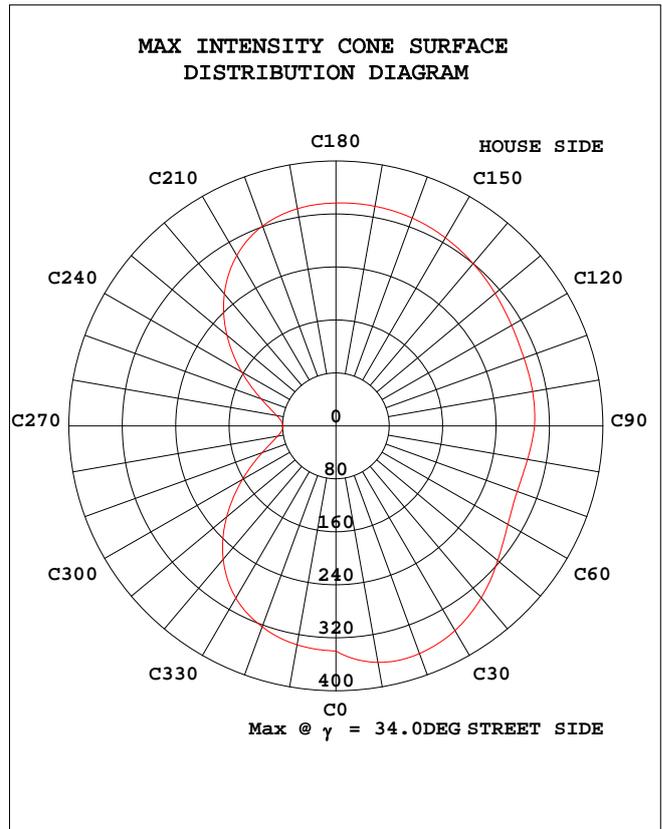
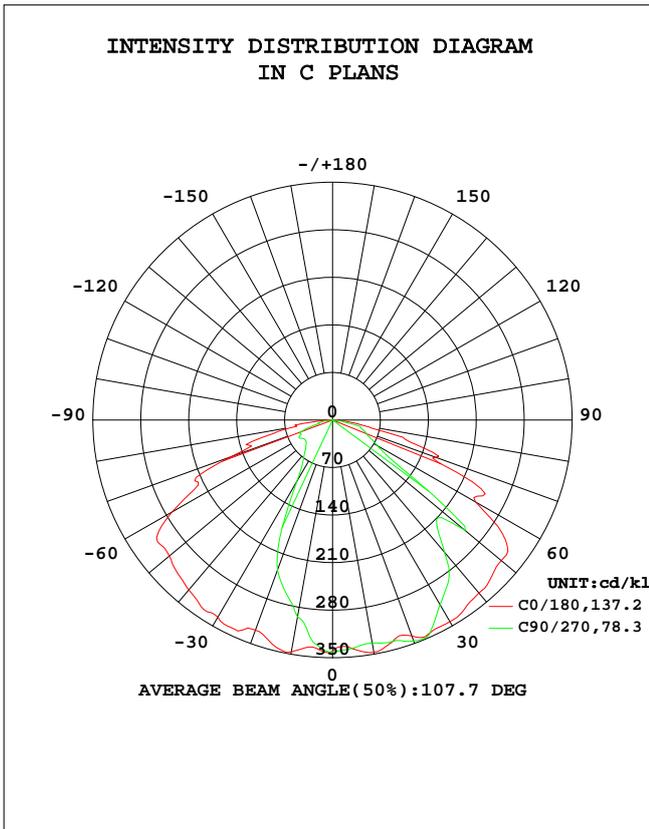




STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6110.39x1 lm		
NAME: LED	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		I _{max} (cd/klm)	364.4	η street_up(%)	0.0
NOMINAL POWER(W)		LOR(%)	100.0	η street_down(%)	54.0
RATED VOLTAGE(V)		TOTAL FLUX(lm/klm)	1000.0	η house_up(%)	0.1
NOMINAL FLUX(lm)	6110.39	MAXIMUM @(C,γ)	23,34.0	η house_down(%)	46.0
LAMPS INSIDE	1	η up(%)	0.1	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)		η down(%)	99.9	SLI	16.980

