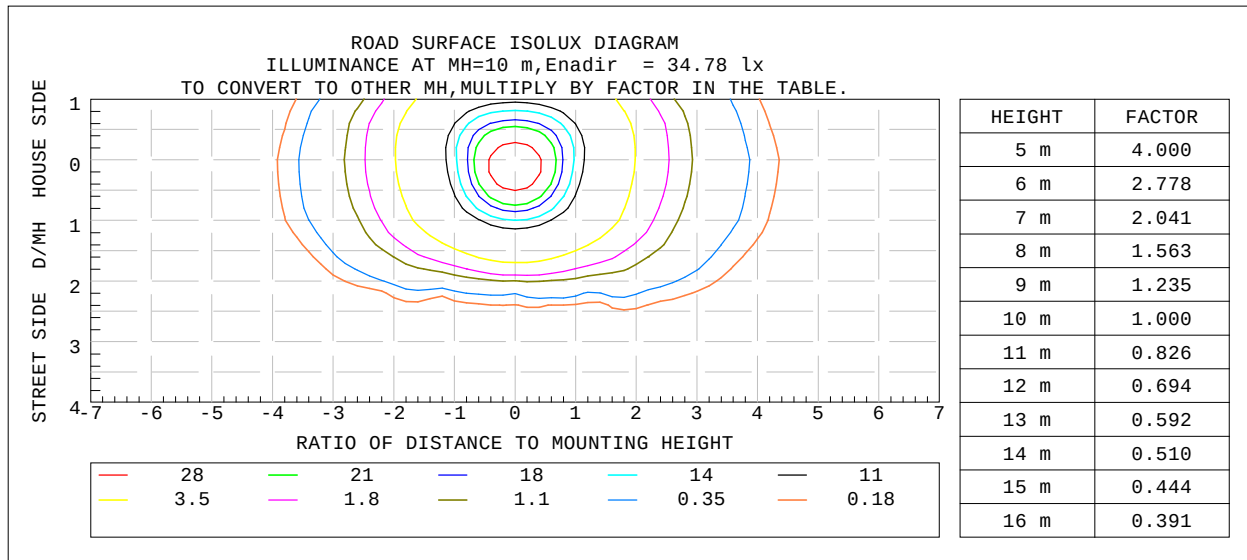
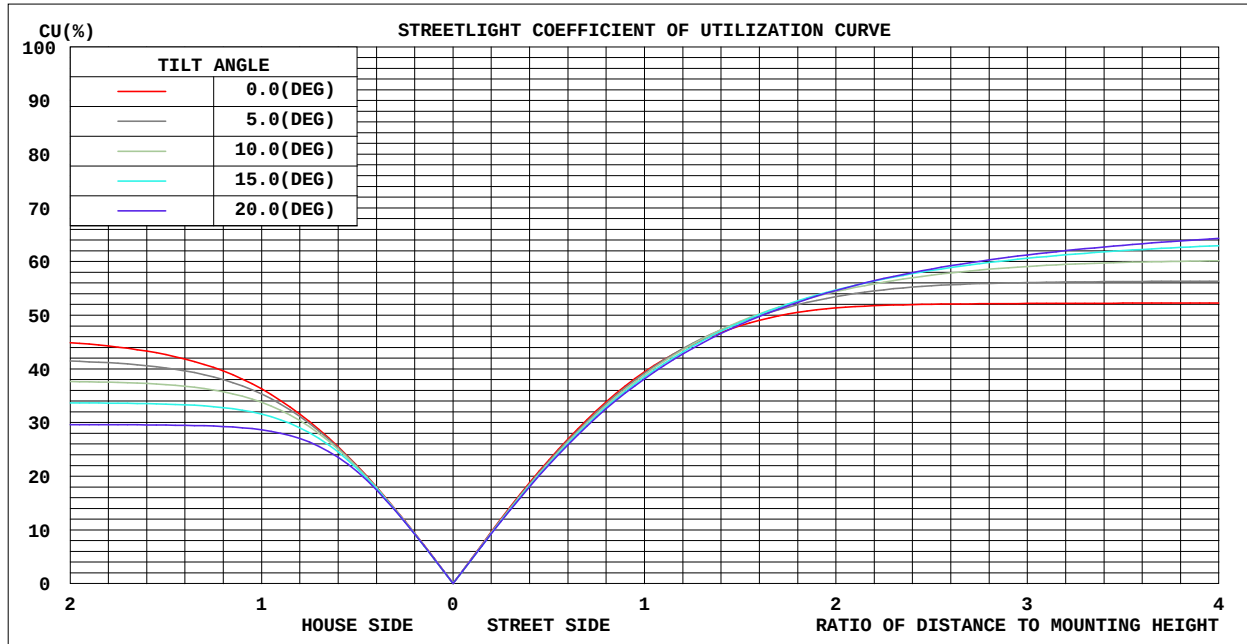
IES:Type III - Very Short
 CIE:Average - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:38.52cd/klm
 Max.At90:2.242cd/klm
 Max.80-90:38.52cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	4137
90%	3723
80%	3310
70%	2896
60%	2482
50%	2069
40%	1655
30%	1241
20%	827
10%	414
5%	207

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-11-24

g Range: 0 - 150DEG
 g Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
 Humidity:56%
 Test Distance:10.580m [K=1.0000]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-11-24

g Range: 0 - 150DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity: 56%
Test Distance: 10.580m [K=1.0000]
Remarks:



SHYLON GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:220.16V I:0.4647A P:100.08W PF:0.9784 Freq:49.99Hz Lamp Flux:270.318x54 lm		
NAME: SL7502-100	TYPE:Road Light	SERIAL No.:2018112406
	SUR.:	

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	3522	3675	3731	3676	3511	3312	3223	3317	0- 10	333.2	333.2	2.28,2.28
20	3588	3817	3881	3821	3579	3269	3121	3297	10- 20	997.6	1331	9.12,9.12
30	3641	3939	3997	3944	3651	3397	3111	3456	20- 30	1664	2995	20.5,20.5
40	3694	4035	4122	4048	3721	3600	2964	3685	30- 40	2320	5315	36.4,36.4
50	3763	4061	3691	4123	3810	3615	2386	3660	40- 50	2864	8179	56.5,56
60	3779	3416	2523	3626	3840	2909	1733	2806	50- 60	3051	11230	76.9,76.9
70	2993	1272	183.1	1956	3422	816.8	570.3	530.9	60- 70	2367	13597	93.1,93.1
80	166.0	44.97	30.16	62.03	562.2	103.3	46.85	83.40	70- 80	746.2	14343	98.3,98.3
90	21.12	12.88	7.429	10.91	31.74	30.46	14.63	25.59	80- 90	42.76	14386	98.6,98.6
100	31.47	22.28	14.04	19.25	31.02	28.06	25.01	30.57	90-100	22.68	14409	98.7,98.7
110	39.08	31.96	22.46	28.38	39.38	36.29	35.29	39.31	100-110	31.45	14440	98.9,98.9
120	45.37	39.62	30.89	35.41	46.61	43.82	44.14	47.78	110-120	37.45	14478	99.2,99.2
130	51.38	46.63	39.15	40.70	53.41	50.65	52.20	55.09	120-130	40.30	14518	99.5,99.5
140	59.60	53.64	47.02	47.33	61.24	59.65	59.23	61.79	130-140	40.20	14558	99.7,99.7
150	66.98	61.17	55.28	56.16	67.96	68.16	67.50	68.33	140-150	37.45	14595	100,100
160	0	0	0	0	0	0	0	0	150-160	1.717	14597	100,100
170	0	0	0	0	0	0	0	0	160-170	0	14597	100,100
180	0	0	0	0	0	0	0	0	170-180	0	14597	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

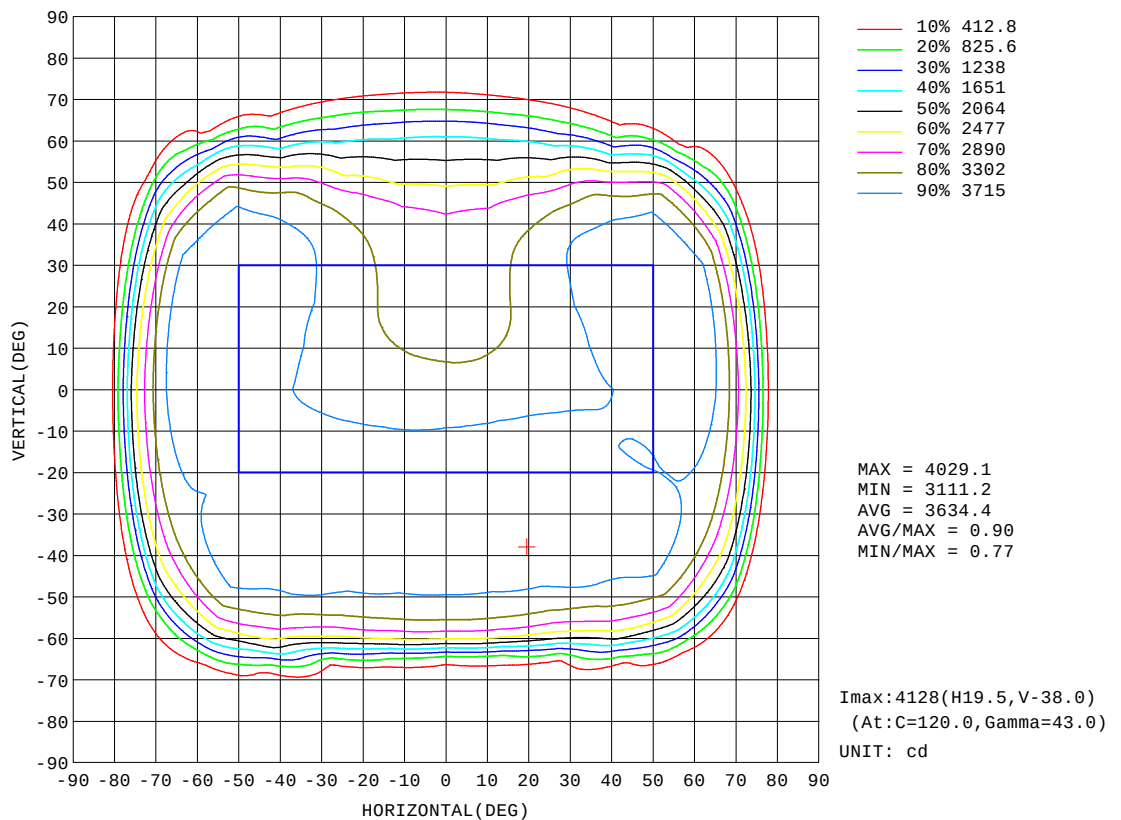
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-11-24

g Range: 0 - 150DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks:

SHYLON GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

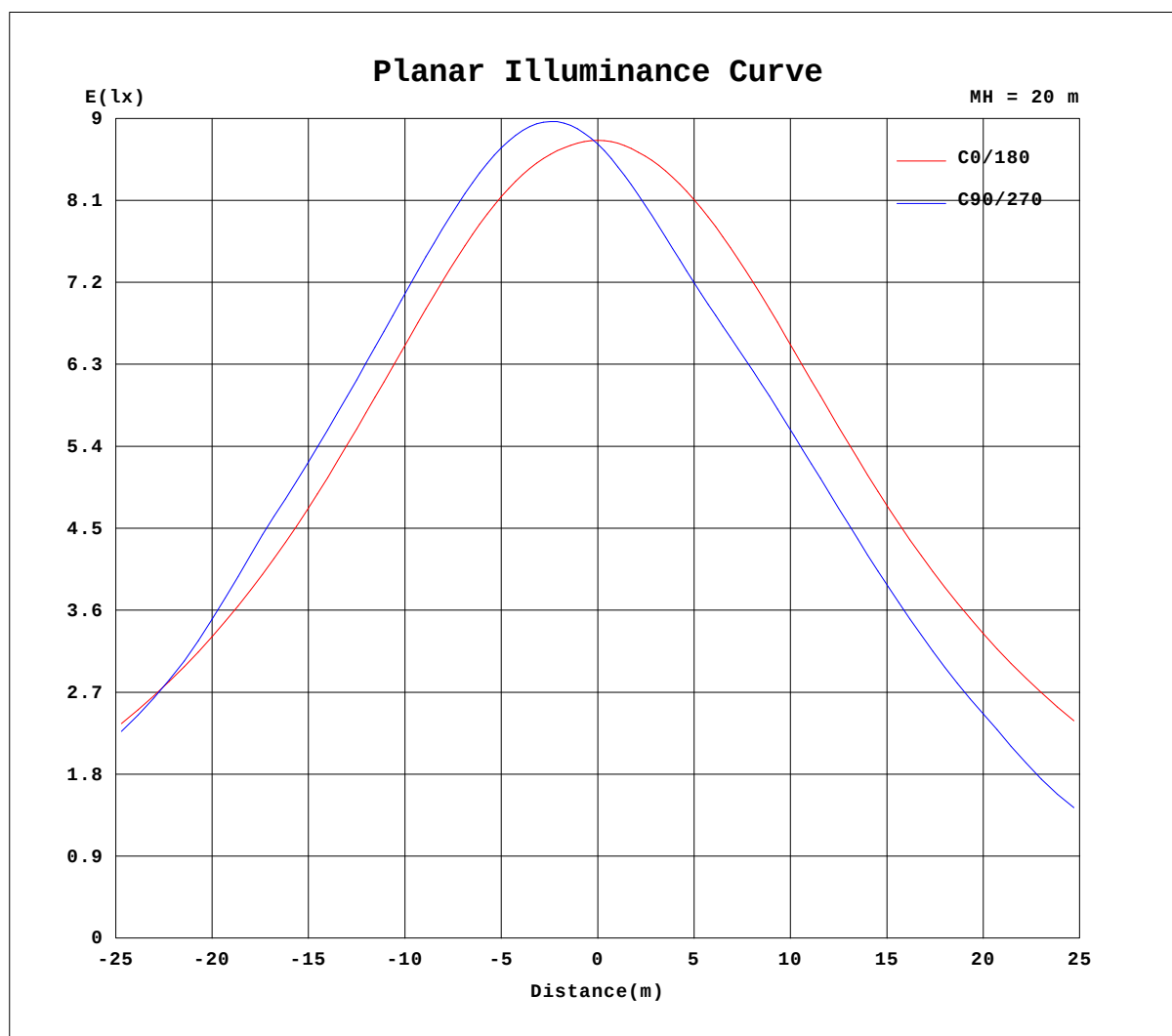
Test:U:220.16V I:0.4647A P:100.08W PF:0.9784 Freq:49.99Hz Lamp Flux:270.318x54 lm		
NAME: SL7502-100	TYPE:Road Light	SERIAL No.:2018112406
	SUR.:	



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-11-24

g Range: 0 - 150DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity: 56%
Test Distance: 10.580m [K=1.0000]
Remarks:

Planar Illuminance Curve



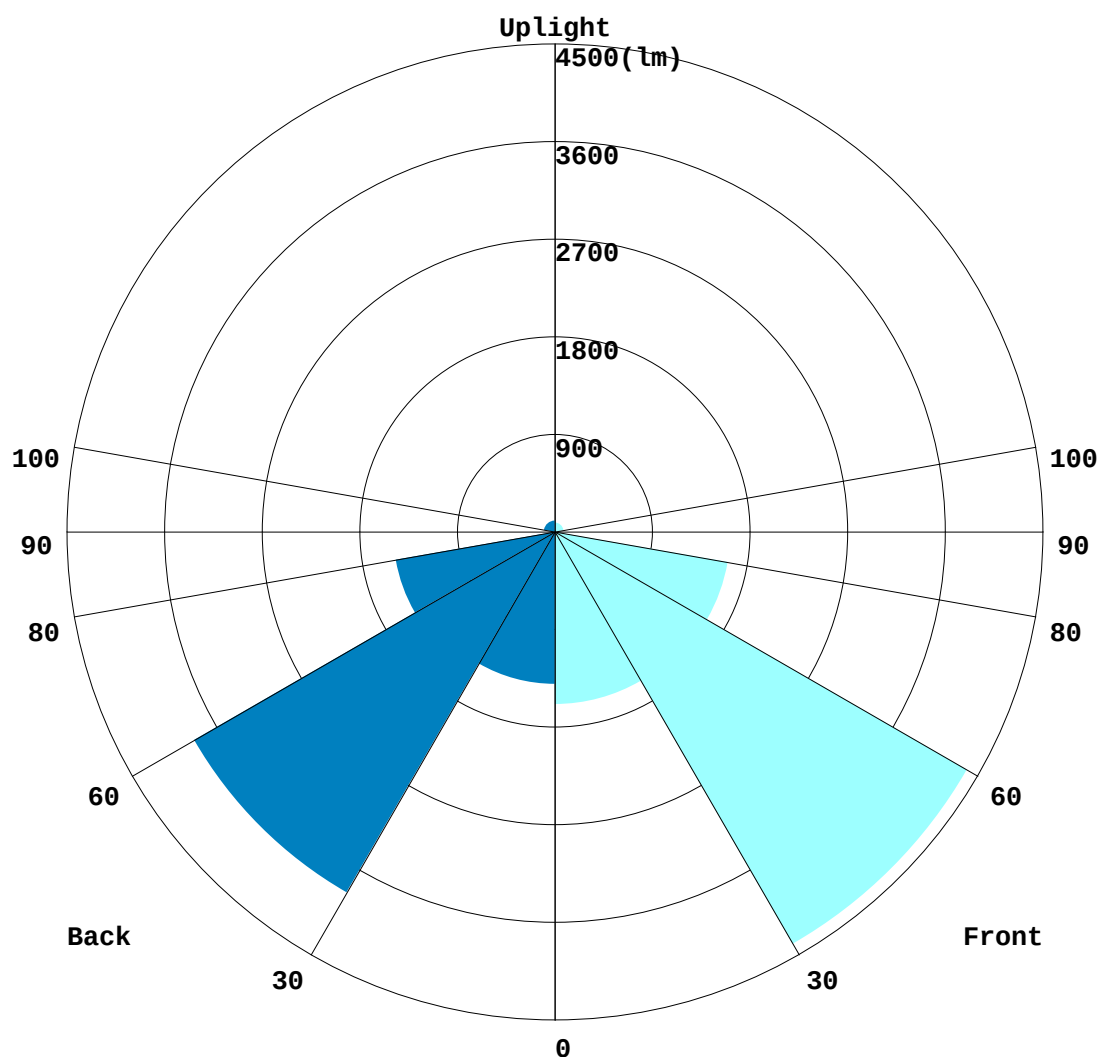
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-11-24

g Range: 0 - 150DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity: 56%
Test Distance: 10.580m [K=1.0000]
Remarks:

LCS REPORT

Test:U:220.16V I:0.4647A P:100.08W PF:0.9784 Freq:49.99Hz Lamp Flux:270.318x54 lm		
NAME: SL7502-100	TYPE:Road Light	SERIAL No.:2018112406
	SUR.:	

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-11-24

g Range: 0 - 150DEG
 g Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
 Humidity:56%
 Test Distance:10.580m [K=1.0000]
 Remarks:

BUG REPORT

Test:U:220.16V I:0.4647A P:100.08W PF:0.9784 Freq:49.99Hz Lamp Flux:270.318x54 lm		
NAME: SL7502-100	TYPE:Road Light	SERIAL No.:2018112406
	SUR.:	

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1590.8	10.9
FM - Front-Medium(30-60)	4392.3	30.1
FH - Front-High(60-80)	1622	11.1
FVH - Front-Very High(80-90)	15.579	0.1
Total Forward Light	7715	52.9

BL - Back-Low(0-30)	1404.2	9.6
BM - Back-Medium(30-60)	3842.3	26.3
BH - Back-High(60-80)	1491.6	10.2
BVH - Back-Very High(80-90)	27.178	0.2
Total Back Light	6882.2	47.1

UL - Uplight-Low(90-100)	22.68	0.2
UH - Uplight-High(100-180)	188.57	1.3
Total Up Light	211.25	1.4

BUG(Back,Up,Glare) Rating	B3-U3-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6765.2	116.97	6882.2
Street Side	7620.7	94.272	7715

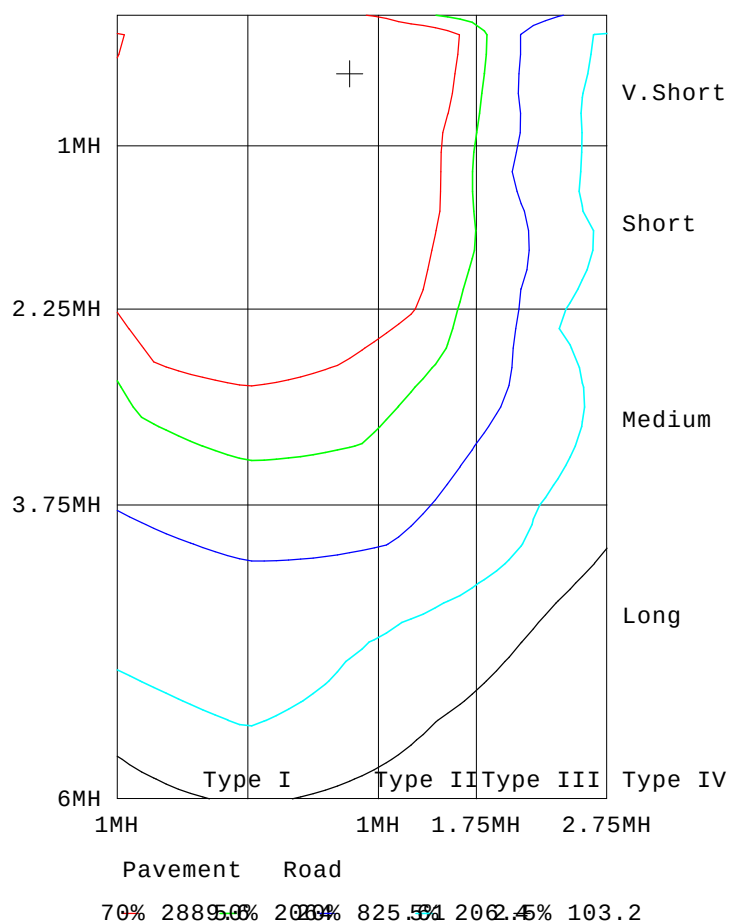
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-11-24

g Range: 0 - 150DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:220.16V I:0.4647A P:100.08W PF:0.9784 Freq:49.99Hz Lamp Flux:270.318x54 lm		
NAME: SL7502-100	TYPE:Road Light	SERIAL No.:2018112406
	SUR.:	

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-11-24

g Range: 0 - 150DEG
 g Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
 Humidity:56%
 Test Distance:10.580m [K=1.0000]
 Remarks:



SHYLON GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.16V I:0.4647A P:100.08W PF:0.9784 Freq:49.99Hz Lamp Flux:270.318x54 lm																	
NAME: SL7502-100									TYPE:Road Light						SERIAL No.:2018112406		
									SUR.:								

Table--1

UNIT: cd

C(DEG) g (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488
5	3494	3528	3559	3585	3604	3617	3621	3618	3607	3587	3561	3528	3491	3456	3422	3391	3367	3351	3347
10	3522	3582	3634	3675	3704	3724	3731	3726	3706	3676	3634	3579	3511	3444	3374	3312	3264	3234	3223
15	3556	3634	3701	3751	3783	3806	3816	3810	3788	3754	3702	3632	3542	3453	3354	3270	3199	3158	3143
20	3588	3680	3758	3817	3855	3875	3881	3877	3855	3821	3763	3682	3579	3480	3371	3269	3183	3136	3121
25	3613	3715	3808	3881	3922	3938	3937	3939	3922	3885	3820	3728	3616	3523	3419	3312	3207	3143	3123
30	3641	3735	3842	3939	3992	4002	3997	4005	3991	3944	3865	3760	3651	3590	3501	3397	3245	3143	3111
35	3665	3735	3858	3989	4058	4069	4063	4076	4063	3996	3895	3773	3683	3683	3632	3504	3275	3121	3062
40	3694	3715	3863	4035	4108	4119	4122	4129	4122	4048	3907	3764	3721	3800	3767	3600	3283	3045	2964
45	3728	3691	3873	4067	4101	3999	3964	4032	4133	4097	3917	3750	3767	3916	3882	3652	3205	2891	2788
50	3763	3683	3893	4061	3821	3697	3691	3726	3919	4123	3938	3744	3810	3992	3958	3615	3016	2523	2386
55	3788	3695	3918	3838	3466	3404	3364	3436	3565	4004	3967	3754	3843	4016	3967	3458	2527	2141	2078
60	3779	3686	3877	3416	2879	2647	2523	2729	3076	3626	3973	3747	3840	3975	3857	2909	2005	1766	1733
65	3707	3608	3529	2776	1487	772	614	982	1884	3090	3779	3703	3784	3869	3503	1925	1366	1237	1197
70	2993	2900	2585	1272	245	176	183	194	324	1956	3099	3338	3422	3411	2368	817	636	595	570
75	1458	1461	705	129	98.6	98.1	100.0	104	110	205	1473	2273	2374	1937	522	217	210	193	165
80	166	96.1	59.9	45.0	36.7	33.8	30.2	38.6	46.9	62.0	156	415	562	269	112	103	93.2	65.0	46.9
85	30.3	26.8	20.7	17.0	15.0	14.9	7.41	16.5	16.7	20.4	28.3	41.5	53.3	54.2	53.2	49.7	40.8	22.5	11.0
90	21.1	19.3	16.3	12.9	10.1	8.08	7.43	7.58	8.81	10.9	13.9	18.0	31.7	32.7	30.8	30.5	25.4	16.0	14.6
95	26.5	24.8	21.5	17.2	13.8	11.3	10.3	10.5	12.1	14.6	18.4	21.6	26.1	26.5	25.1	23.4	21.6	20.3	19.7
100	31.5	30.0	26.9	22.3	18.3	15.3	14.0	14.3	16.1	19.3	23.5	26.5	31.0	31.3	29.7	28.1	26.3	25.2	25.0
105	35.6	34.4	31.7	27.3	23.1	19.7	18.2	18.4	20.5	24.0	28.1	30.8	35.6	35.6	34.0	32.4	31.0	30.2	30.2
110	39.1	37.9	35.6	32.0	27.7	24.2	22.5	22.6	24.9	28.4	31.8	34.2	39.4	39.3	37.6	36.3	35.3	34.9	35.3
115	42.3	41.3	39.1	35.9	32.1	28.5	26.6	26.7	28.9	32.1	34.9	37.0	42.7	42.7	41.4	40.1	39.4	39.3	39.9
120	45.4	44.6	42.5	39.6	36.1	32.7	30.9	30.8	32.7	35.4	37.6	39.3	46.6	46.5	45.0	43.8	43.4	43.5	44.1
125	48.1	47.5	45.8	43.2	40.0	37.0	35.2	34.8	36.3	38.2	39.6	41.2	50.1	50.0	48.5	47.0	46.8	47.5	48.4
130	51.4	50.4	48.9	46.6	43.8	40.9	39.2	38.5	39.5	40.7	42.0	43.9	53.4	53.6	52.4	50.7	50.2	50.8	52.2
135	55.4	54.0	52.1	50.0	47.4	44.7	43.0	42.0	42.5	43.6	45.3	47.7	57.2	57.8	56.8	55.0	54.0	54.3	55.6
140	59.6	58.1	55.8	53.6	51.1	48.6	47.0	45.7	46.0	47.3	49.3	51.9	61.2	61.9	61.2	59.6	58.3	58.2	59.2
145	63.7	62.1	59.6	57.4	54.9	52.6	51.1	49.9	50.2	51.6	53.7	56.3	65.0	65.8	65.3	64.1	62.8	62.6	63.1
150	67.0	65.7	63.4	61.2	58.7	56.6	55.3	54.4	54.8	56.2	58.0	60.4	68.0	68.9	68.8	68.2	67.5	67.3	67.5
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:25.3DEG
Operators:
Test Date:2018-11-24

g Range: 0 - 150DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks:



SHYLON GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.16V I:0.4647A P:100.08W PF:0.9784 Freq:49.99Hz Lamp Flux:270.318x54 lm		
NAME: SL7502-100	TYPE:Road Light	SERIAL No.:2018112406
	SUR.:	

Table--2

UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	3488	3488	3488	3488	3488														
5	3352	3366	3389	3420	3456														
10	3234	3267	3317	3379	3451														
15	3161	3208	3282	3368	3465														
20	3146	3207	3297	3392	3492														
25	3156	3245	3355	3449	3535														
30	3157	3290	3456	3550	3612														
35	3133	3333	3580	3693	3717														
40	3049	3338	3685	3829	3837														
45	2887	3246	3730	3936	3945														
50	2512	3029	3660	4000	4016														
55	2147	2513	3464	3996	4021														
60	1762	1962	2806	3842	3973														
65	1188	1246	1652	3351	3821														
70	528	518	531	1798	2929														
75	178	175	161	167	1105														
80	59.7	79.8	83.4	82.8	86.1														
85	21.3	37.2	40.4	40.2	36.0														
90	16.6	23.1	25.6	23.7	23.7														
95	21.2	23.2	25.4	27.3	28.7														
100	26.6	28.4	30.6	32.4	33.6														
105	31.9	33.5	35.3	36.8	37.7														
110	36.8	38.0	39.3	40.6	41.3														
115	41.2	42.1	43.4	44.6	44.9														
120	45.5	46.3	47.8	48.6	48.2														
125	49.7	50.7	51.8	51.8	50.7														
130	53.6	54.5	55.1	54.9	53.9														
135	56.6	57.5	58.3	58.5	57.7														
140	59.9	60.9	61.8	62.1	61.6														
145	63.5	64.3	65.2	65.5	65.0														
150	67.4	67.7	68.3	68.2	67.3														
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:25.3DEG
Operators:
Test Date:2018-11-24

g Range: 0 - 150DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:56%
Test Distance:10.580m [K=1.0000]
Remarks: