



DLC V4.2 TEST REPORT

Applicant's name	Shanghai Supertek Lighting Co., Ltd.
Address	No.455,laodongRoad,caowang industrial Zone, Jiading District,shanghai
Brand Name.....	SUPERTEK
Report No.....	BTR66.181.17.0007.14
Product Name	Outdoor Pole/Arm-mounted Decorative Luminaires
Model	CL03C-60-40k-lv-01 ; CL03C-60-50k-lv-01
Tested by (printed name and signature)	David Zhang
Title	Test Engineer
Approved by (printed name and signature)	Steven Huo
Title	Approved Signatory
Date of issue	Oct 26, 2017
Testing Laboratory Name	BEST Test Service Shenzhen Co., Ltd.
Address	1 st Floor, 1 st Building, Weitai Industrial Park, Yingrenshi, Shiyao, Baoan, Shenzhen, China TEL: + 86-755-28236006; FAX: + 86-755-23467087 Email: certification@bestcert.cn
Accreditation	DLC/Lighting Facts/UL/ETL/ELI/CEC/EPA/DOE NVLAP Testing Lab Code: 200770-0
Test specification	
Standard	DLC V4.2
Test procedure	DLC Test Procedure
Non-standard test method	No
Test Report Form No.	BEST_DLC-V4.2
TRF originator.....	BEST Test Service Shenzhen Co., Ltd. Mr Tseng
Master TRF	BEST_DLC V4.2.doc

Note:

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Product description:		
Sample received date	Sept 25, 2017 to Oct 26, 2017	
Sample Quantity	1 pcs per model	
Model Number	CL03C-60-40k-lv-01; CL03C-60-50k-lv-01	
Rating(s) (V; Hz)	120V-277VAC	
Nominal Power.....	60W	
Nominal Power Factor	N/A	
Nominal Lumen Output.....	6540 lm; 6720 lm	
Nominal CCT	4000K; 5000K	
Nominal CRI(Ra)	70	
Nominal Life	50000H	
Product Classification	<input type="checkbox"/> Premium	<input checked="" type="checkbox"/> Standard
Category	<input type="checkbox"/> Indoor	<input type="checkbox"/> Indoor Retrofit Kit
	<input checked="" type="checkbox"/> Outdoor	<input type="checkbox"/> Outdoor Retrofit Kit
	<input type="checkbox"/> Linear Replacement Lamp	<input type="checkbox"/> E39 Replacements for HID Lamps
	<input type="checkbox"/> Four Pin-Base Replacement Lamps for CFLs	
General Applicant	Outdoor –Mid Output	
Primary use.....	Outdoor Pole/Arm-mounted Decorative Luminaires	
Dimmable	<input checked="" type="checkbox"/> Yes,	<input type="checkbox"/> No
If Yes, Select Dimming Mechanism	<input checked="" type="checkbox"/> Continuous dimming,	<input type="checkbox"/> Step dimming
If Yes, Mini Dimming Level	10%	
Integral Controller	<input checked="" type="checkbox"/> Yes,	<input type="checkbox"/> No
LED Lighting Source Manufacture	Seoul Semiconductor CO.,Ltd	
LED Lighting Source Model	SAWxL60A-xx	
LED Driver Brand.....	N/A	
LED Driver Model Number.....	N/A	
Maximum Recommended Temperature (°C) During Normal Operation	N/A	
Fixtures Band (Retrofit Kit/Lamp Only)	N/A	
Fixtures Model No. (Retrofit Kit/Lamp Only)	N/A	

Test Method Description

ANSI C78.376-2001 Specifications for the Chromaticity of Fluorescent Lamps
 ANSI C78.377-2015 Specifications for the Chromaticity of Solid State Lighting Products
 ANSI/NEMA/ANSI/ANSI C78.377-2011 Specifications for the Chromaticity of Solid State Lighting Products
 ANSI C78.5-2003 Specifications for Performance of Self-ballasted Compact Fluorescent Lamps
 ANSI/ANSI/ANSI C78.81-2010 Double-Capped Fluorescent Lamps—Dimensional and Electrical Characteristics
 ANSI C78.901-2014 Single-Based Fluorescent Lamps—Dimensional and Electrical Characteristics
 ANSI/ANSI/ANSI C81.61-2009 Specifications for Bases (Caps) for Electric Lamps
 ANSI/ANSI/ANSI C81.62-2009 Lamp holders for Electric Lamps
 ANSI C82.11-2011 High-Frequency Fluorescent Lamp Ballasts
 ANSI/ANSI/ANSI C82.16-2015 (anticipated) Light Emitting Diode Drivers—Methods of Measurement
 ANSI C82.2-2002 Method of Measurement of Fluorescent Lamp Ballasts
 ANSI C82.77-10:2014 Harmonic Emission Limits—Related Power Quality Requirements for Lighting Equipment
 ANSI/IEEE C62.41.1-2002 IEEE Guide on the Surge Environment in Low-Voltage (1000 V and Less) AC Power Circuits
 ANSI/IEEE C62.41.2-2002 IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits
 ANSI/UL 153-2002 Standard for Safety of Portable Electric Luminaires
 ANSI/UL 935-2009 Standard for Safety of Fluorescent-Lamp Ballasts
 ANSI/UL 1310-2010 Standard for Safety of Class 2 Power Units
 ANSI/UL 1574-2004 Standard for Safety of Track Lighting Systems
 ANSI/UL 1598-2008 Standard for Safety of Luminaires
 ANSI/UL 1598C Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits
 ANSI/UL 1598B-2010 Standard for Supplemental Requirements for Luminaire Reflector Kits for Installation on Previously Installed Fluorescent Luminaires
 ANSI/UL 1993-2009 Standard for Safety of Self-Ballasted Lamps and Lamp Adapters
 ANSI/UL 2108-2004 Standard for Low-Voltage Lighting Systems
 ANSI/UL 8750-2009 Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
 ASTM E283-04 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
 CIE Pub. No. 13.3-1995 Method of Measuring and Specifying Color Rendering of Light Sources
 CIE Pub. No. 15:2004 Colorimetry
 EU Directive 2002/95/EC Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the Restriction of the Use of Certain Hazardous Substances In Electrical and Electronic Equipment
 FCC CFR Title 47 Part 15 Radio Frequency Devices
 FCC CFR Title 47 Part 18 Industrial, Scientific, and Medical Equipment
 IEC 60061-1 (2012) Lamp Caps and Holders Together with Gauges for the Control of Interchangeability and Safety – Part 1: Lamp Caps
 IEC 60081 Amend 4 Ed 5.0 (2010) Double-capped Fluorescent Lamps - Performance Specifications
 IEC 60901 (2011) Single-capped Fluorescent Lamps - Performance Specifications
 IEC 62301 ED.2.0 B:2011 Household electrical appliances - Measurement of standby power
 IEC 61347-2-3-am2 ed1.0 b.2011 Amendment 2 - Lamp Control Gear - Part 2-3: Particular Requirements for A.C. Supplied Electronic Ballasts for Fluorescent Lamps
 IEC 62321 Ed. 1.0 Electrotechnical Products - Determination Of Levels Of Six Regulated Substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)
 IEEE PAR1789 IEEE Recommending Practices for Modulating Current in High Brightness LEDs for Mitigating Health Risks to Viewers
 IES LM-9-09 Electric and Photometric Measurements of Fluorescent Lamps
 IES LM-10-96 or LM-10-XX Photometric Testing of Outdoor Fluorescent Luminaires (2015 update anticipated)
 IES LM-31-95 Photometric Testing of Roadway Luminaires Using Incandescent Filament and High Intensity Discharge (HID) Lamps
 IES LM-40-10 Life Testing of Fluorescent Lamps
 IES LM-41-14 Approved Method for Photometric Testing of Indoor Fluorescent Luminaires
 IES LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or Incandescent Filament Lamps
 IES LM-49-12 Life Testing of Incandescent Filament Lamps
 IES LM-58-13 Method for Spectroradiometric Measurement Methods for Light Sources
 IES LM-65-14 Life Testing of Compact Fluorescent Lamps
 IES LM-66-14 Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps
 IES LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products
 IES LM-80-08 Measuring Lumen Maintenance of LED Light Sources
 IES LM-82-12 Method for the Characterization of LED Light Engines and Integrated LED Lamps for Electrical and Photometric Properties as a Function of Temperature
 IES LM-84-14 Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires
 IES RP-16-10 Nomenclature and Definitions for Illuminating Engineering
 IES TM-21-11 Projecting Long Term Lumen Maintenance of LED Sources
 IES TM-28-14 Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaires
 NEMA LL 9-2009 Dimming of T8 Fluorescent Lighting Systems
 NEMA LSD 45-2009 Recommendations for Solid State Lighting Sub-Assembly Interfaces for Luminaires
 NEMA SSL 7A-2013 Phase Cut Dimming for Solid State Lighting: Basic Compatibility

Initial Photometric and Electrical Test Data

EUT	Input Voltage (V)	Frequency (Hz)	Input Current (A)	ITHD	Input Power (W)	Power Factor	Lumen Output (Lumens)	Efficiency Lumen/w
CL03C-60-40k-lv-01	120.0	60.0	0.535	8.8%	63.68	0.991	6996.48	109.87
CL03C-60-40k-lv-01	277.0	60.0	0.239	13.6%	62.89	0.948	/	/
CL03C-60-50k-lv-01	120.0	60.0	0.494	9.1%	58.75	0.991	/	/
CL03C-60-50k-lv-01	277.0	60.0	0.226	14.4%	58.81	0.941	/	/

EUT	CCT (K)	CRI Ra	R9	x CIE1931	y CIE1931
CL03C-60-40k-lv-01	4241	75.2	-9	0.3690	0.3640
CL03C-60-50k-lv-01	5274	74.4	-14	0.3378	0.3463

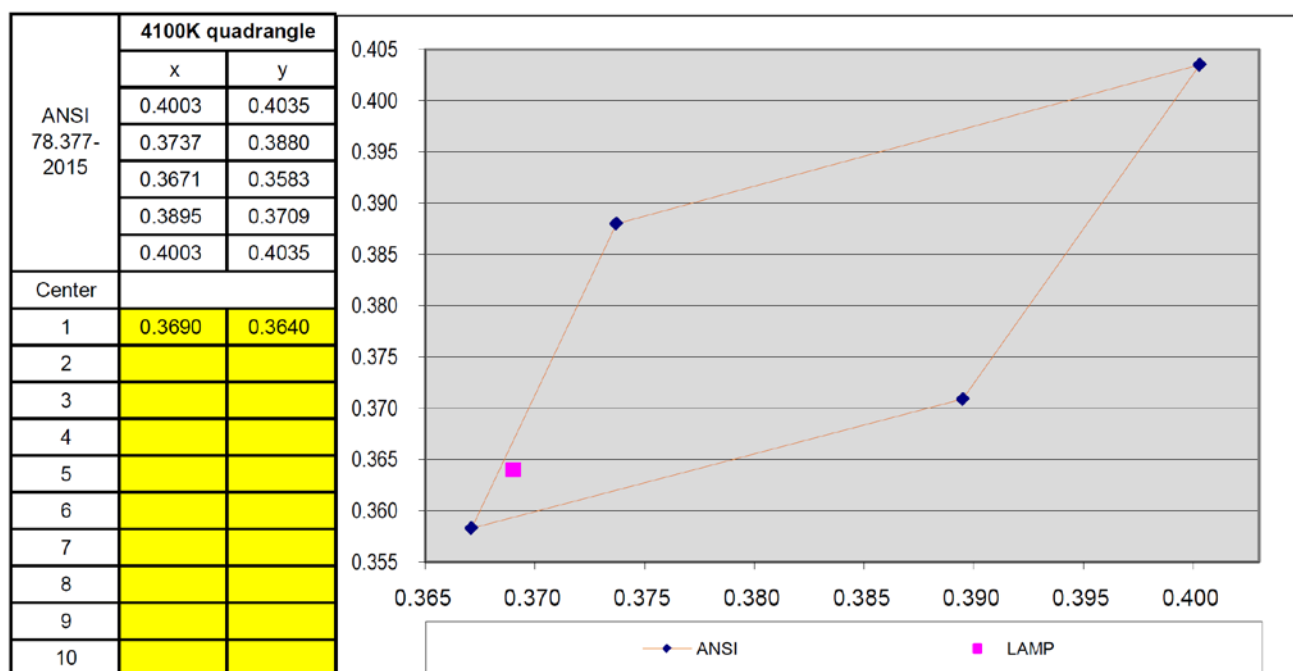
EUT	u' CIE1976	v' CIE1976	Duv	Rf	Rg
CL03C-60-40k-lv-01	0.2226	0.4941	-0.0026	73	95
CL03C-60-50k-lv-01	0.2086	0.4810	0.0003	72	95

EUT	Zonal Lumen Density zone (0-90°)
CL03C-60-40k-lv-01	84.3%

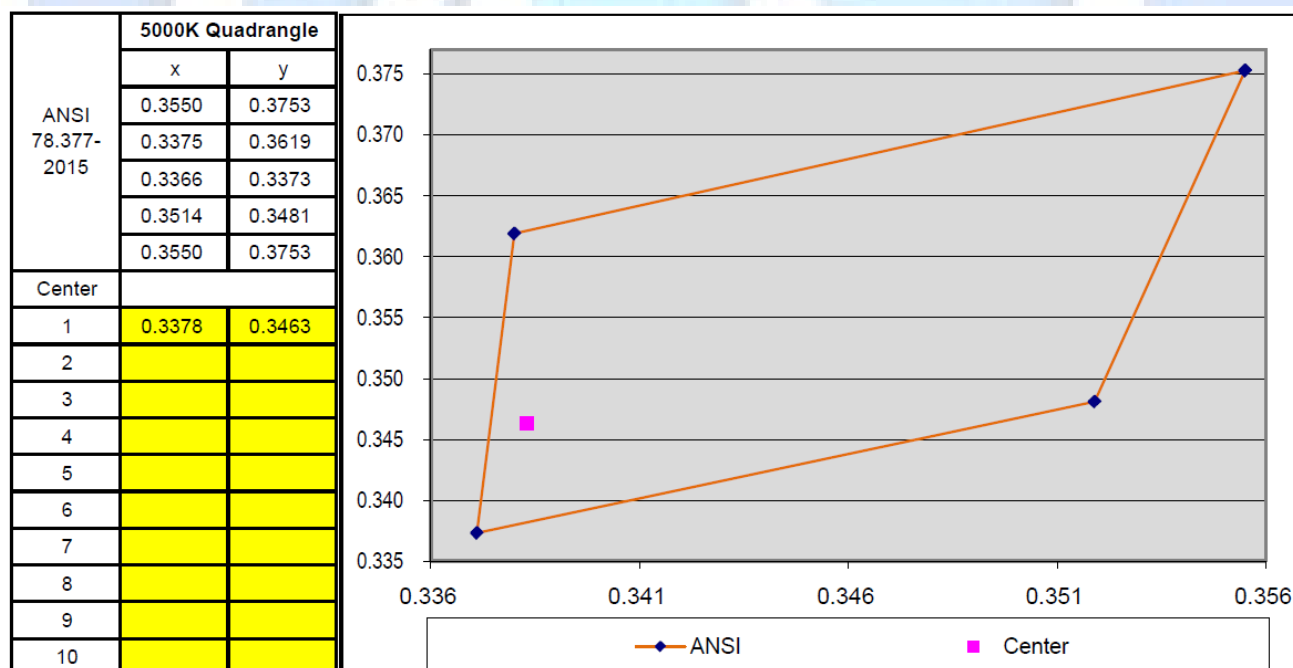
Note:
See the annex of Luminous Intensity Distribution Test Plots

7 Step Quadrangle

CL03C-60-40k-lv-01



CL03C-60-50k-lv-01



Spectral Energy Distribution

CL03C-60-40k-lv-01

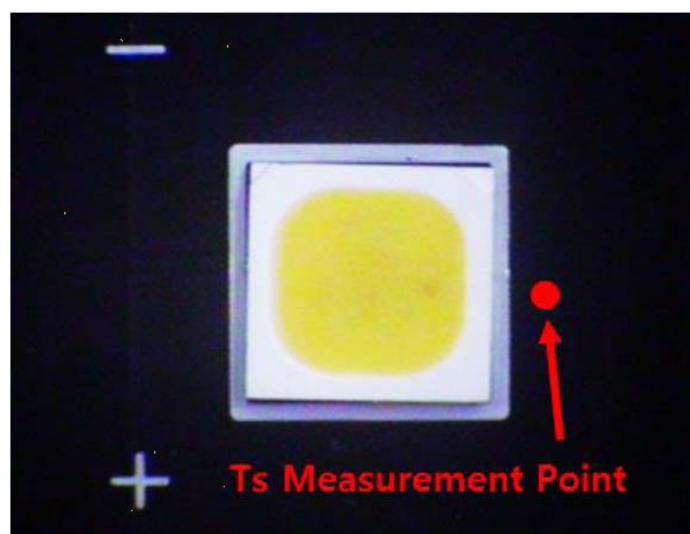
WL(nm)	Spectrum	Spectrum	WL(nm)	Spectrum	Spectrum
380	0.0181	1.5120	585	0.6660	55.6200
385	0.0127	1.0600	590	0.6628	55.3500
390	0.0086	0.7194	595	0.6532	54.5400
395	0.0067	0.5577	600	0.6371	53.2000
400	0.0057	0.4774	605	0.6180	51.6100
405	0.0070	0.5818	610	0.5925	49.4800
410	0.0109	0.9067	615	0.5622	46.9500
415	0.0218	1.8200	620	0.5285	44.1300
420	0.0453	3.7800	625	0.4914	41.0400
425	0.0887	7.4030	630	0.4549	37.9900
430	0.1643	13.7200	635	0.4165	34.7800
435	0.2783	23.2400	640	0.3795	31.6900
440	0.4290	35.8300	645	0.3440	28.7300
445	0.6759	56.4400	650	0.3098	25.8700
450	0.9720	81.1700	655	0.2773	23.1600
455	0.8633	72.0900	660	0.2477	20.6900
460	0.4943	41.2800	665	0.2191	18.2900
465	0.3332	27.8300	670	0.1931	16.1300
470	0.2387	19.9300	675	0.1703	14.2200
475	0.1527	12.7500	680	0.1482	12.3800
480	0.1130	9.4330	685	0.1304	10.8900
485	0.1023	8.5460	690	0.1137	9.4950
490	0.1041	8.6930	695	0.0990	8.2690
495	0.1256	10.4900	700	0.0860	7.1820
500	0.1705	14.2300	705	0.0741	6.1880
505	0.2317	19.3500	710	0.0643	5.3690
510	0.3001	25.0600	715	0.0562	4.6970
515	0.3686	30.7800	720	0.0491	4.0970
520	0.4286	35.7900	725	0.0430	3.5910
525	0.4768	39.8100	730	0.0372	3.1070
530	0.5145	42.9600	735	0.0319	2.6640
535	0.5411	45.1900	740	0.0281	2.3490
540	0.5622	46.9500	745	0.0243	2.0330
545	0.5809	48.5100	750	0.0211	1.7610
550	0.5959	49.7600	755	0.0185	1.5450
555	0.6113	51.0400	760	0.0166	1.3880
560	0.6265	52.3200	765	0.0145	1.2090
565	0.6399	53.4400	770	0.0126	1.0550
570	0.6524	54.4800	775	0.0110	0.9222
575	0.6614	55.2300	780	0.0105	0.8786
580	0.6663	55.6400	/	/	/

CL03C-60-50k-lv-01

WL(nm)	Spectrum	Spectrum	WL(nm)	Spectrum	Spectrum
380	0.0198	2.3400	585	0.4917	58.0400
385	0.0123	1.4550	590	0.4799	56.6500
390	0.0080	0.9493	595	0.4659	54.9900
395	0.0065	0.7654	600	0.4467	52.7300
400	0.0056	0.6664	605	0.4275	50.4600
405	0.0069	0.8138	610	0.4057	47.8900
410	0.0112	1.3160	615	0.3811	44.9800
415	0.0232	2.7420	620	0.3554	41.9500
420	0.0479	5.6520	625	0.3289	38.8200
425	0.0939	11.0900	630	0.3020	35.6500
430	0.1708	20.1600	635	0.2747	32.4300
435	0.2854	33.6900	640	0.2503	29.5500
440	0.4351	51.3600	645	0.2265	26.7400
445	0.6802	80.2900	650	0.2038	24.0600
450	0.9742	115.0000	655	0.1826	21.5500
455	0.8535	100.8000	660	0.1626	19.2000
460	0.4843	57.1700	665	0.1445	17.0600
465	0.3255	38.4300	670	0.1276	15.0700
470	0.2310	27.2700	675	0.1126	13.2900
475	0.1442	17.0200	680	0.0988	11.6600
480	0.1054	12.4400	685	0.0867	10.2400
485	0.0954	11.2700	690	0.0761	8.9770
490	0.0966	11.4100	695	0.0666	7.8610
495	0.1180	13.9300	700	0.0580	6.8520
500	0.1609	19.0000	705	0.0503	5.9390
505	0.2183	25.7600	710	0.0438	5.1750
510	0.2803	33.0900	715	0.0384	4.5330
515	0.3403	40.1600	720	0.0339	3.9960
520	0.3911	46.1700	725	0.0293	3.4560
525	0.4314	50.9200	730	0.0256	3.0180
530	0.4581	54.0700	735	0.0224	2.6400
535	0.4773	56.3400	740	0.0195	2.3030
540	0.4901	57.8500	745	0.0169	1.9960
545	0.4983	58.8200	750	0.0148	1.7440
550	0.5033	59.4100	755	0.0130	1.5340
555	0.5069	59.8300	760	0.0116	1.3710
560	0.5107	60.2900	765	0.0102	1.2030
565	0.5114	60.3600	770	0.0091	1.0710
570	0.5100	60.2000	775	0.0079	0.9375
575	0.5066	59.8000	780	0.0072	0.8529
580	0.5005	59.0800	/	/	/

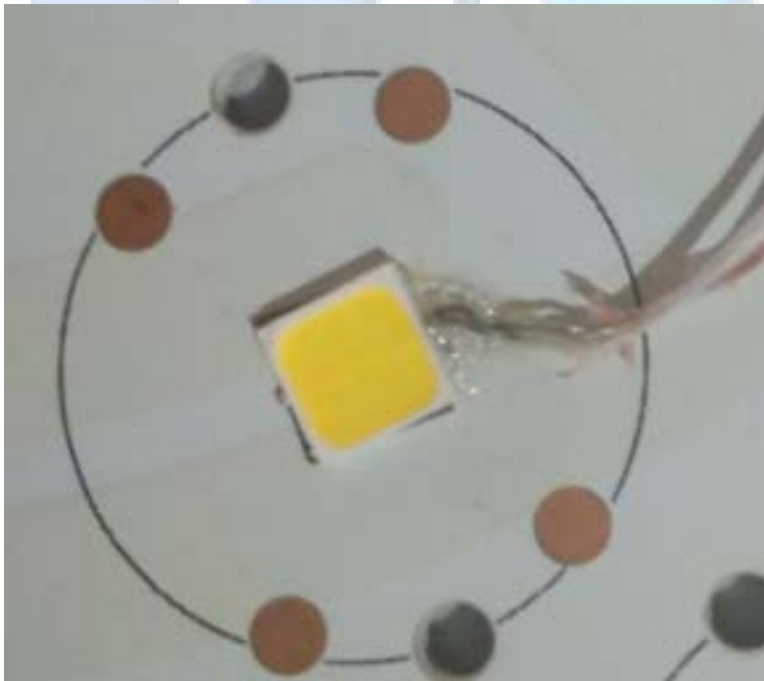
Driver Case Temperature/ LED Drive Current/TMP_{LED} Test Data

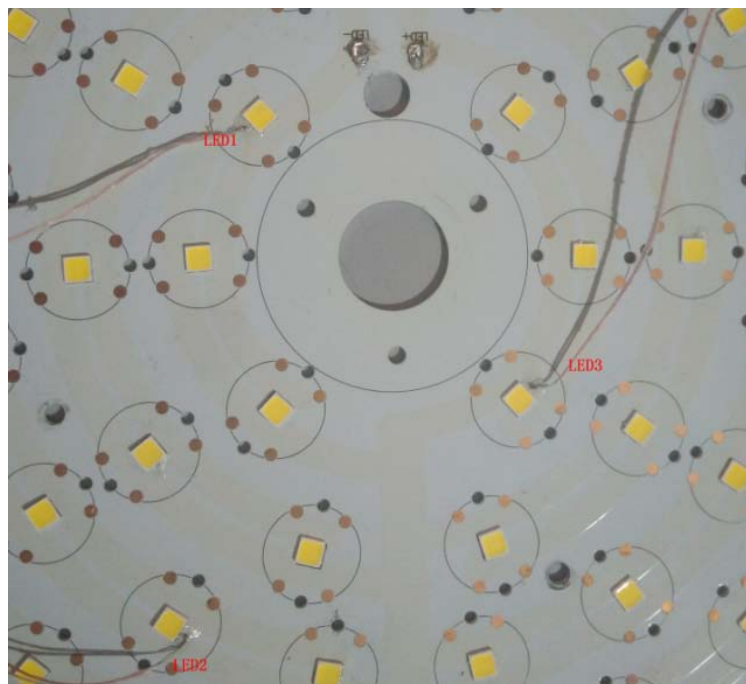
Driver Max Tc (°C)	Driver In-Situ Temperature (°C)	Temperature point location	LED In-Situ Current (mA)	LED In-Situ Temperature (°C)(1#)	LED In-Situ Temperature (°C)(2#)	LED In-Situ Temperature (°C)(3#)
N/A	N/A	(1): Maximum Temperature Point	60.4	66.3	64.4	65.5
		(2): Same with LM-80 Report	60.4	64.9	63.2	64.1

LED Lighting Source Temperature Measurement Point in LM-80 Report

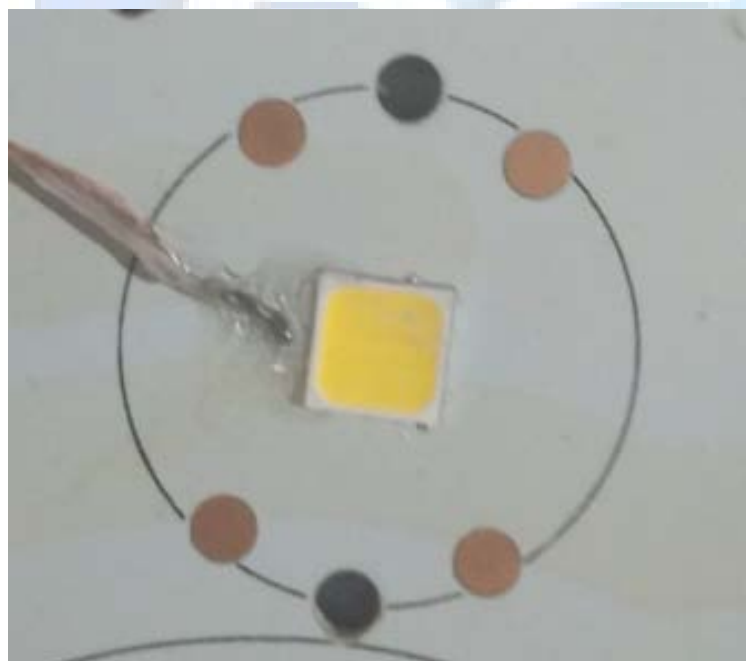
LED Lighting Source In Situ Temperature Measurement (1)

TOP: LED1



LED Lighting Source In Situ Temperature Measurement (2)

TOP: LED1



Lumen Maintenance and Lighting Source Life Test Data

L70

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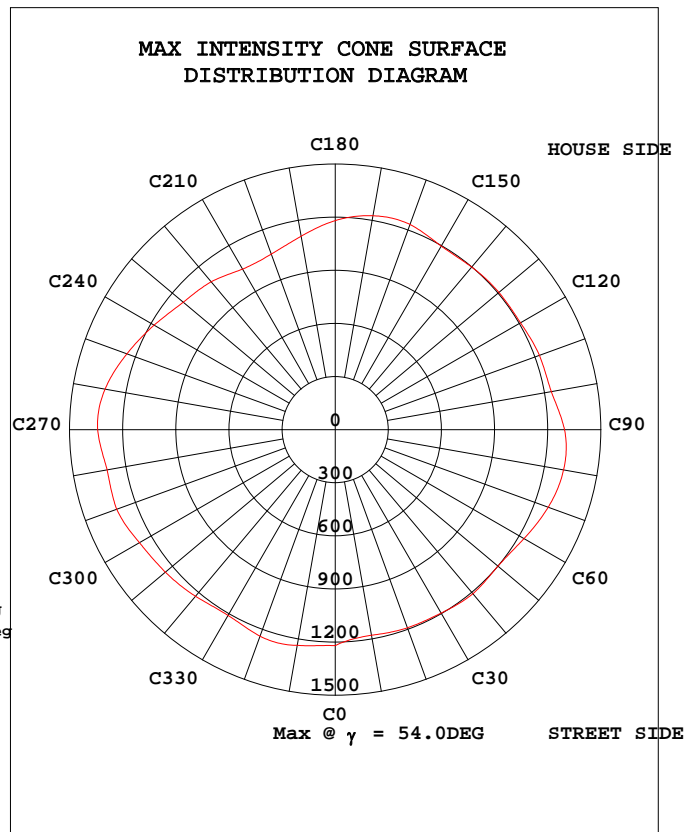
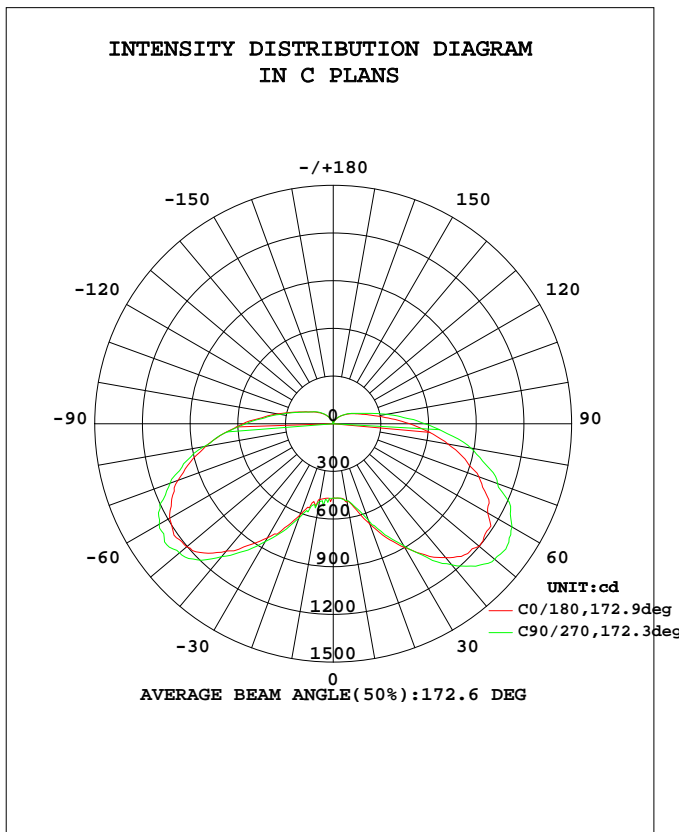
EUT Photo



STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.5352A P:63.68W PF:0.9911 Lamp Flux:6996.48x1 lm		
NAME: Outdoor Pole/Arm-mounted Decorative Luminaire	TYPE:CL03C-60-40k-1v-01	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Supertek	SUR.:0.19*0.19*3.14	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.87 lm/W			
MODEL	CL03C-60-40k-1v-01	I _{max} (cd)	1342	η street_up(%)	8.8
NOMINAL POWER(W)	60	LOR(%)	100.0	η street_down(%)	45.5
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6996	η house_up(%)	6.9
NOMINAL FLUX(lm)	6996.48	MAXIMUM @(C,γ)	270,54.0	η house_down(%)	38.8
LAMPS INSIDE	1	η up(%)	15.7	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	η down(%)	84.3	SLI	



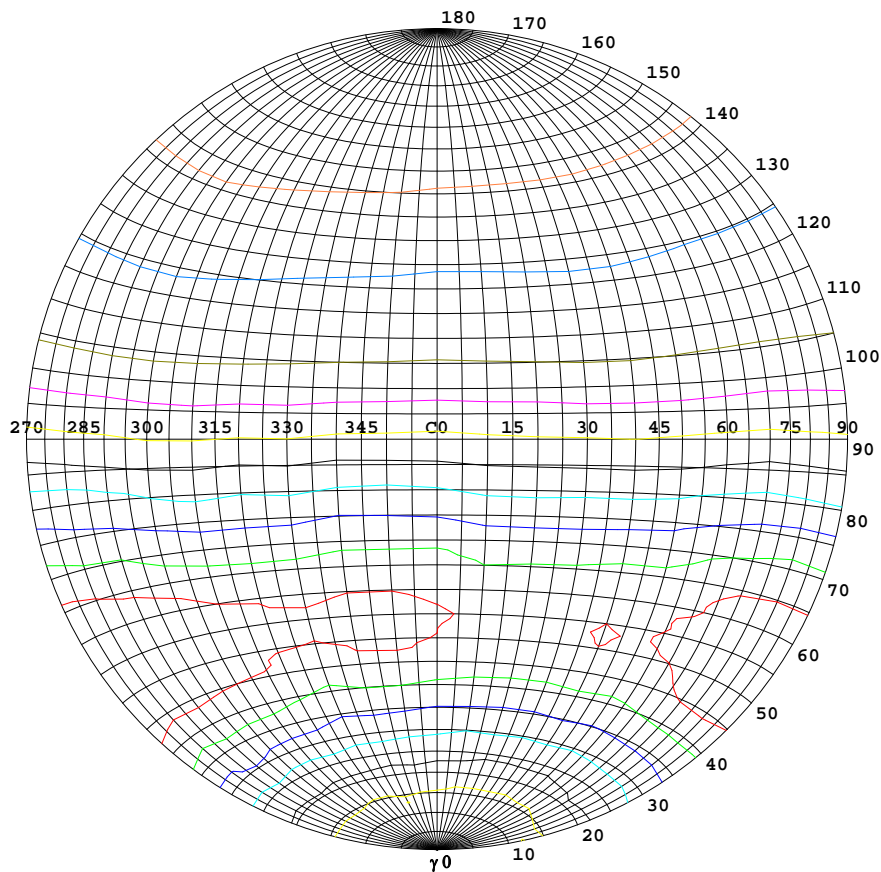
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:David
Test Date:2017-09-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.287
Humidity:67.1%
Test Distance:26.000m [K=1.0000]
Remarks:

Note: SLI:Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.0V I:0.5352A P:63.68W PF:0.9911 Lamp Flux:6996.48x1 lm		
NAME: Outdoor Pole/Arm-mounted Decorative Luminaire	TYPE:CL03C-60-40k-lv-01	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Supertek	SUR.:0.19*0.19*3.14	PROTECTION ANGLE:



Classification:

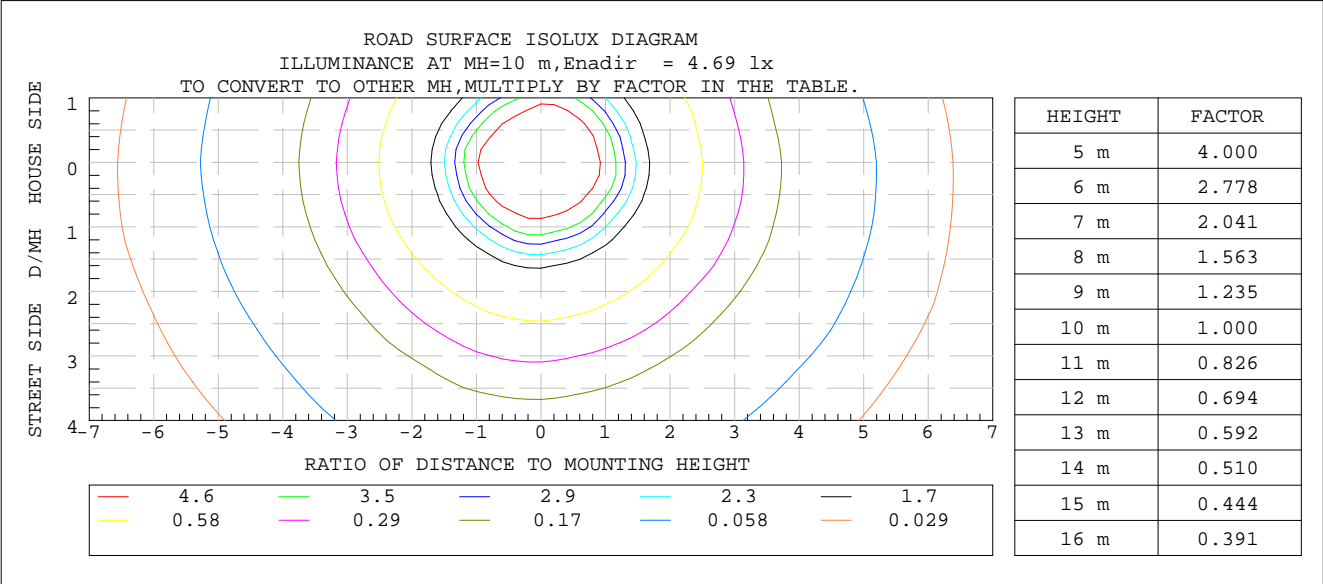
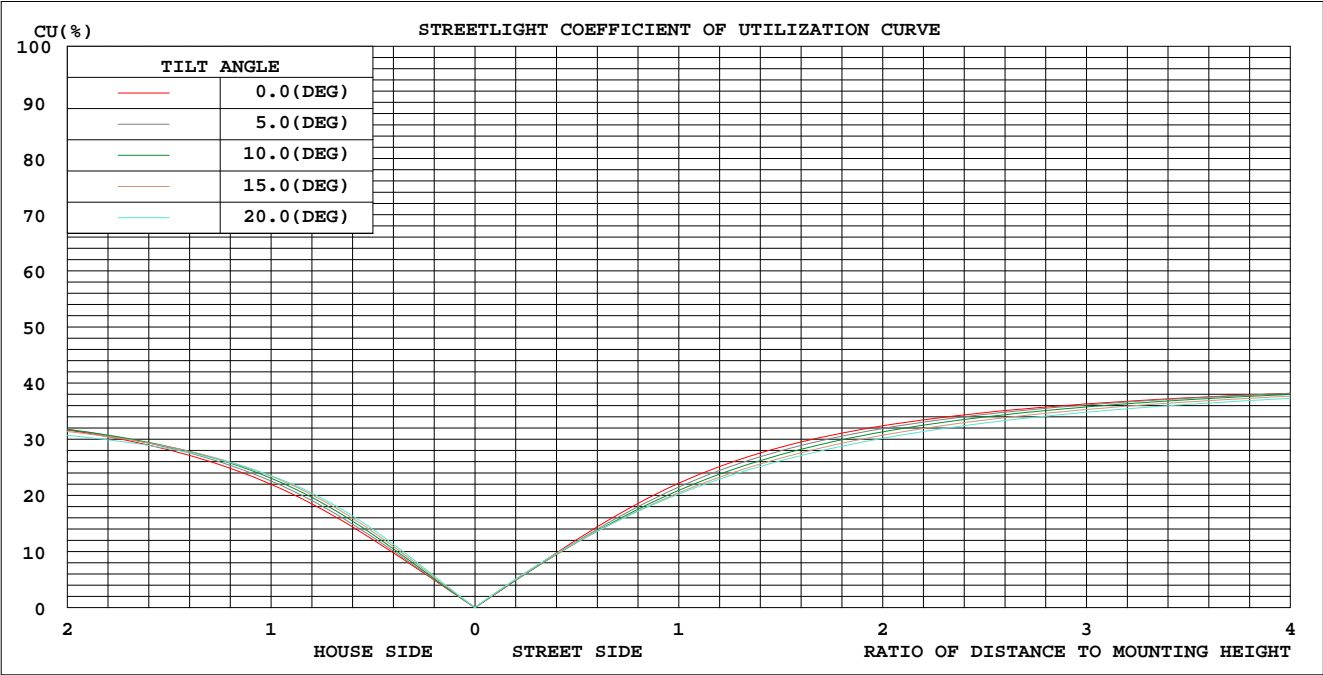
IES:Type IV - Very Short
 CIE:Broad - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:125.6cd/klm
 Max.At90:82.48cd/klm
 Max.80-90:125.6cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	1342
90%	1208
80%	1073
70%	939
60%	805
50%	671
40%	537
30%	403
20%	268
10%	134
5%	67

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:David
 Test Date:2017-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.287
 Humidity:67.1%
 Test Distance:26.000m [K=1.0000]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:David
Test Date:2017-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.287
Humidity:67.1%
Test Distance:26.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.0V I:0.5352A P:63.68W PF:0.9911 Lamp Flux:6996.48x1 lm		
NAME: Outdoor Pole/Arm-mounted Decorative Luminaire	TYPE:CL03C-60-40k-lv-01	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Supertek	SUR.:0.19*0.19*3.14	PROTECTION ANGLE:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum
10	484.5	486.3	499.1	493.4	500.4	480.8	491.0	492.1	0- 10	45.86	45.86	0.66
20	610.1	601.6	631.6	645.2	669.8	632.0	643.3	635.2	10- 20	157.9	203.8	2.91
30	829.9	822.6	856.1	892.5	899.0	840.8	886.9	881.6	20- 30	349.0	552.8	7.9
40	1046	1052	1092	1089	1099	1029	1159	1100	30- 40	613.7	1166	16.7
50	1204	1192	1263	1198	1199	1111	1325	1231	40- 50	897.7	2064	29.5
60	1189	1170	1264	1159	1122	1065	1299	1203	50- 60	1083	3147	45
70	1038	1017	1093	968.5	975.9	926.9	1100	1013	60- 70	1094	4242	60.6
80	814.1	783.8	824.3	702.6	732.0	733.8	879.1	787.9	70- 80	949.8	5191	74.2
90	568.4	541.8	548.7	451.0	482.6	491.4	576.7	535.8	80- 90	708.7	5900	84.3
100	358.3	341.9	341.7	273.5	283.4	290.4	343.0	330.1	90-100	454.9	6355	90.8
110	219.6	209.0	214.4	179.4	179.9	170.1	192.8	195.7	100-110	266.1	6621	94.6
120	150.0	145.9	151.0	133.5	127.4	120.3	131.0	132.4	110-120	161.3	6782	96.9
130	106.7	108.9	111.6	96.20	87.66	82.84	88.54	92.41	120-130	105.0	6887	98.4
140	71.24	73.41	73.89	63.35	57.16	55.30	58.91	60.97	130-140	62.37	6950	99.3
150	42.97	41.93	40.84	33.61	32.11	32.57	33.90	37.50	140-150	31.76	6982	99.8
160	19.46	19.77	16.63	13.68	10.74	12.12	10.82	15.11	150-160	12.00	6994	100
170	4.741	4.980	4.919	5.082	4.789	5.483	6.060	5.172	160-170	2.580	6996	100
180	1.426	1.429	1.591	1.733	1.662	1.789	1.799	1.807	170-180	0.3419	6996	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:David
 Test Date:2017-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.287
 Humidity:67.1%
 Test Distance:26.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.5352A P:63.68W PF:0.9911 Lamp Flux:6996.48x1 lm		
NAME: Outdoor Pole/Arm-mounted Decorative Luminaire	TYPE:CL03C-60-40k-lv-01	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Supertek	SUR.:0.19*0.19*3.14	PROTECTION ANGLE:

Conical surface Flux(90deg):

1582.6 lm

%lum = 22.6%

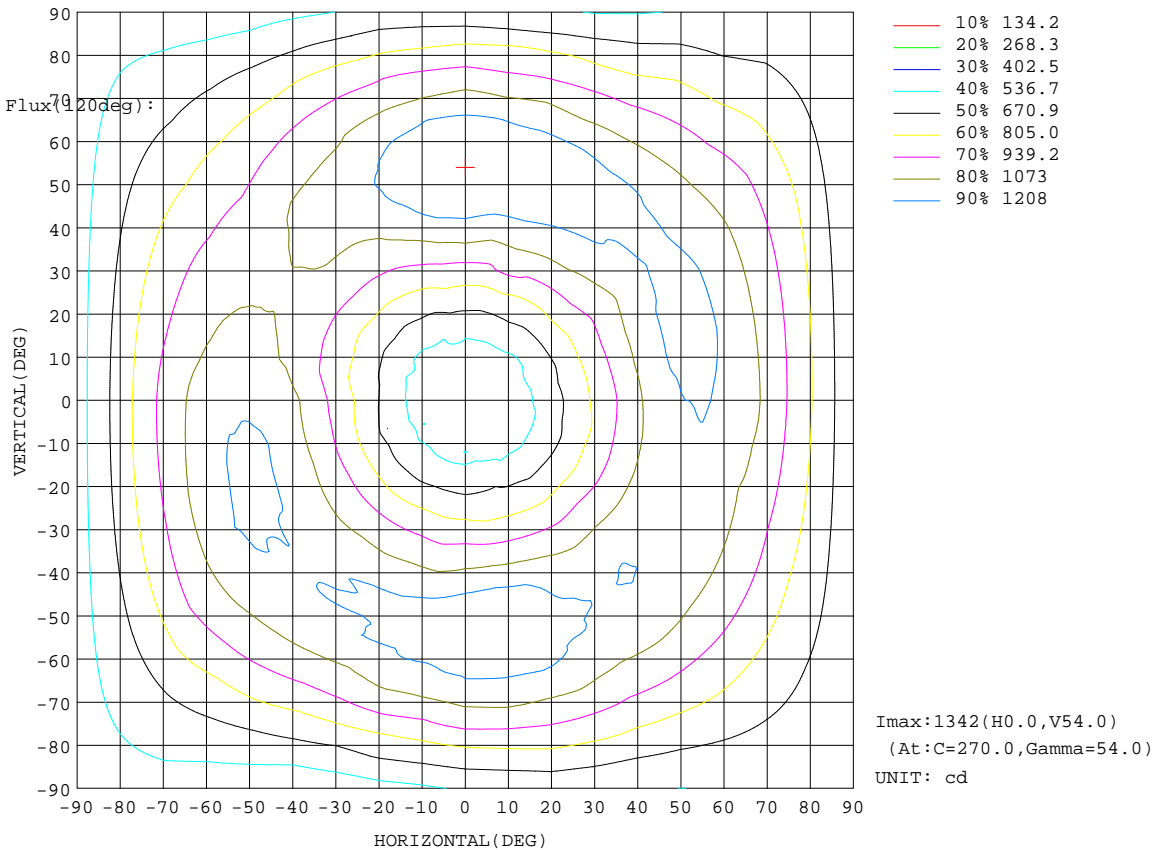
%lamp = 22.6%

Conical surface Flux(70deg):

3147.3 lm

%lum = 45.0%

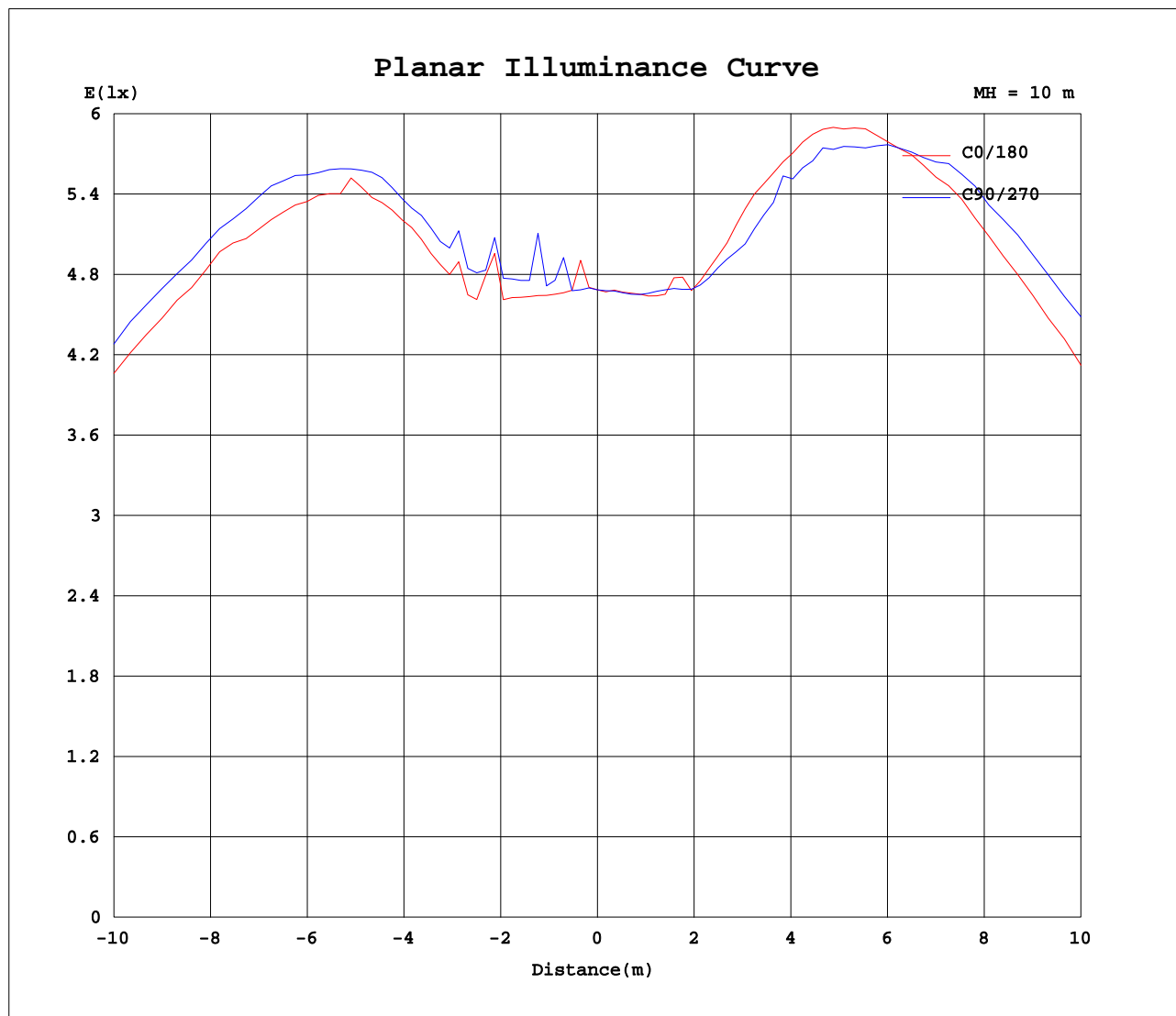
%lamp = 45.0%



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:David
Test Date:2017-09-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.287
Humidity:67.1%
Test Distance:26.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.6DEG
Operators: David
Test Date: 2017-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.287
Humidity: 67.1%
Test Distance: 26.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.5352A P:63.68W PF:0.9911 Lamp Flux:6996.48x1 lm		
NAME: Outdoor Pole/Arm-mounted Decorative Luminaire	TYPE:CL03C-60-40k-lv-01	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Supertek	SUR.:0.19*0.19*3.14	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	469	468	469	469	469	468	468	468	468	469	468	468	468	468	468	468	468	468	469
5	471	470	471	470	471	470	472	473	492	481	475	473	476	475	474	473	470	468	471
10	484	487	481	486	487	486	487	492	498	499	494	491	495	494	493	510	497	487	500
15	516	515	516	517	514	522	523	538	546	538	540	544	548	545	551	550	553	556	559
20	610	595	601	598	597	606	609	630	639	632	637	648	638	647	644	656	649	662	670
25	722	696	700	697	710	710	721	778	738	747	752	760	758	757	765	772	770	777	790
30	830	808	816	814	829	817	832	843	845	856	860	872	875	884	900	894	899	902	899
35	935	931	925	929	946	935	950	967	973	979	964	983	990	992	999	1008	1012	1016	1006
40	1046	1037	1023	1040	1063	1040	1071	1095	1102	1092	1070	1090	1080	1088	1090	1092	1107	1110	1099
45	1149	1106	1109	1124	1146	1130	1160	1217	1229	1211	1186	1182	1182	1177	1169	1165	1183	1188	1166
50	1204	1161	1170	1184	1204	1180	1206	1279	1295	1263	1234	1237	1212	1197	1198	1199	1222	1219	1199
55	1223	1183	1188	1188	1208	1190	1229	1291	1304	1296	1239	1225	1199	1191	1197	1207	1224	1230	1179
60	1189	1138	1141	1151	1165	1175	1193	1250	1264	1264	1226	1204	1178	1166	1153	1169	1194	1180	1122
65	1121	1074	1083	1085	1106	1102	1158	1189	1204	1205	1144	1122	1076	1065	1065	1083	1118	1096	1066
70	1038	1003	988	997	1013	1021	1066	1081	1098	1093	1054	1016	976	972	965	989	1006	988	976
75	930	903	896	887	898	911	943	976	976	975	926	908	856	835	854	866	873	870	859
80	814	782	772	768	777	791	824	849	837	824	779	755	708	696	709	717	747	737	732
85	689	665	659	658	648	660	686	699	693	688	648	623	580	557	573	583	605	605	606
90	568	553	547	542	536	548	565	575	561	549	521	490	451	448	454	463	476	484	483
95	450	446	445	437	435	442	452	462	450	432	409	385	357	349	358	364	371	370	368
100	358	354	349	342	338	346	356	359	352	342	323	304	284	271	276	282	287	285	283
105	278	273	269	263	263	270	277	281	277	269	255	239	224	217	222	228	229	229	223
110	220	217	213	208	206	212	217	220	219	214	206	195	184	179	180	184	186	186	180
115	179	177	174	169	169	173	177	180	178	176	171	163	156	152	153	154	156	156	150
120	150	149	146	144	144	147	150	152	152	151	148	142	137	133	134	134	135	133	127
125	128	127	126	125	126	129	132	133	133	132	131	126	121	116	116	115	114	112	106
130	107	107	106	106	108	110	112	112	112	112	109	105	100	96.4	96.0	95.9	94.5	92.6	87.7
135	88.9	89.6	89.5	89.8	90.5	91.8	93.1	93.4	93.8	93.0	90.4	86.3	82.7	79.4	79.1	78.9	77.5	75.8	71.7
140	71.2	72.3	72.4	72.6	72.8	74.0	74.8	75.2	75.2	73.9	71.7	68.8	66.1	63.4	63.3	63.1	62.0	60.2	57.2
145	55.4	55.8	55.8	55.5	55.9	56.9	57.7	57.6	57.0	55.9	54.1	52.2	49.7	47.4	47.4	47.8	46.8	45.6	43.7
150	43.0	42.9	42.3	41.4	41.5	42.4	43.1	42.7	42.0	40.8	39.5	38.0	35.9	33.9	33.3	33.4	33.2	33.0	32.1
155	30.9	31.0	30.7	30.0	29.8	30.2	30.4	29.7	28.9	27.8	26.7	25.5	23.7	22.4	21.7	21.4	21.1	20.7	20.4
160	19.5	19.7	20.0	19.9	19.9	19.7	19.3	18.5	17.6	16.6	15.6	14.7	14.1	14.1	13.3	12.1	11.4	11.0	10.7
165	9.70	10.3	10.9	11.4	11.6	11.2	10.3	9.32	8.44	7.79	7.46	7.38	7.43	7.23	6.91	6.54	6.19	5.88	5.63
170	4.74	4.91	5.07	5.15	5.08	4.88	4.67	4.59	4.65	4.92	5.11	5.23	5.21	5.13	5.04	5.04	4.92	4.84	4.79
175	3.02	3.13	3.21	3.35	3.47	3.65	3.80	3.94	4.23	4.41	4.19	3.92	3.58	3.19	2.89	2.60	2.33	2.09	1.76
180	1.43	1.46	1.45	1.46	1.40	1.46	1.50	1.54	1.52	1.59	1.72	1.81	1.82	1.78	1.69	1.82	1.80	1.74	1.66

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.6DEG
 Operators:David
 Test Date:2017-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.287
 Humidity:67.1%
 Test Distance:26.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.5352A P:63.68W PF:0.9911 Lamp Flux:6996.48x1 lm			
NAME: Outdoor Pole/Arm-mounted Decorative Luminaire		TYPE:CL03C-60-40k-lv-01	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:	
MFR.: Supertek	SUR.:0.19*0.19*3.14	PROTECTION ANGLE:	

Table--2

UNIT: cd

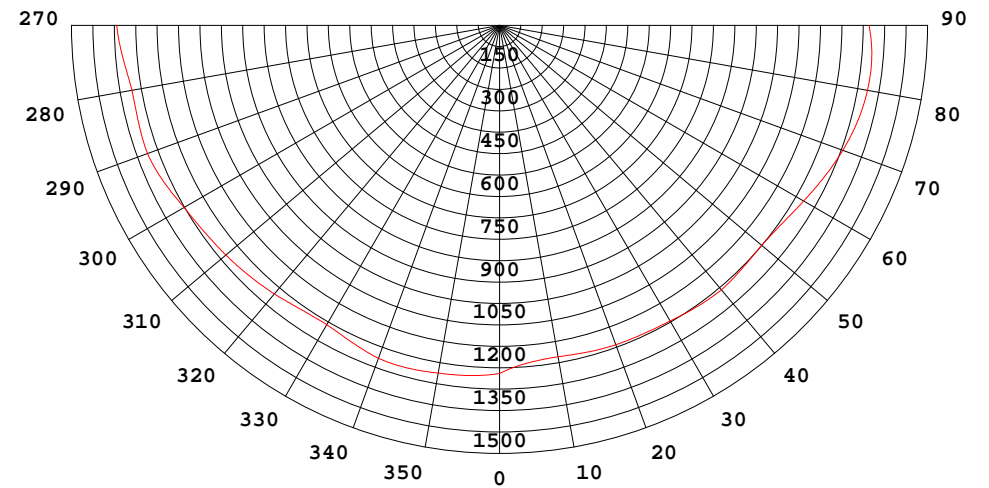
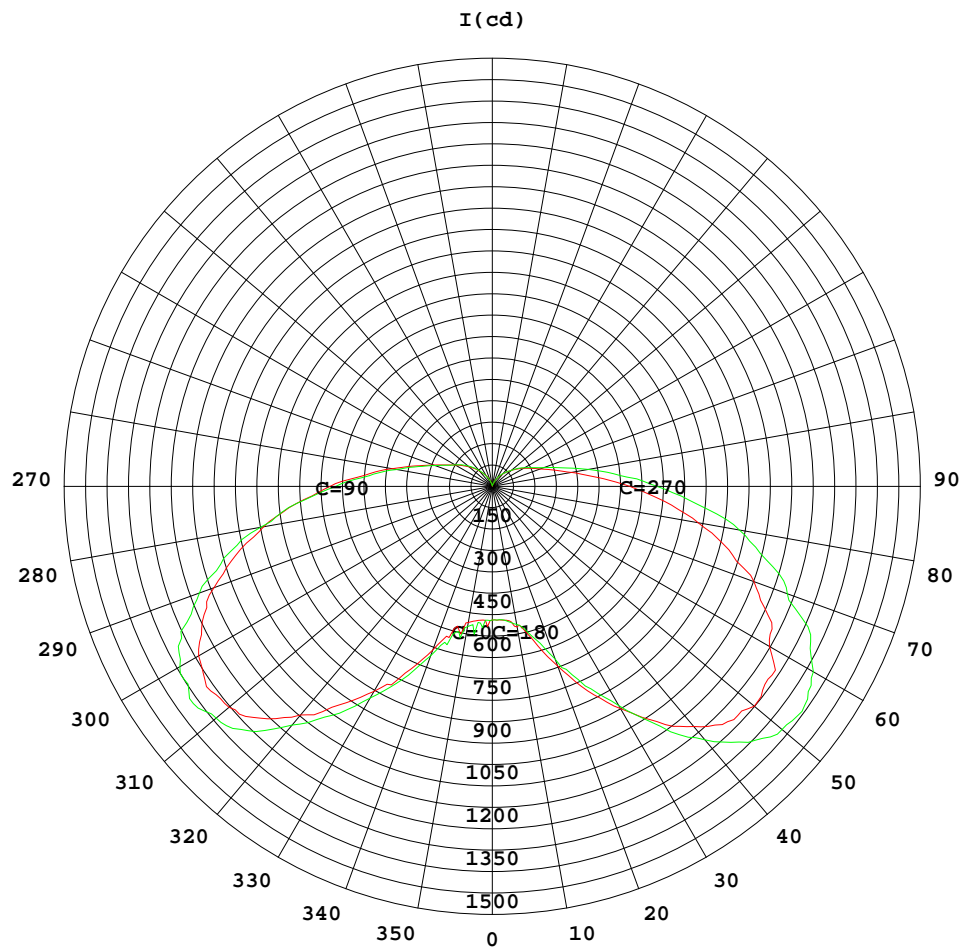
C(DEC) γ (DEC)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	468	469	469	469	468	468	468	468	469	468	468	468	468	468	468	468	468		
5	506	468	483	468	467	467	467	468	470	471	471	475	475	472	472	507	482		
10	485	481	478	486	476	477	482	487	491	496	492	489	492	492	501	491	490		
15	583	542	544	533	533	554	537	555	545	567	550	565	543	530	529	553	532		
20	673	647	635	637	627	640	636	660	643	649	650	654	637	634	626	618	631		
25	759	755	730	733	735	754	755	773	772	758	782	761	755	758	743	742	728		
30	855	846	830	841	841	845	866	886	887	896	907	889	881	882	847	852	841		
35	951	934	931	941	944	959	986	1021	1026	1018	1025	1009	1006	991	953	967	954		
40	1031	1010	1008	1025	1034	1055	1095	1147	1159	1134	1133	1116	1112	1088	1050	1076	1075		
45	1082	1056	1053	1088	1097	1116	1179	1260	1268	1234	1238	1216	1201	1184	1145	1173	1171		
50	1111	1067	1066	1102	1121	1167	1241	1328	1325	1286	1294	1259	1242	1221	1202	1228	1223		
55	1105	1052	1047	1087	1115	1180	1244	1323	1337	1308	1305	1270	1249	1231	1218	1241	1235		
60	1064	1013	997	1047	1082	1133	1220	1276	1299	1280	1260	1232	1206	1200	1184	1204	1205		
65	996	958	941	972	1025	1080	1149	1211	1231	1210	1188	1145	1125	1121	1108	1133	1127		
70	912	873	870	905	948	990	1045	1082	1100	1082	1078	1025	1014	1011	1009	1034	1034		
75	820	787	786	810	849	886	944	967	994	979	950	921	901	918	900	943	938		
80	710	687	693	714	754	784	827	850	879	868	833	803	776	799	783	821	821		
85	593	574	574	593	624	659	701	725	721	699	685	661	653	678	667	693	694		
90	481	465	465	476	506	537	573	577	577	563	557	529	529	543	537	558	564		
95	371	365	360	370	392	415	445	451	447	448	442	425	422	430	426	443	449		
100	282	279	275	283	298	315	334	339	343	336	334	325	326	335	341	349	350		
105	221	216	211	214	225	237	250	253	253	251	247	245	246	254	260	268	272		
110	178	172	167	166	174	182	190	193	193	190	188	188	191	201	206	212	213		
115	147	142	138	138	143	149	153	155	156	155	152	151	154	161	167	171	173		
120	124	121	119	119	122	127	130	131	131	131	129	127	130	134	139	143	146		
125	103	100	98.8	99.0	101	105	108	110	111	112	111	110	113	116	119	121	123		
130	85.2	82.7	81.7	82.2	83.5	85.9	87.8	88.5	88.5	89.1	88.3	88.3	91.0	93.8	96.9	99.9	102		
135	69.7	67.9	67.1	67.5	68.5	70.4	71.5	72.2	72.2	72.3	71.8	71.6	74.1	76.6	79.4	82.2	84.4		
140	55.5	54.9	54.1	54.6	56.0	57.2	58.2	58.6	58.9	58.9	58.5	57.8	59.8	62.2	64.3	65.9	67.6		
145	43.0	42.7	42.1	42.4	44.3	45.5	46.1	46.2	46.2	46.7	45.7	45.0	47.2	49.8	51.6	52.8	53.2		
150	32.1	32.1	31.9	32.2	33.0	33.3	33.5	33.4	33.9	34.5	34.0	34.5	36.5	38.5	39.9	40.7	41.3		
155	20.3	20.5	21.0	21.5	21.1	20.7	20.4	20.6	20.9	21.9	22.8	23.7	25.1	26.6	27.7	28.6	29.3		
160	10.9	11.3	12.0	12.4	11.8	11.1	10.6	10.6	10.8	11.8	13.2	14.3	14.8	15.5	16.3	17.3	18.0		
165	5.71	5.82	5.96	6.09	6.35	6.39	6.67	6.96	6.77	6.39	6.07	6.83	7.39	7.70	8.04	8.47	8.97		
170	4.77	4.79	5.02	5.32	5.65	5.79	5.80	5.96	6.06	6.08	5.69	5.41	5.28	5.07	4.99	4.82	4.76		
175	1.74	1.72	1.78	1.82	1.78	1.78	2.43	1.78	1.76	1.83	2.11	2.49	2.76	2.91	2.92	2.94	2.96		
180	1.72	1.74	1.78	1.80	1.78	1.80	1.82	1.80	1.80	1.78	1.81	1.82	1.80	1.82	1.82	1.84	1.76		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.6DEG
Operators:David
Test Date:2017-09-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.287
Humidity:67.1%
Test Distance:26.000m [K=1.0000]
Remarks:

FLUX DATA:

LOR:	100.0 %
STREET DOWN:	3182 lm
STREET UP:	614.4 lm
HOUSE DOWN:	2718 lm
HOUSE UP:	482.0 lm



$I_{\max}(100\%) = 1342 \text{ cd}$