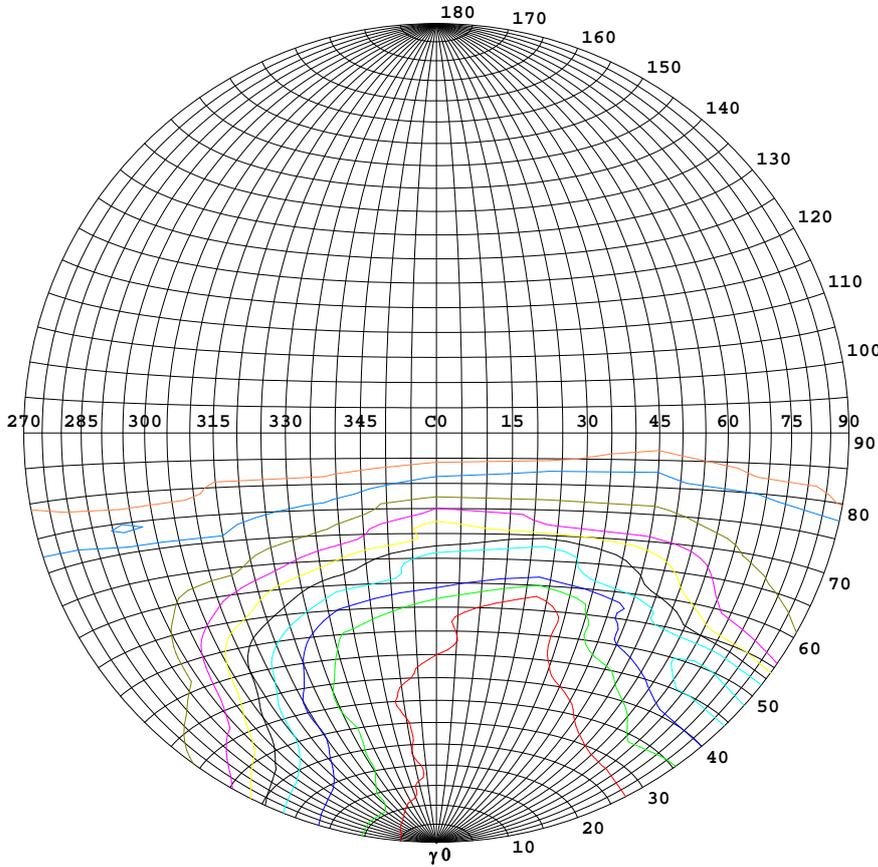


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Kai
 Test Date:2017-09-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4372]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6110.39x1 lm		
NAME: LED	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A



Classification:

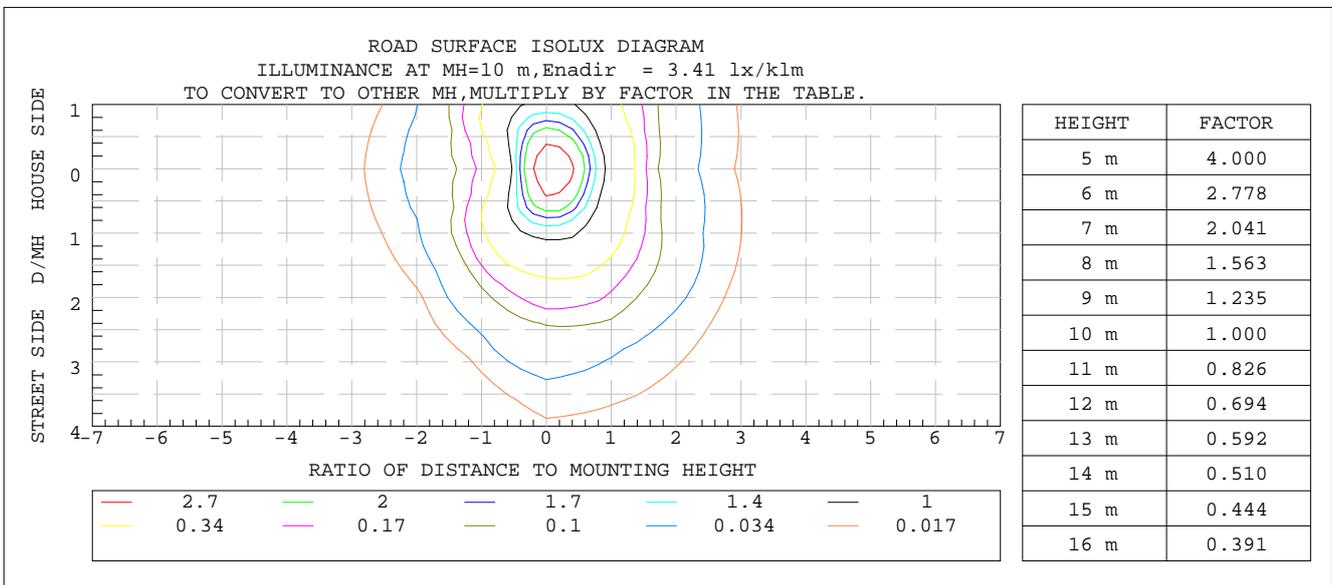
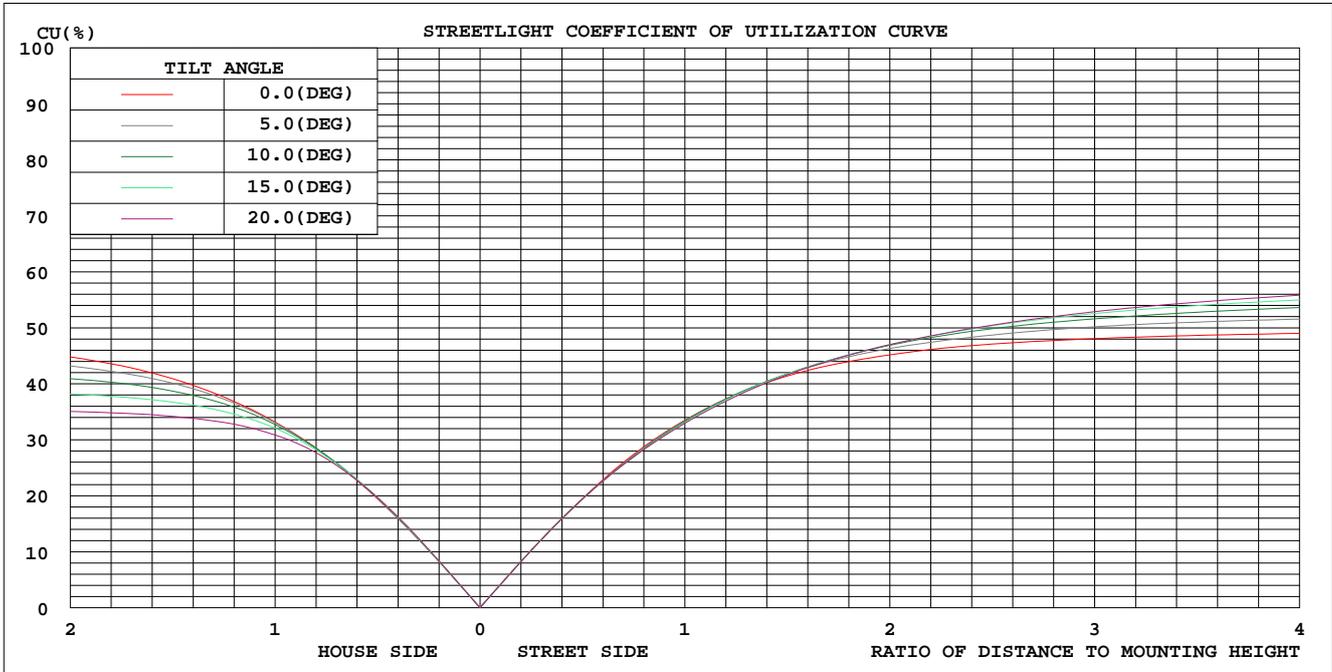
IES:Type III - Very Short
 CIE:Average - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:54.21cd/klm
 Max.At90:10.77cd/klm
 Max.80-90:55.61cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd/klm
Imax=100%	364
90%	328
80%	292
70%	255
60%	219
50%	182
40%	146
30%	109
20%	73
10%	36
5%	18

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Kai
 Test Date:2017-09-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4372]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Kai
Test Date: 2017-09-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.4372]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6110.39x1 lm		
NAME: LED	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

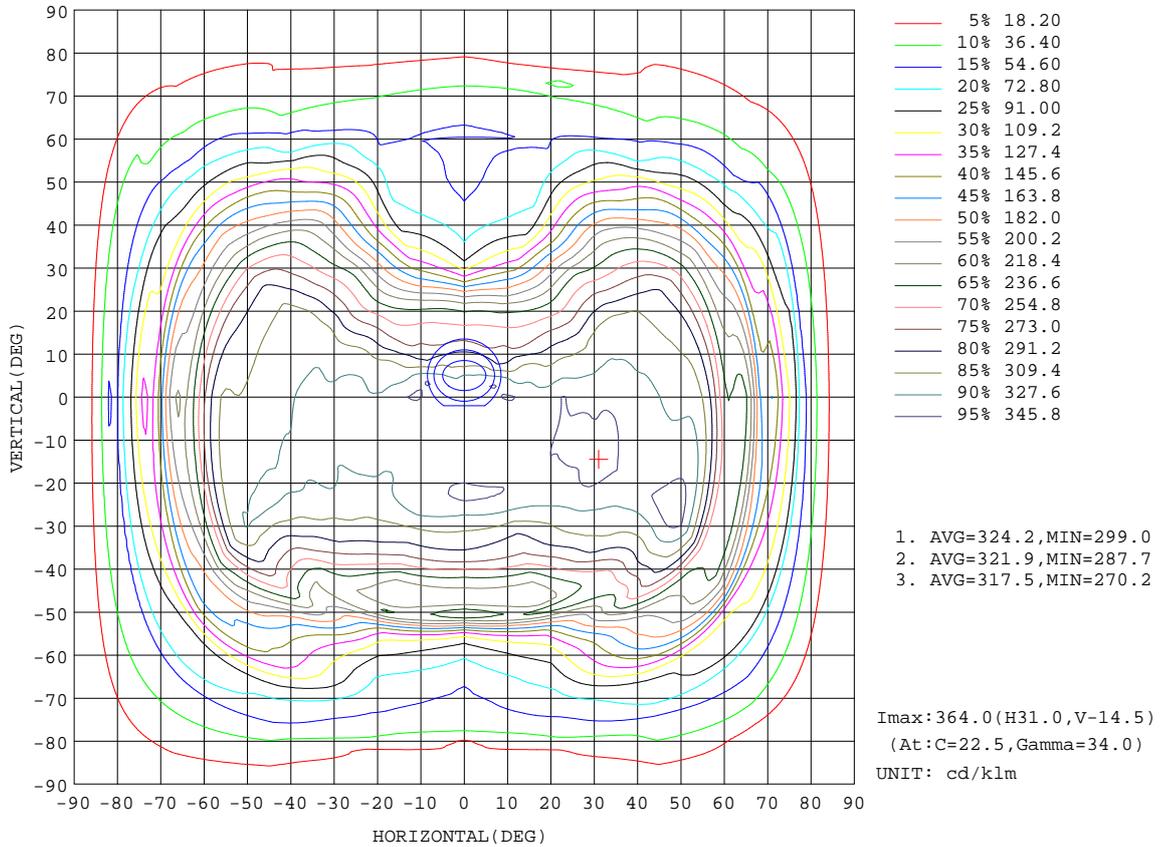
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum,lamp
10	347.2	343.2	333.4	341.0	346.6	307.4	294.6	297.2	0- 10	31.73	31.73	3.17,3.17
20	338.1	340.1	345.9	334.2	329.4	260.3	235.1	260.9	10- 20	89.19	120.9	12.1,12.1
30	342.8	337.6	314.1	322.4	335.0	239.1	104.5	239.4	20- 30	137.0	257.9	25.8,25.8
40	332.6	315.7	254.6	302.9	326.6	228.7	63.89	225.2	30- 40	168.7	426.6	42.7,42.7
50	321.8	255.4	252.8	233.8	311.4	202.6	50.45	192.0	40- 50	184.6	611.1	61.1,61.1
60	241.0	211.5	75.50	191.1	270.8	124.5	53.97	113.7	50- 60	180.7	791.8	79.2,79.2
70	160.3	122.6	50.38	129.5	156.9	46.87	46.78	40.31	60- 70	126.6	918.5	91.8,91.8
80	44.66	43.76	16.79	53.02	53.00	18.16	15.59	18.81	70- 80	64.11	982.6	98.3,98.3
90	3.397	5.522	0.0089	8.430	7.819	2.103	0	0.8582	80- 90	16.61	999.2	99.9,99.9
100	0	0	0	0	0.1148	0	0	0	90-100	0.5457	999.7	100,100
110	0	0	0	0	0.1723	0.1740	0	0.1721	100-110	0.0430	999.8	100,100
120	0	0	0	0	0.1723	0.1740	0	0.1721	110-120	0.0465	999.8	100,100
130	0	0	0	0	0.1723	0.1740	0	0.1721	120-130	0.0498	999.9	100,100
140	0	0	0	0	0.1723	0.1740	0	0.1721	130-140	0.0446	999.9	100,100
150	0	0	0	0	0.1723	0.1160	0.0574	0.1147	140-150	0.0337	1000.0	100,100
160	0.1148	0	0	0	0.1723	0.1160	0.0574	0.1147	150-160	0.0250	1000.0	100,100
170	0.1148	0	0	0	0.1148	0.1150	0.0574	0.1147	160-170	0.0161	1000.0	100,100
180	0.1148	0.1160	0	0.0574	0.0574	0.0580	0	0.0574	170-180	0.0054	1000.0	100,100
DEG	LUMINOUS INTENSITY:cd/klm									UNIT:lm/klm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Kai
 Test Date:2017-09-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4372]
 Remarks:

ISOCANDELA DIAGRAM

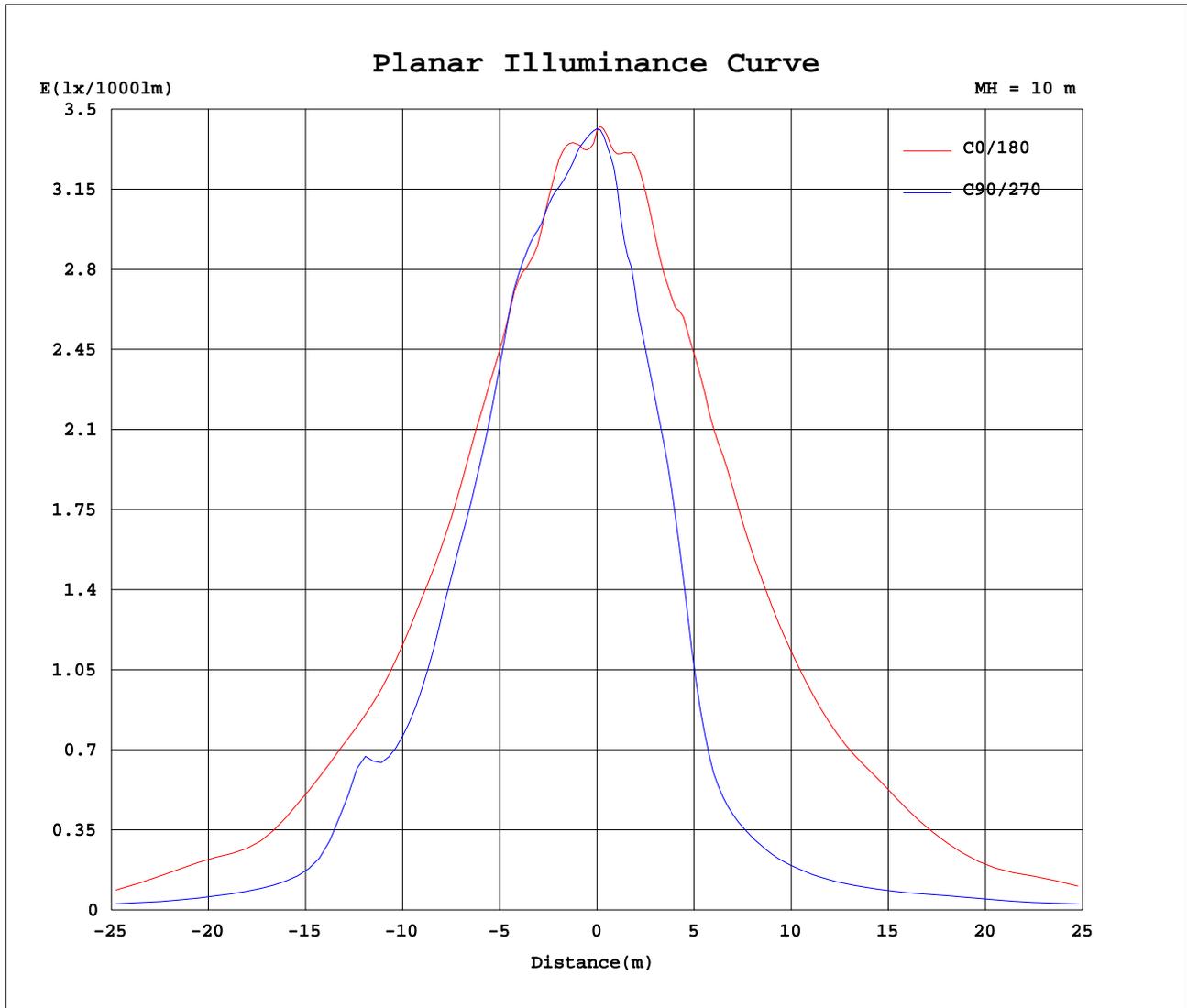
Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6110.39x1 lm		
NAME: LED	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Kai
 Test Date: 2017-09-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.4372]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: Kai
 Test Date: 2017-09-29

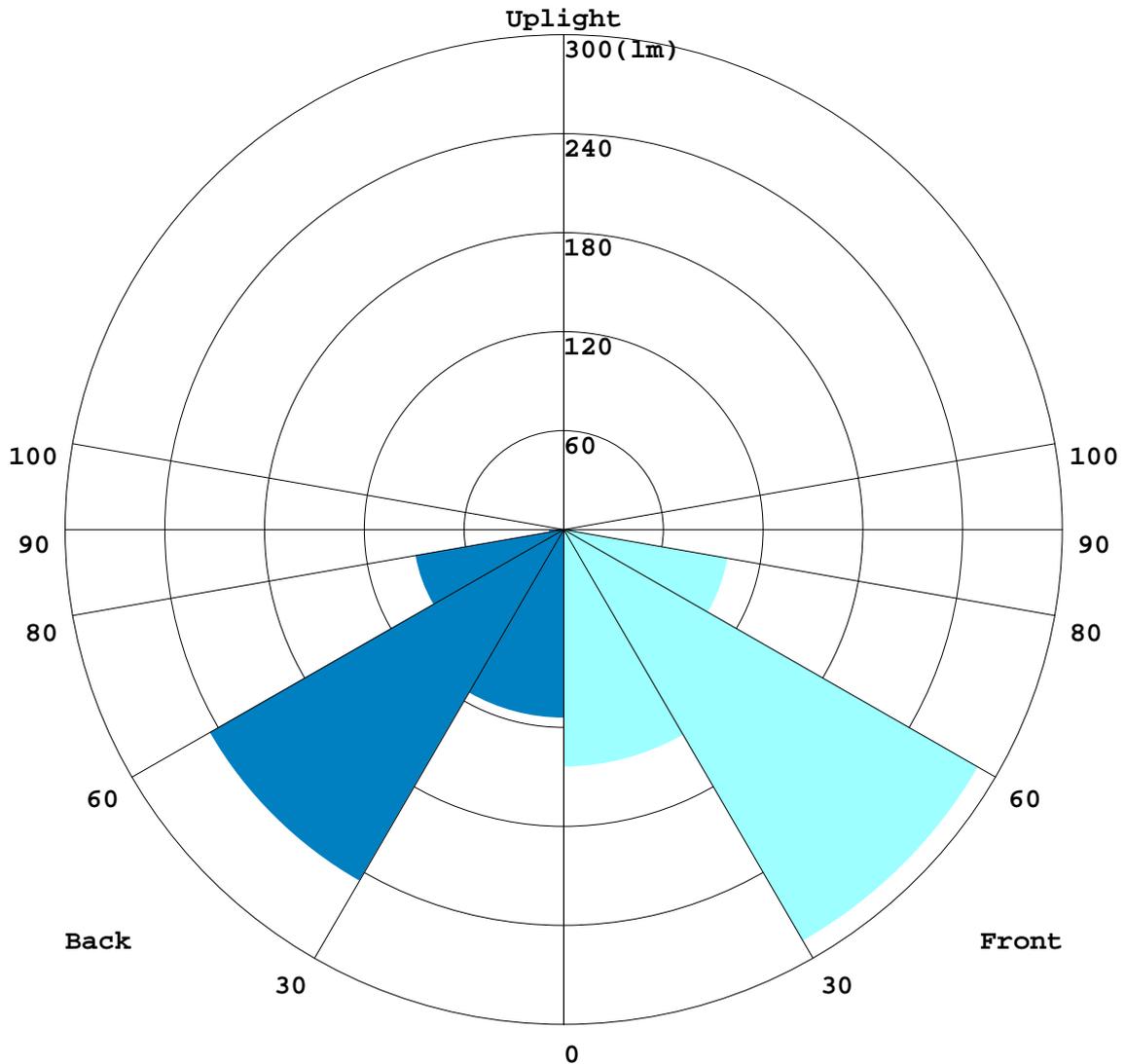
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.4372]
 Remarks:



LCS REPORT

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6110.39x1 lm		
NAME: LED	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Kai
 Test Date:2017-09-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4372]
 Remarks:

BUG REPORT

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6110.39x1 lm		
NAME: LED	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	143.73	14.4
FM - Front-Medium(30-60)	287.98	28.8
FH - Front-High(60-80)	100.2	10.0
FVH - Front-Very High(80-90)	7.7341	0.8
Total Forward Light	539.89	54.0

BL - Back-Low(0-30)	114.17	11.4
BM - Back-Medium(30-60)	245.95	24.6
BH - Back-High(60-80)	90.55	9.1
BVH - Back-Very High(80-90)	8.8765	0.9
Total Back Light	460.11	46.0

UL - Uplight-Low(90-100)	0.54566	0.1
UH - Uplight-High(100-180)	0.26428	0.0
Total Up Light	0.80994	0.1

BUG(Back,Up,Glare) Rating	B1-U1-G0
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	459.55	0.56269	460.11
Street Side	539.64	0.24725	539.89

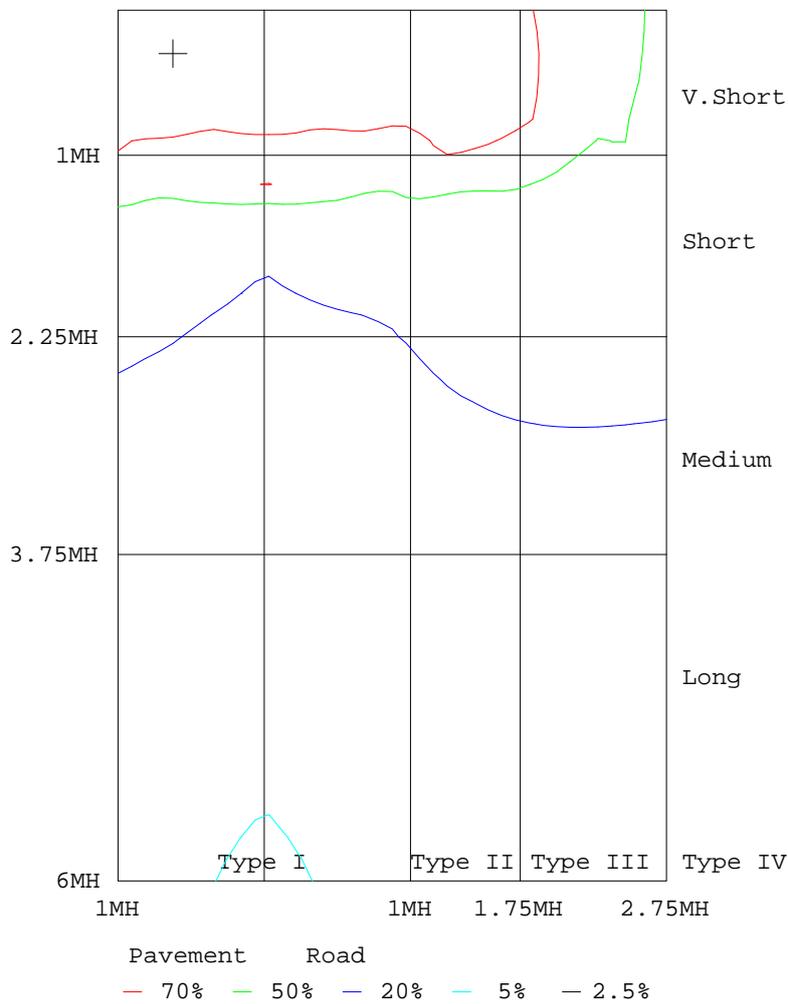
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Kai
 Test Date:2017-09-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4372]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6110.39x1 lm		
NAME: LED	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Kai
 Test Date:2017-09-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4372]
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:6110.39x1 lm		
NAME: LED	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:	SUR.:	Shielding Angle:N/A

Table--1

UNIT: cd/klm

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	341	341	341	341	341	341	341	341	341	341	341	341	341	341	341	341			
5	338	332	334	336	337	336	337	334	336	337	333	326	328	330	335	342			
10	347	340	343	344	333	335	341	334	347	345	307	296	295	296	297	336			
15	338	340	339	345	338	340	340	335	341	316	279	264	264	263	278	320			
20	338	342	340	342	346	344	334	338	329	314	260	250	235	244	261	306			
25	343	349	339	343	341	341	325	341	340	314	252	210	174	202	253	306			
30	343	350	338	315	314	324	322	333	335	309	239	160	105	158	239	306			
35	338	364	326	285	294	296	313	337	335	318	238	122	76.0	121	239	320			
40	333	344	316	263	255	264	303	330	327	321	229	94.7	63.9	90.6	225	318			
45	328	340	298	220	215	216	280	331	320	313	214	77.4	55.1	75.6	213	307			
50	322	351	255	205	253	204	234	333	311	299	203	71.1	50.5	70.0	192	293			
55	309	355	240	174	121	170	217	329	312	266	166	68.1	49.7	64.3	148	257			
60	241	292	211	107	75.5	101	191	305	271	215	124	55.2	54.0	54.3	114	205			
65	239	242	175	86.9	59.8	78.5	146	220	216	166	75.3	47.7	50.8	44.3	62.0	140			
70	160	162	123	71.6	50.4	65.3	129	173	157	103	46.9	40.5	46.8	40.8	40.3	81.5			
75	110	103	80.2	57.2	42.4	53.6	77.4	82.8	122	55.7	30.3	36.0	20.5	36.1	28.7	42.7			
80	44.7	53.6	43.8	36.3	16.8	36.3	53.0	54.2	53.0	26.8	18.2	13.1	15.6	13.2	18.8	22.3			
85	13.7	16.1	24.6	11.0	3.99	11.2	28.7	31.2	23.0	11.2	8.46	7.51	0.00	7.59	4.41	5.84			
90	3.40	4.90	5.52	0.88	0.01	1.28	8.43	10.8	7.82	3.54	2.10	1.01	0.00	0.11	0.86	1.81			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.12			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.17	0.00	0.00	0.00	0.06	0.17	0.12		
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.17	0.00	0.00	0.00	0.17	0.12			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.17	0.00	0.00	0.00	0.17	0.12			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.17	0.00	0.00	0.00	0.17	0.12			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.17	0.06	0.00	0.12	0.17	0.12			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.17	0.11	0.00	0.06	0.17	0.12			
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.17	0.11	0.00	0.06	0.17	0.12			
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.17	0.11	0.00	0.06	0.17	0.12			
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.12	0.11	0.06	0.00	0.11	0.12			
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.12	0.11	0.06	0.00	0.11	0.06			
155	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.12	0.11	0.06	0.00	0.11	0.06			
160	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.12	0.11	0.06	0.00	0.11	0.06			
165	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.12	0.11	0.06	0.00	0.11	0.06			
170	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.12	0.12	0.11	0.06	0.00	0.11	0.06			
175	0.11	0.06	0.11	0.00	0.00	0.00	0.06	0.00	0.06	0.12	0.06	0.11	0.00	0.00	0.11	0.06			
180	0.11	0.06	0.12	0.00	0.00	0.12	0.06	0.12	0.06	0.12	0.06	0.11	0.00	0.00	0.06	0.06			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:Kai
 Test Date:2017-09-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
 Humidity:65.7%
 Test Distance:26.000m [K=1.4372]
 Remarks: