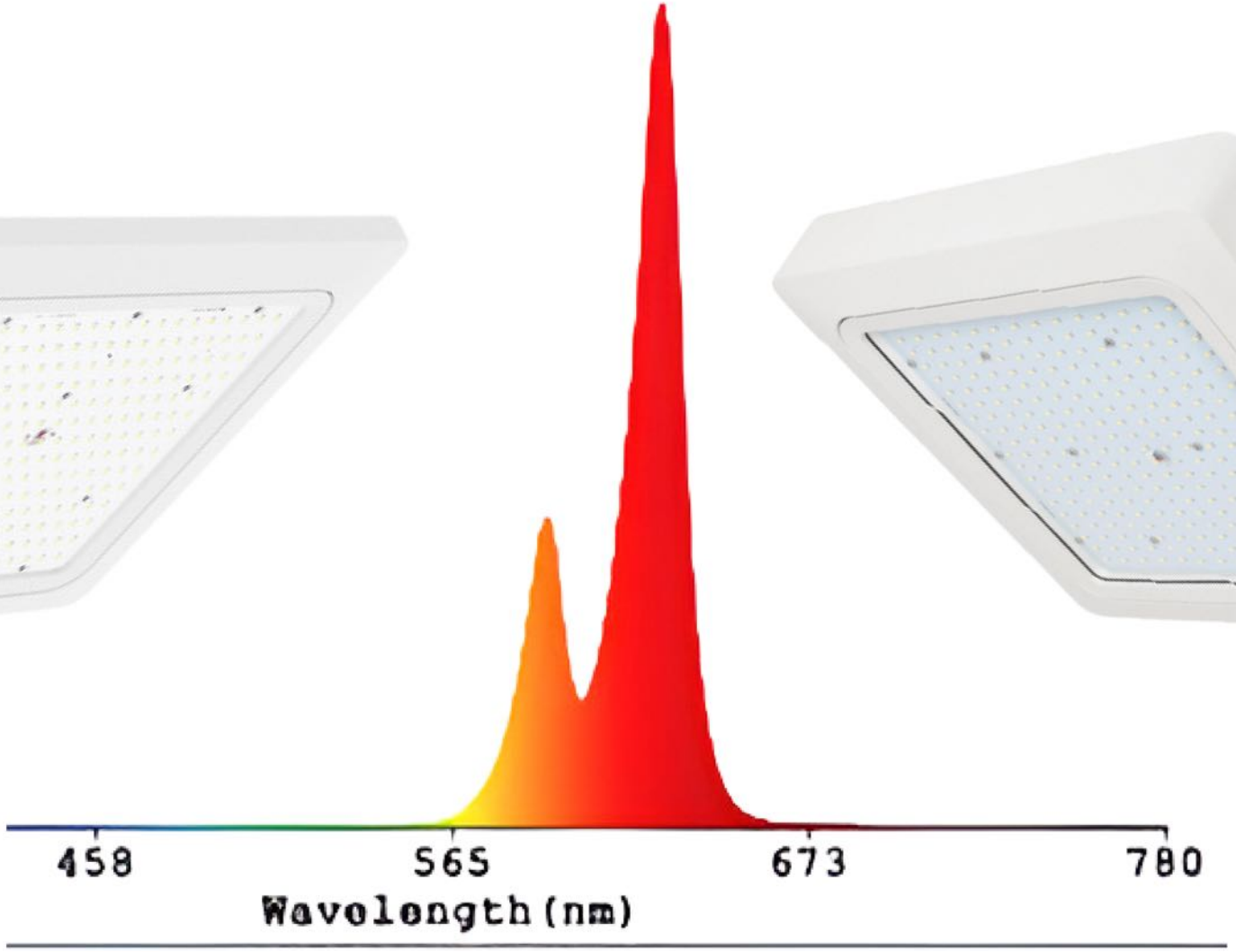
AccessFixtures
High-Performance Lighting Solutions

L70 25°C 70,000 Hours

FLAT & FLYT 160

590nm AMBER AND RED SPECTRUM



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FLAT & FLYT 160 590NM AMBER AND RED - FIXTURE TEST REPORT - CLEAR GLASS LENS

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		342.4 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	156.2V x 155.5H
	At 50% of Imax	118.4V x 116.2H
	At 90% of Imax	51.8V x 50.4H
Beam Flux	Total	999.9 lumens per klm.
	To 10% of Imax	985.8 lumens per klm.
	To 50% of Imax	789.1 lumens per klm.
	To 90% of Imax	201.1 lumens per klm.

Light Output Ratio:	100.0%
Luminaire Power:	153.4 W
90% Beam Spread	51.8V x 50.4H
50% Beam Lumens	789.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %
Luminaire Efficiency(Light Output Ratio)	100.0 %

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG Test
Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG Test
Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

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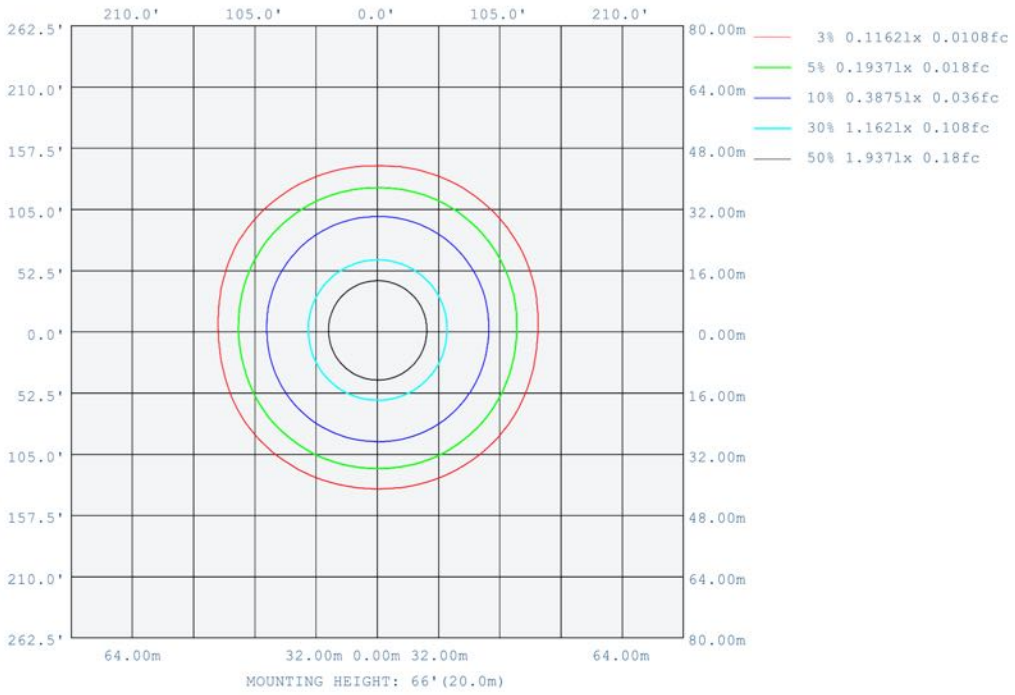
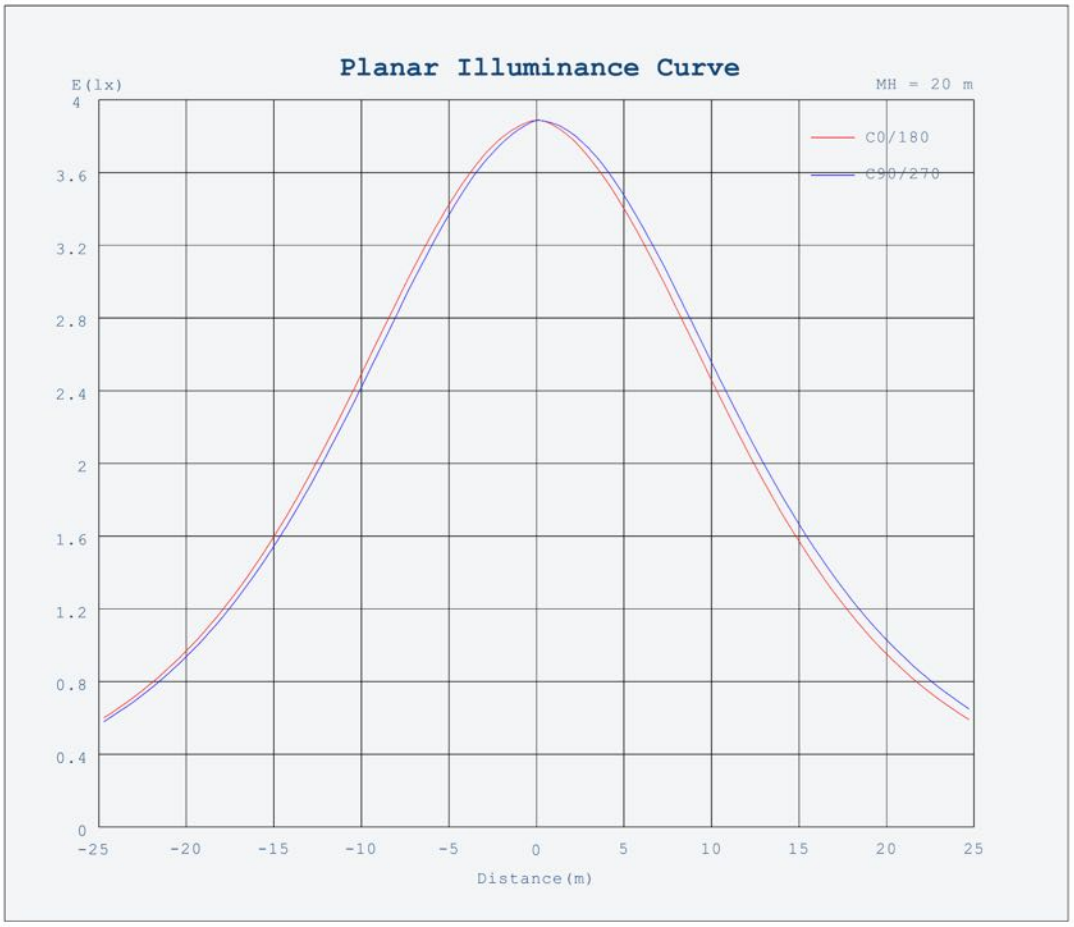
ISOLUX DIAGRAM

Test:U:235.8V I:0.6820A P:153.4W PF:0.954 Freq:50.03Hz Lamp Flux:4542.64x1 lm		
NAME: AF88X160-amber 590nm-red-clear glass	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



Planar Illuminance Curve



H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

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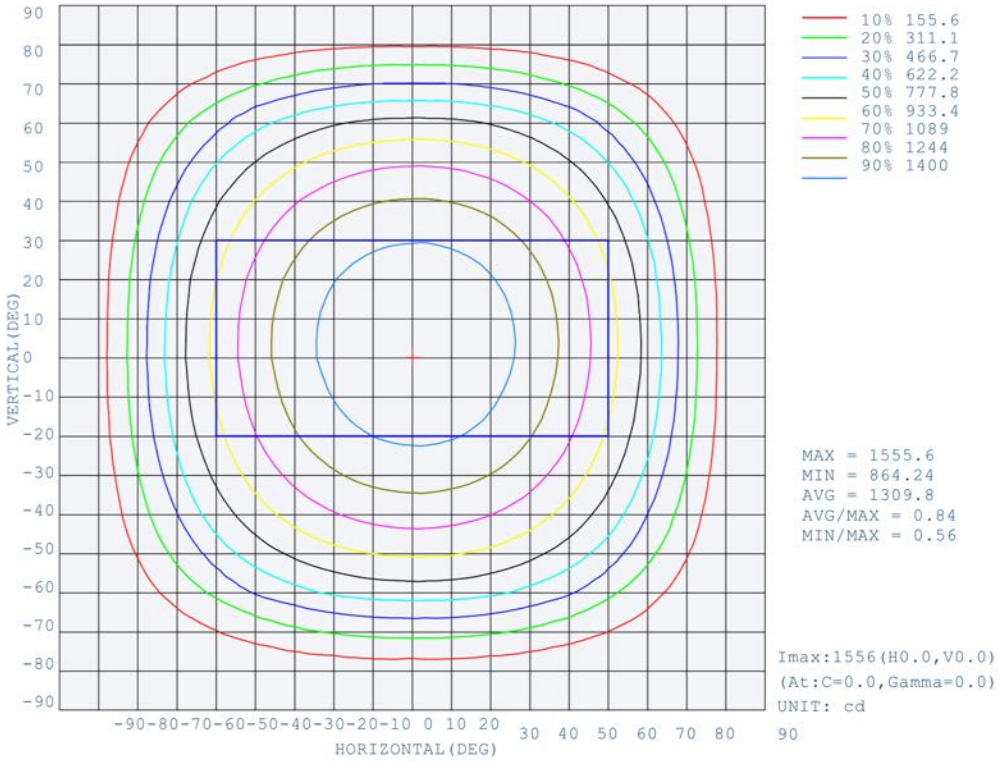
ISOCANDELA DIAGRAM

Test:U:235.8V I:0.6820A P:153.4W PF:0.954 Freq:50.03Hz Lamp Flux:4542.64x1 lm		
NAME:AF88X160-amber 590nm-red-clear glass	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

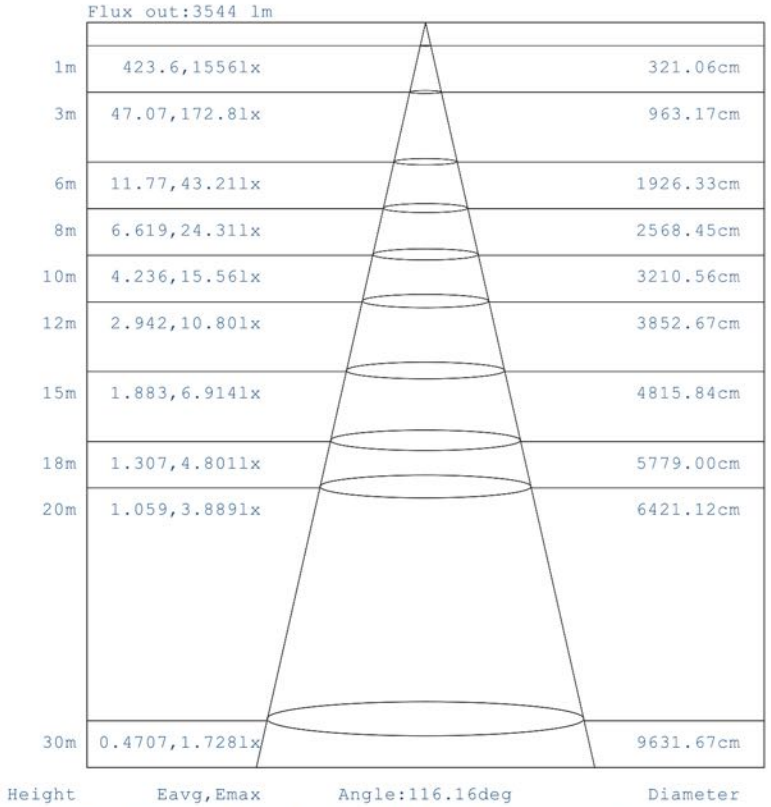


H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

AAI Figure

Test:U:235.8V I:0.6820A P:153.4W PF:0.954 Freq:50.03Hz Lamp Flux:4542.64x1 lm		
NAME:AF88X160-amber 590nm-red-clear glass	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

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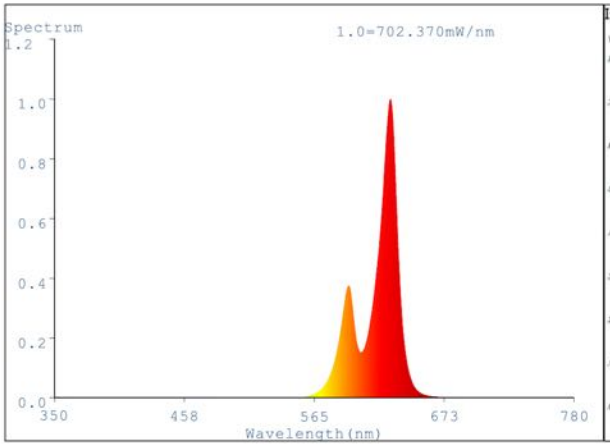
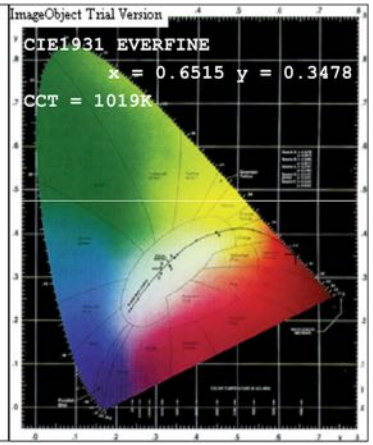
SPECTRUM TEST REPORT - FLAT & FLYT 120 590NM AMBER AND RED - Clear Glass





Color Parameters:

Chromaticity Coordinate:x=0.6515 y=0.3478/u'=0.4439 v'=0.5332 CCT=1019K(Duv=-0.0005) Dominant WL:Ld =605.9nm Purity=99.9% Ratio:R=60.7% G=39.3% B=0.0% Peak WL:Lp=628.2nm FWHM=16.2nm Render Index:Ra=41.1 CRI=42.8 AvgR=41.3

R1=33 R2=79 R3=53 R4=6 R5=27 R6=8 9R7=41 R8=0 R9=0 R10=71 R11=4 R12=79 R13=41 R14=76 R15=21

Photo Parameters:

Flux = 5223 lm Eff. : 42.87 lm/W Fe = 17.99 W

Electrical parameters:

V = 219.64 V I = 0.5648 A P = 121.8 W PF = 0.9822

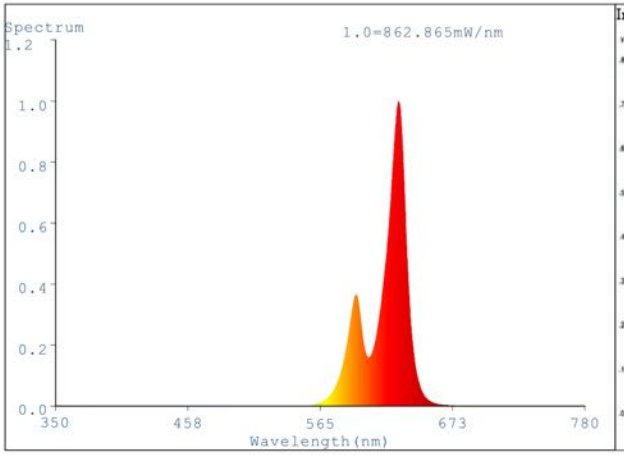
LEVEL:OUT WHITE:OUT

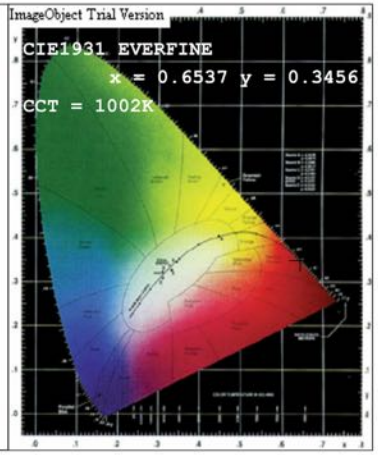
Status: Integral T = 10 ms Ip = 43901 (67%)

Model:LIGHT
Tester:DAMIN
Temperature:25.3Deg
Manufacturer:EVERFINE

Number:N-00006
Date:2024-01-03 10:41
Humidity:65.0%
Remarks:---

SPECTRUM TEST REPORT - FLAT & FLYT 160 590NM AMBER AND RED - Clear Glass





Color Parameters:

Chromaticity Coordinate:x=0.6537 y=0.3456/u'=0.4477 v'=0.5326 CCT=1002K(Duv=-0.0004) Dominant WL:Ld =606.5nm Purity=99.9% Ratio:R=62.1% G=37.9% B=0.0% Peak WL:Lp=628.5nm FWHM=16.9nm Render Index:Ra=42.2 CRI=44.0 AvgR=42.5

R1=35 R2=80 R3=55 R4=8 R5=29 R6=90 R7=41 R8=0 R9=0 R10=72 R11=8 R12=78 R13=43 R14=77 R15=21

Photo Parameters:

Flux = 6396 lm Eff. : 39.36 lm/W Fe = 22.55 W

Electrical parameters:

V = 219.69 V I = 0.7483 A P = 162.5 W PF = 0.9885

LEVEL:OUT WHITE:OUT

Status: Integral T = 10 ms Ip = 54056 (82%)

Model:LIGHT
Tester:DAMIN
Temperature:25.3Deg
Manufacturer:EVERFINE

Number:N-00007
Date:2024-01-03 10:42
Humidity:65.0%
Remarks:---

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FLAT & FLYT 160 590NM AMBER AND RED - FIXTURE TEST REPORT - CLEAR POLYCARBONATE LENS

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	345.2 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal
Beam Spread	156.2V x 155.6H
	118.3V x 115.7H
	51.2V x 49.0H
Beam Flux — Total	999.9 lumens per klm.
To 10% of Imax	985.8 lumens per klm.
To 50% of Imax	785.0 lumens per klm.
To 90% of Imax	195.3 lumens per klm.
Upward LOR	0.0 %
Downward LOR	100.0 %
Luminaire Efficiency(Light Output Ratio)	100.0 %

Light Output Ratio:	100.0%
Luminaire Power:	153.4 W
90% Beam Spread	51.2V x 49.0H
50% Beam Lumens	785 lumens per klm.

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG Test
Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG Test
Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

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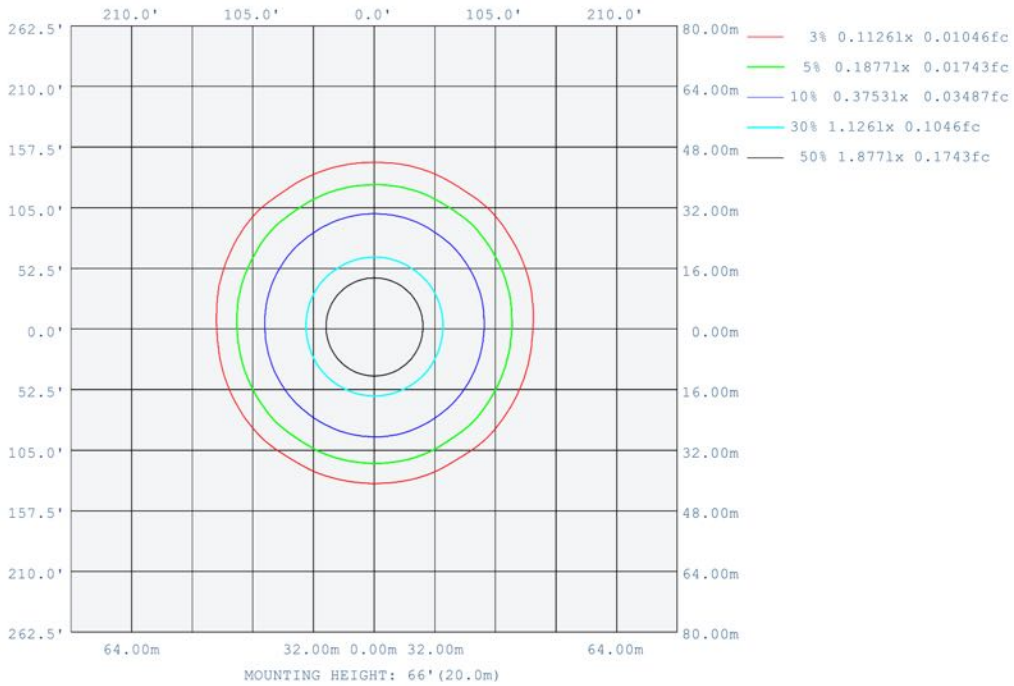
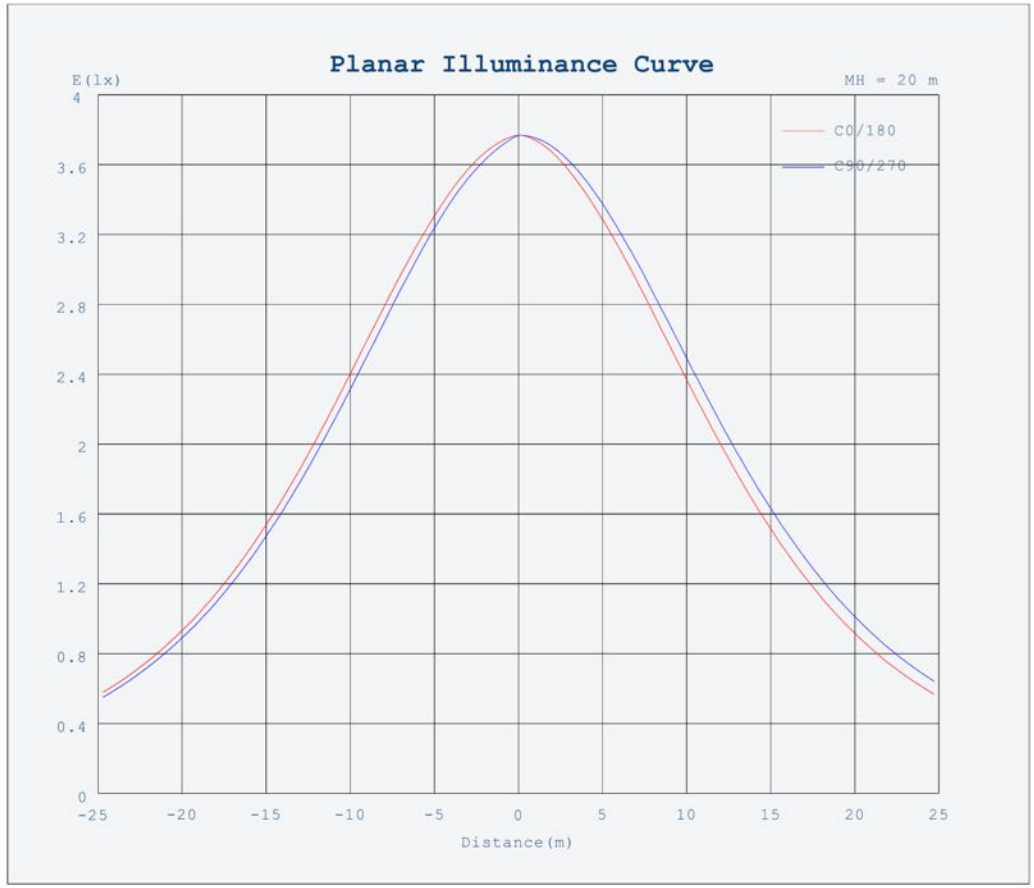
ISOLUX DIAGRAM

Test:U:234.2V I:0.6696A P:153.4W PF:0.978 Freq:50.00Hz Lamp Flux:4367.03x1 lm		
NAME: AF88X160-amber 590nm-red-clear PC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



Planar Illuminance Curve



H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

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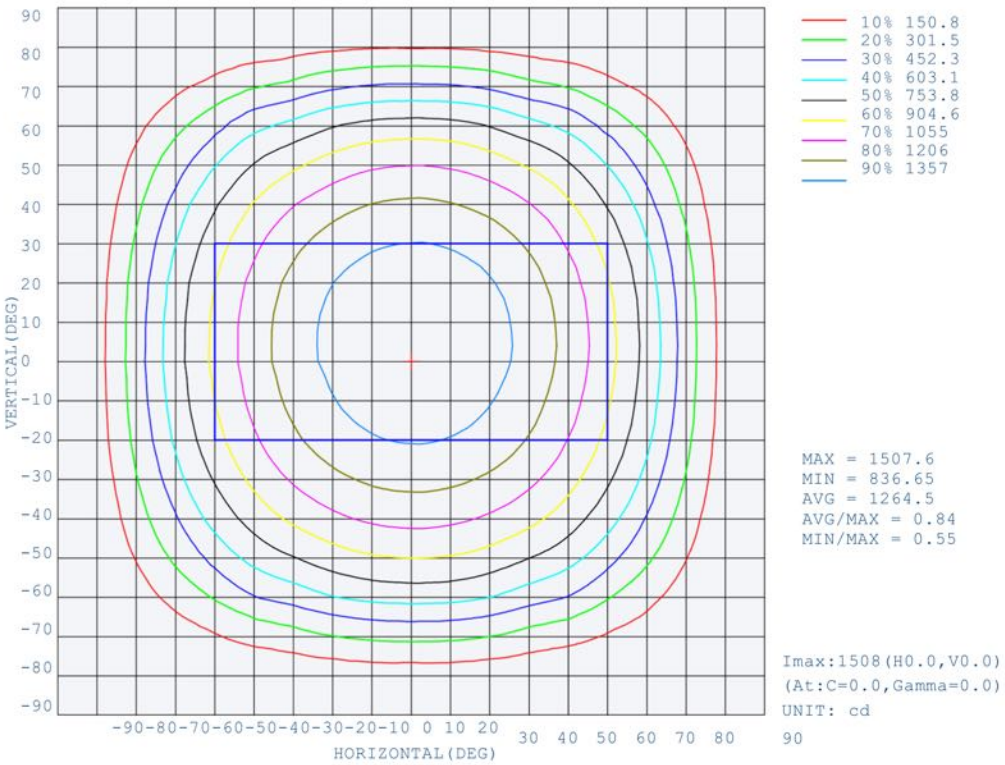
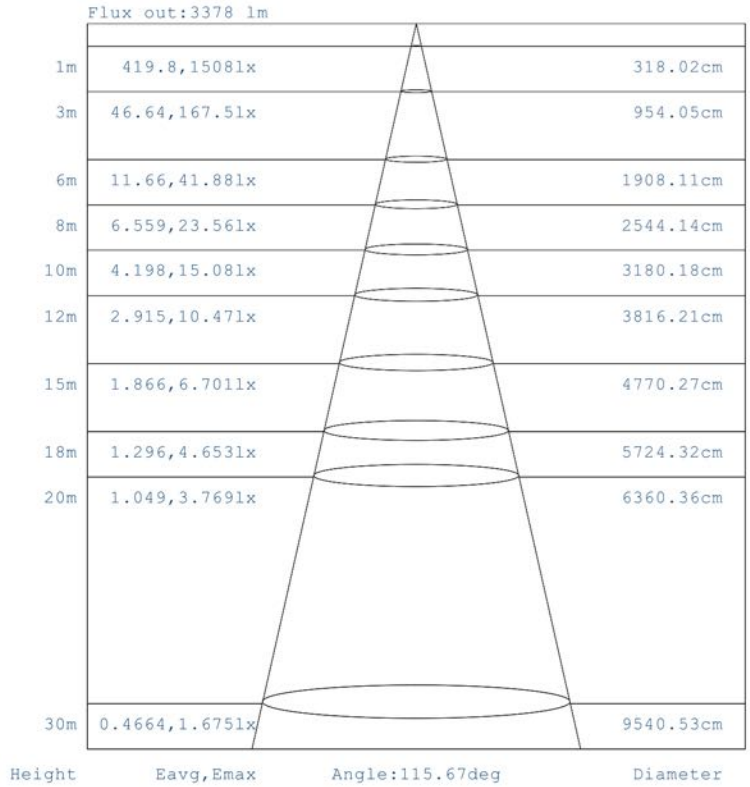
ISOCANDELA DIAGRAM

Test:U:234.2V I:0.6696A P:153.4W PF:0.978 Freq:50.00Hz Lamp Flux:4367.03x1 lm		
NAME: AF88X160-amber 590nm-red-clear PC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



AAI Figure

Test:U:234.2V I:0.6696A P:153.4W PF:0.978 Freq:50.00Hz Lamp Flux:4367.03x1 lm		
NAME: AF88X160-amber 590nm-red-clear PC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

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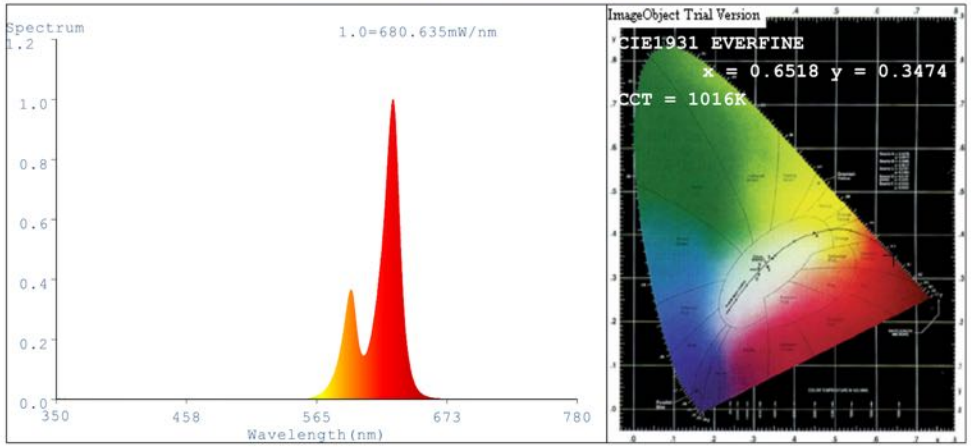
SPECTRUM TEST REPORT - FLAT & FLYT 120 590NM AMBER AND RED - Clear POLYCARBONATE LENS



Color Parameters:

Chromaticity Coordinate:x=0.6518 y=0.3474/u'=0.4445 v'=0.5331
CCT=1016K(Duv=-0.0005) Dominant WL:Ld =606.0nm Purity=99.9%
Ratio:R=60.9% G=39.1% B=0.0% Peak WL:Lp=627.6nm FWHM=16.0nm
Render Index:Ra=41.5 CRI=43.3 AvgR=41.8
R1=34 R2=79 R3=54 R4=7 R5=28 R6=89 R7=41 R8=0 R9=0 R10=71 R11=5
R12=79 R13=42 R14=76 R15=21

Photo Parameters:

Flux = 4980 lm Eff. : 40.79 lm/W Fe = 17.21 W

Electrical parameters:

V = 219.73 V I = 0.5656 A P = 122.1 W PF = 0.9822

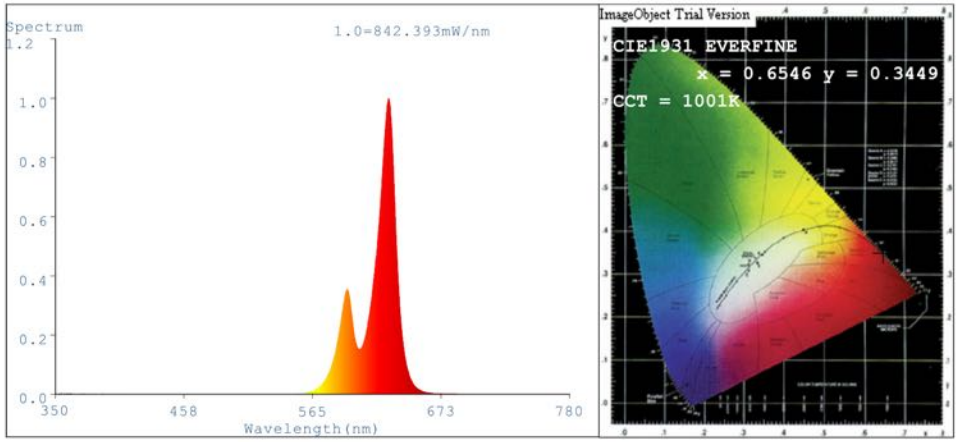
LEVEL:OUT WHITE:OUT

Status: Integral T = 11 ms Ip = 46787 (71%)

Model:LIGHT
Tester:DAMIN
Temperature:25.3Deg
Manufacturer:EVERFINE

Number:3
Date:2024-01-03 11:17
Humidity:65.0%
Remarks:---

SPECTRUM TEST REPORT - FLAT & FLYT 160 590NM AMBER AND RED - Clear POLYCARBONATE LENS



Color Parameters:

Chromaticity Coordinate:x=0.6546 y=0.3449/u'=0.4491 v'=0.5325
CCT=1001K(Duv=-0.0013) Dominant WL:Ld =606.8nm Purity=99.9%
Ratio:R=62.6% G=37.4% B=0.0% Peak WL:Lp=628.5nm FWHM=16.7nm
Render Index:Ra=42.2 CRI=44.0 AvgR=42.5
R1=35 R2=80 R3=55 R4=9 R5=29 R6=89 R7=42 R8=0 R9=0 R10=72 R11=8
R12=78 R13=43 R14=77 R15=21

Photo Parameters:

Flux = 6119 lm Eff. : 37.64 lm/W Fe = 21.68 W

Electrical parameters:

V = 219.68 V I = 0.7486 A P = 162.6 W PF = 0.9885

LEVEL:OUT WHITE:OUT

Status: Integral T = 8 ms Ip = 42286 (65%)

Model:LIGHT
Tester:DAMIN
Temperature:25.3Deg
Manufacturer:EVERFINE

Number:4
Date:2024-01-03 11:19
Humidity:65.0%
Remarks:---

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FLAT & FLYT 160 590NM AMBER AND RED - FIXTURE TEST REPORT - FROSTED POLYCARBONATE LENS

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		368.3 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	158.3V x 157.5H
	At 50% of Imax	109.4V x 108.0H
	At 90% of Imax	45.1V x 44.3H
Beam Flux	Total	999.9 lumens per klm.
	To 10% of Imax	983.6 lumens per klm.
	To 50% of Imax	716.7 lumens per klm.
	To 90% of Imax	164.4 lumens per klm.

Light Output Ratio:	100.0%
Luminaire Power:	153.1 W
90% Beam Spread	45.1V x 44.3H
50% Beam Lumens	716.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %
Luminaire Efficiency(Light Output Ratio)	100.0 %

H(□) Range:-90 - 90DEG H(□)Interval:1.0DEG Test
Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

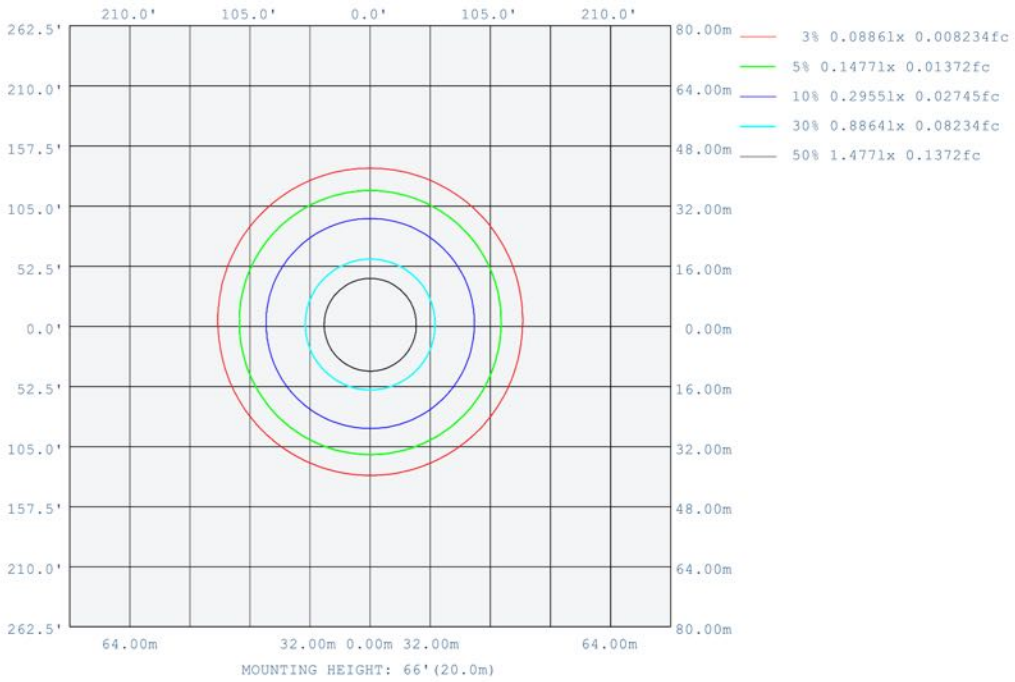
H(□) Range:-90 - 90DEG H(□)Interval:1.0DEG Test
Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

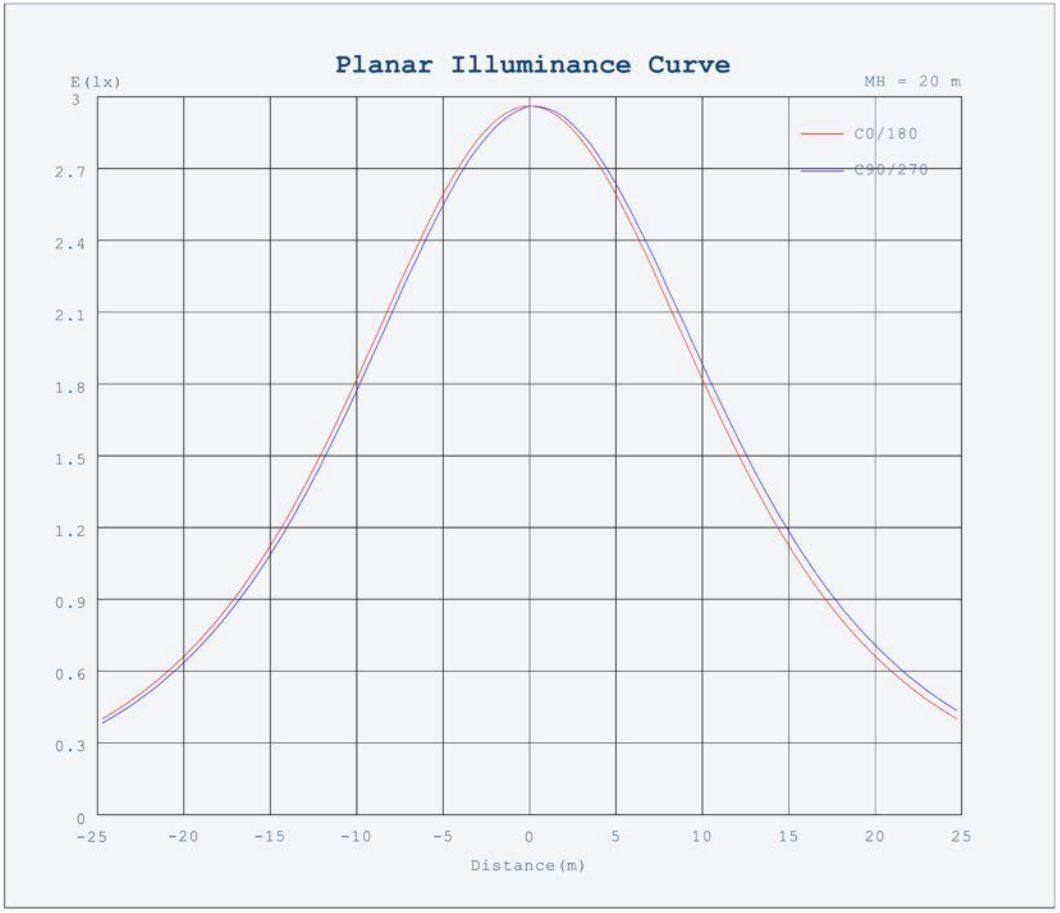
AccessFixtures
High-Performance Lighting Solutions

ISOLUX DIAGRAM

Test:U:233.5V I:0.6663A P:153.1W PF:0.984 Freq:49.96Hz Lamp Flux:3218.12x1 lm		
NAME:AF88X160-amber 590nm-red-frosted PC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



Planar Illuminance Curve



H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

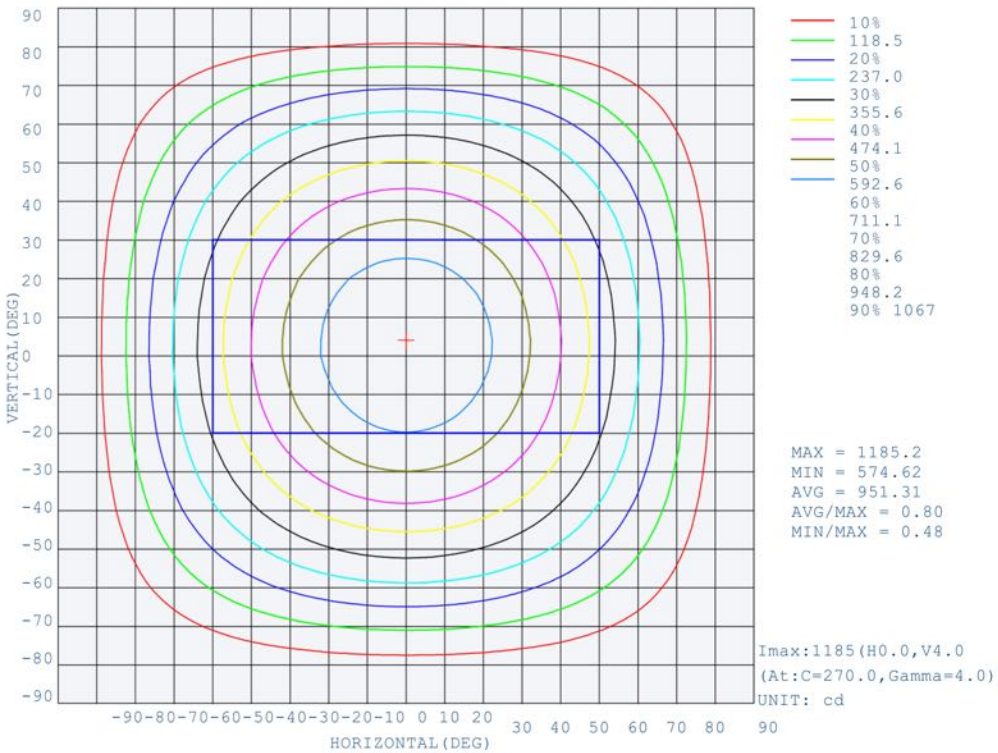
H(□) Range:-90 - 90DEG H(
)Interval:1.0DEG Test
Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

AccessFixtures
High-Performance Lighting Solutions

ISOCANDELA DIAGRAM

Test:U:233.5V I:0.6663A P:153.1W PF:0.984 Freq:49.96Hz Lamp Flux:3218.12x1 lm		
NAME:AF88X160-amber 590nm-red-frosted PC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

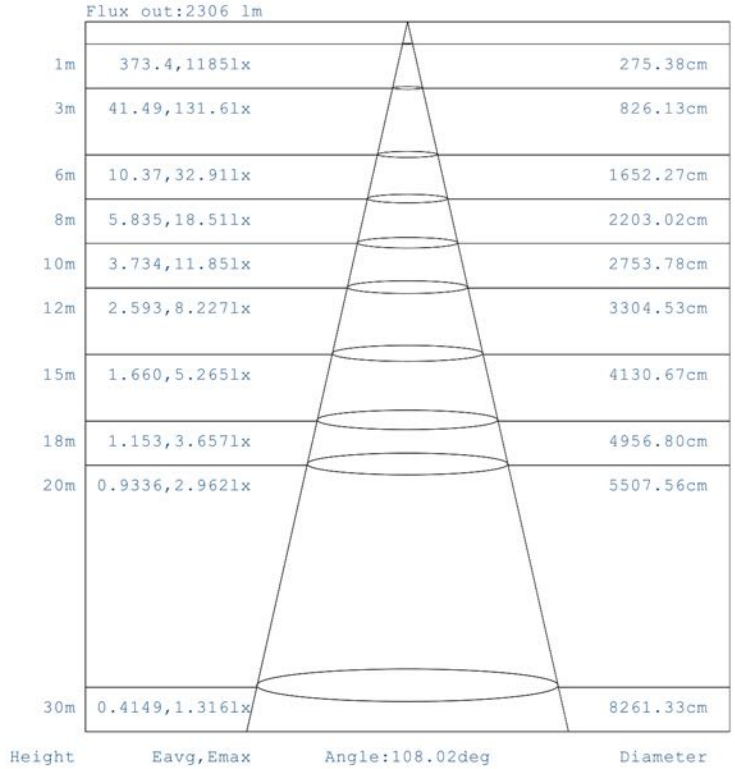


H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

AAI Figure

Test:U:233.5V I:0.6663A P:153.1W PF:0.984 Freq:49.96Hz Lamp Flux:3218.12x1 lm		
NAME:AF88X160-amber 590nm-red-frosted PC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



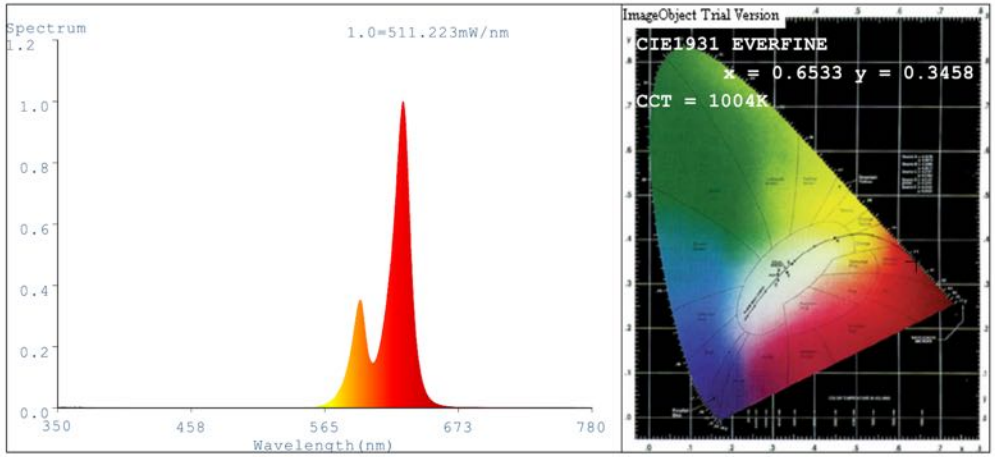
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□)Interval:1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Guohong
Test Date:2024-01-02

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
TestSystem:EVERFINEGO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
TestDistance:8.365m [K=1.0000]
Remarks:

AccessFixtures
High-Performance Lighting Solutions

SPECTRUM TEST REPORT - FLAT & FLYT 120 590NM AMBER AND RED - FROSTED POLYCARBONATE LENS



Color Parameters:

Chromaticity Coordinate:x=0.6533 y=0.3458/u'=0.4472 v'=0.5327
CCT=1004K(Duv=-0.0004) Dominant WL:Ld =606.5nm Purity=99.8%
Ratio:R=62.2% G=37.8% B=0.0% Peak WL:Lp=628.2nm FWHM=16.2nm
Render Index:Ra=42.3 CRI=44.1 AvgR=42.6
R1=35 R2=80 R3=55 R4=9 R5=29 R6=90 R7=41 R8=0 R9=0 R10=7 R11=8
R12=78 R13=43 R14=77 R15=22

Photo Parameters:

Flux = 3696 lm Eff. : 30.28 lm/W Fe = 12.97 W

Electrical parameters:

V = 219.61 V I = 0.5659 A P = 122.1 W PF = 0.9823

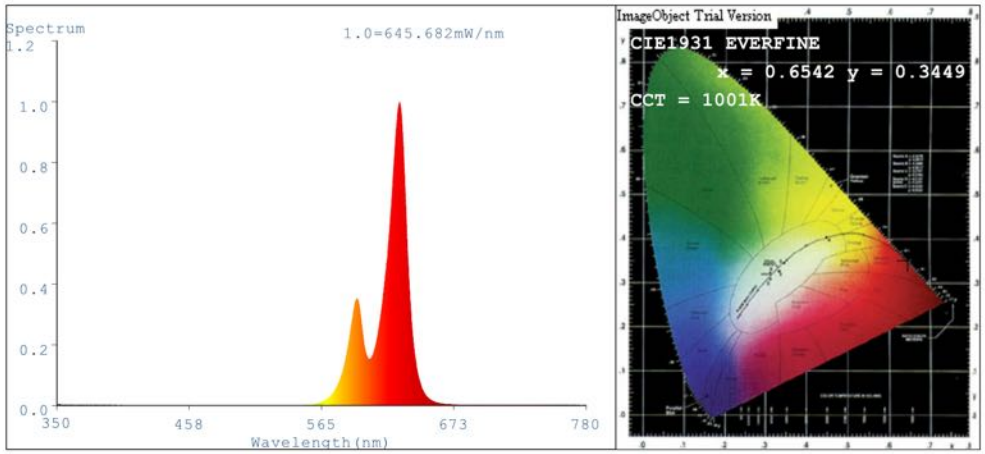
LEVEL:OUT WHITE:OUT

Status: Integral T = 11 ms Ip = 35150 (54%)

Model:LIGHT
Tester:DAMIN
Temperature:25.3Deg
Manufacturer:EVERFINE

Number:2
Date:2024-01-03 11:15
Humidity:65.0%
Remarks:---

SPECTRUM TEST REPORT - FLAT & FLYT 160 590NM AMBER AND RED - FROSTED POLYCARBONATE LENS



Color Parameters:

Chromaticity Coordinate:x=0.6542 y=0.3449/u'=0.4488 v'=0.5324
CCT=1001K(Duv=-0.0010) Dominant WL:Ld =606.7nm Purity=99.8%
Ratio:R=62.7% G=37.2% B=0.0% Peak WL:Lp=628.5nm FWHM=16.7nm
Render Index:Ra=42.4 CRI=44.2 AvgR=42.7
R1=35 R2=8 R3=5 R4=9 R5=30 R6=90 R7=41 R8=0 R9=0 R10=73 R11=9
R12=78 R13=43 R14=77 R15=21

Photo Parameters:

Flux = 4702 lm Eff. : 28.84 lm/W Fe = 16.69 W

Electrical parameters:

V = 219.67 V I = 0.7507 A P = 163.0 W PF = 0.9886

LEVEL:OUT WHITE:OUT

Status: Integral T = 11 ms Ip = 44375 (68%)

Model:LIGHT
Tester:DAMIN
Temperature:25.3Deg
Manufacturer:EVERFINE

Number:1
Date:2024-01-03 11:12
Humidity:65.0%
Remarks:---