

Spectrum Test Report

Sample : A19-5-E26-850-DIM
 Specification : 120V/5.5W/450IM
 Sample No. :
 Manufacturer : RAB LIGHTING INC

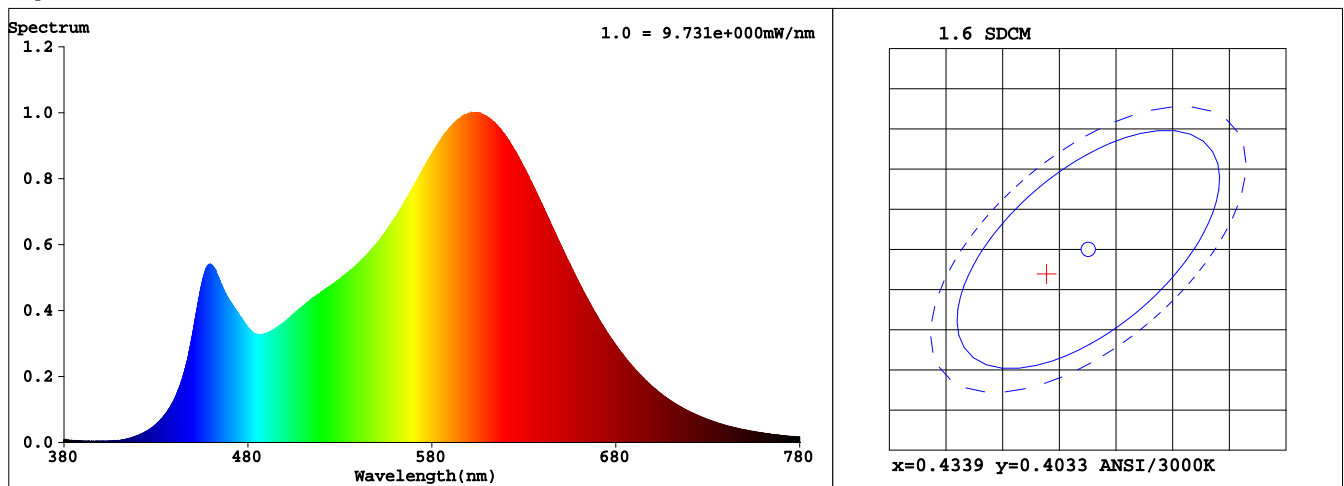
Date : 2017-12-12 16:39:15
 Sam. Status :
 Instrument : HaasSuite(EVERFINE)
 Test by :
 Assessor : damin

Test Condition

Temperature : 24.2Deg
 WL Range : 380nm-780nm
 Test Mode : Fast Test

RH : 50%
 IP : 55215 (84%)
 T : 200 ms
 Delicacy : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4307$ $y = 0.4009$ / $u' = 0.2479$ $v' = 0.5192$ ($duv = -4.07e-04$)

CCT= 3081K Prcp WL: $L_d = 582.6nm$ Purity=49.6%

Peak WL: $L_p = 604nm$ FWHM: =127.5nm Ratio:R=22.8% G=73.7% B=3.5%

Render Index: $R_a = 84.1$

R1 =84 R2 =96 R3 =91 R4 =80 R5 =85 R6 =95 R7 =81
 R8 =61 R9 =16 R10=91 R11=80 R12=77 R13=88 R14=96 R15=77

Photometric & Radiometric Parameters

Flux = 490.49 lm Eff. : 85.82 lm/W $F_e = 1.5287 W$

Flux of emitted photons($\mu mol/s$):7.4088 Flu. and blue light ratio:6.990 Fluorescent eff.:215.3

Electrical parameters

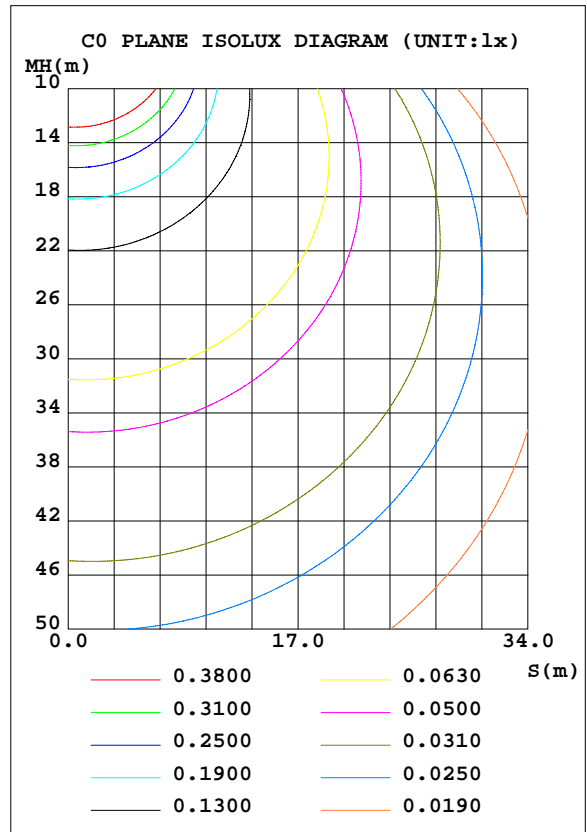
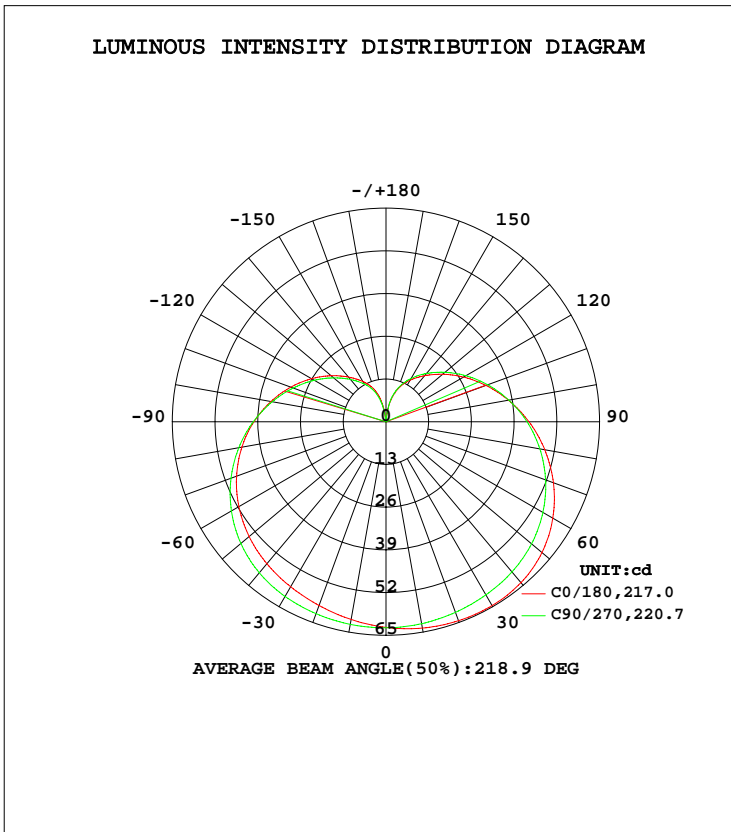
V = 120.1 V I = 0.05177 A P = 5.715 W PF = 0.9196

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.0520A P:5.746W PF:0.9215 Freq:59.98Hz Lamp Flux:502.916x1 lm		
NAME: A19-5-E26-850-DIM	TYPE:LED	WEIGHT:
SPEC.:120V/5.5W/450LM	DIM.:	SERIAL No.:A1719791A001
MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.52 lm/W			
MODEL		I _{max} (cd)	64.62	S/MH(C0/180)	1.41
NOMINAL POWER(W)	5.5	LOR(%)	100.0	S/MH(C90/270)	1.49
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	502.92	η UP, DN(C0-180)	16.9,34.8
NOMINAL FLUX(lm)	502.916	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	15.7,32.7
LAMPS INSIDE	1	η up(%)	32.5	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	η down(%)	67.5	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:陈庆玲
 Test Date:2017-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.363T
 Humidity:40%
 Test Distance:5.060m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	63.76	62.40	61.10	62.59				0- 10	5.971	5.971	1.19,1.19
20	64.45	61.74	59.52	62.15				10- 20	17.63	23.61	4.69,4.69
30	64.59	60.83	58.00	61.40				20- 30	28.50	52.11	10.4,10.4
40	63.91	59.65	56.40	60.00				30- 40	38.09	90.20	17.9,17.9
50	61.94	57.81	54.36	57.63				40- 50	45.70	135.9	27,27
60	58.62	55.15	51.69	54.31				50- 60	50.67	186.6	37.1,37.1
70	54.21	51.67	48.38	50.17				60- 70	52.67	239.2	47.6,47.6
80	49.05	47.53	44.51	45.47				70- 80	51.73	291.0	57.9,57.9
90	43.52	42.93	40.19	40.37				80- 90	48.25	339.2	67.5,67.5
100	37.86	37.97	35.55	35.18				90-100	42.78	382.0	76,76
110	32.39	32.97	30.84	30.08				100-110	36.09	418.1	83.1,83.1
120	27.23	28.08	26.21	25.25				110-120	28.93	447.0	88.9,88.9
130	22.52	23.45	21.82	20.81				120-130	21.92	468.9	93.2,93.2
140	18.31	19.20	17.79	16.81				130-140	15.57	484.5	96.3,96.3
150	14.63	15.21	14.18	13.31				140-150	10.19	494.7	98.4,98.4
160	10.65	10.99	10.42	9.510				150-160	5.819	500.5	99.5,99.5
170	4.897	5.023	4.040	2.573				160-170	2.260	502.8	100,100
180	0.0337	0.0414	0.0307	0.0368				170-180	0.1330	502.9	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 112.25 lm

%lum = 22.3%
%lamp = 22.3%

Conical surface Flux(120deg): 186.57 lm

%lum = 37.1%
%lamp = 37.1%

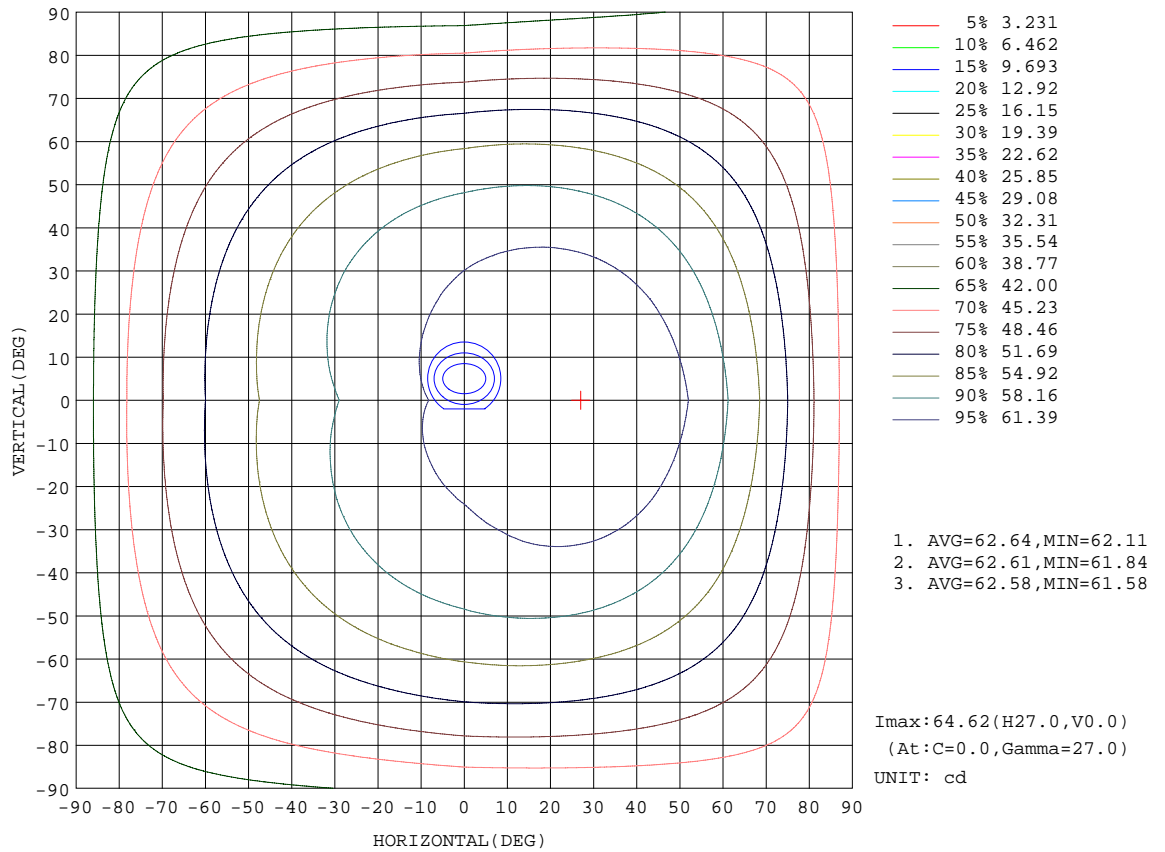
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:陈庆玲
Test Date:2017-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.363T
Humidity:40%
Test Distance:5.060m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.0520A P:5.746W PF:0.9215 Freq:59.98Hz Lamp Flux:502.916x1 lm		
NAME: A19-5-E26-850-DIM	TYPE:LED	WEIGHT:
SPEC.:120V/5.5W/450LM	DIM.:	SERIAL No.:A1719791A001
MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:



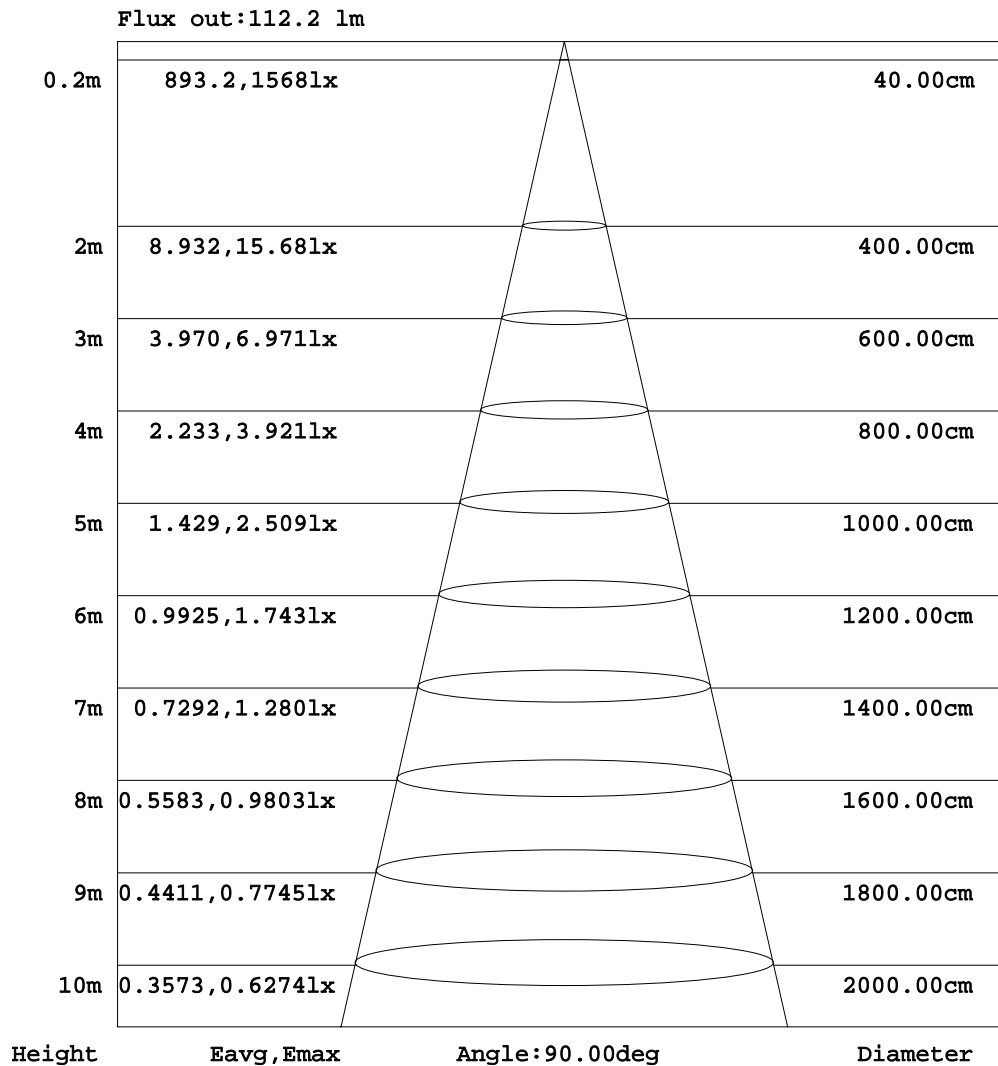
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:陈庆玲
 Test Date:2017-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.363T
 Humidity:40%
 Test Distance:5.060m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.0V I:0.0520A P:5.746W PF:0.9215 Freq:59.98Hz Lamp Flux:502.916x1 lm		
NAME: A19-5-E26-850-DIM	TYPE:LED	WEIGHT:
SPEC.:120V/5.5W/450LM	DIM.:	SERIAL No.:A1719791A001
MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:



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

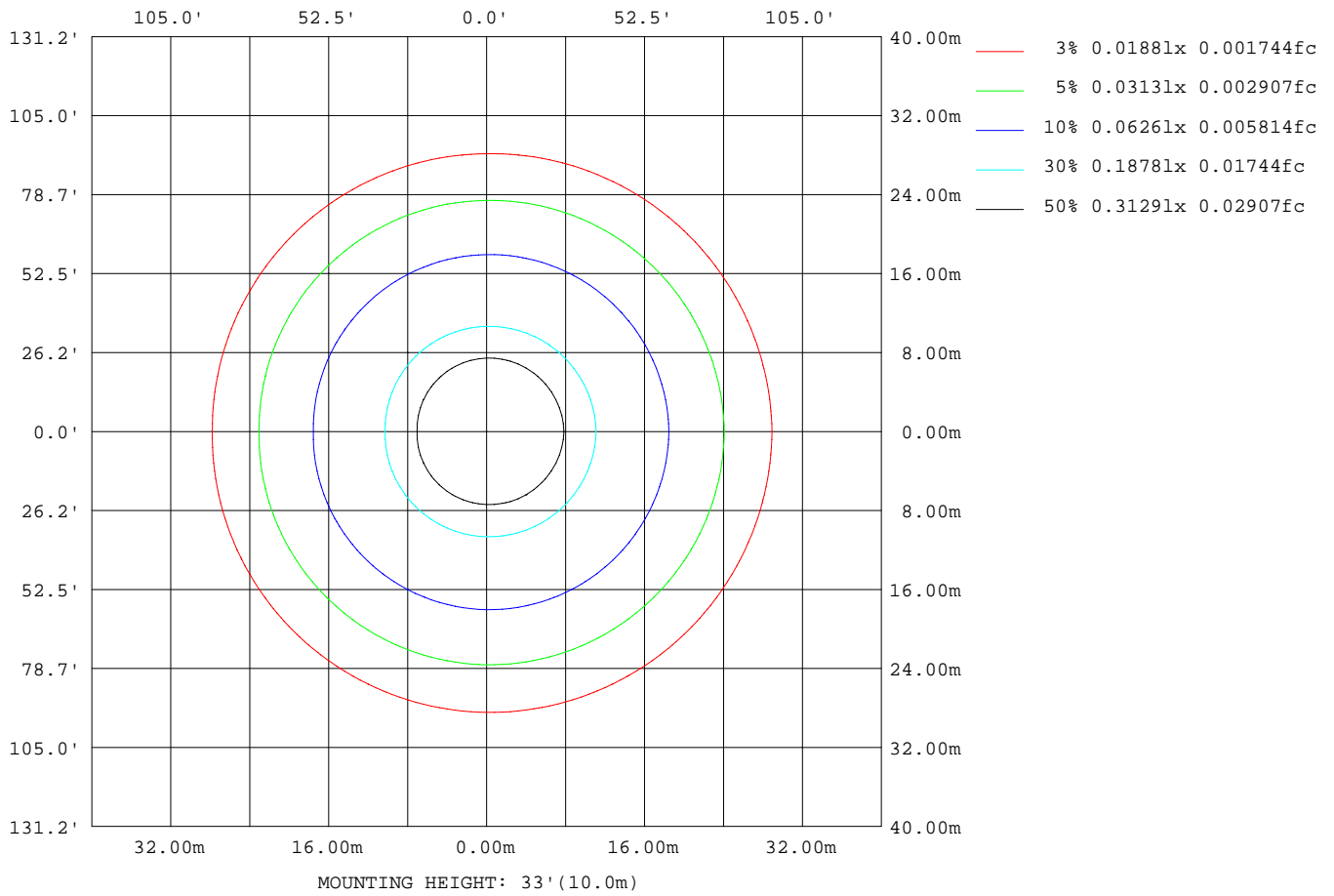
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:陈庆玲
 Test Date:2017-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.363T
 Humidity:40%
 Test Distance:5.060m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

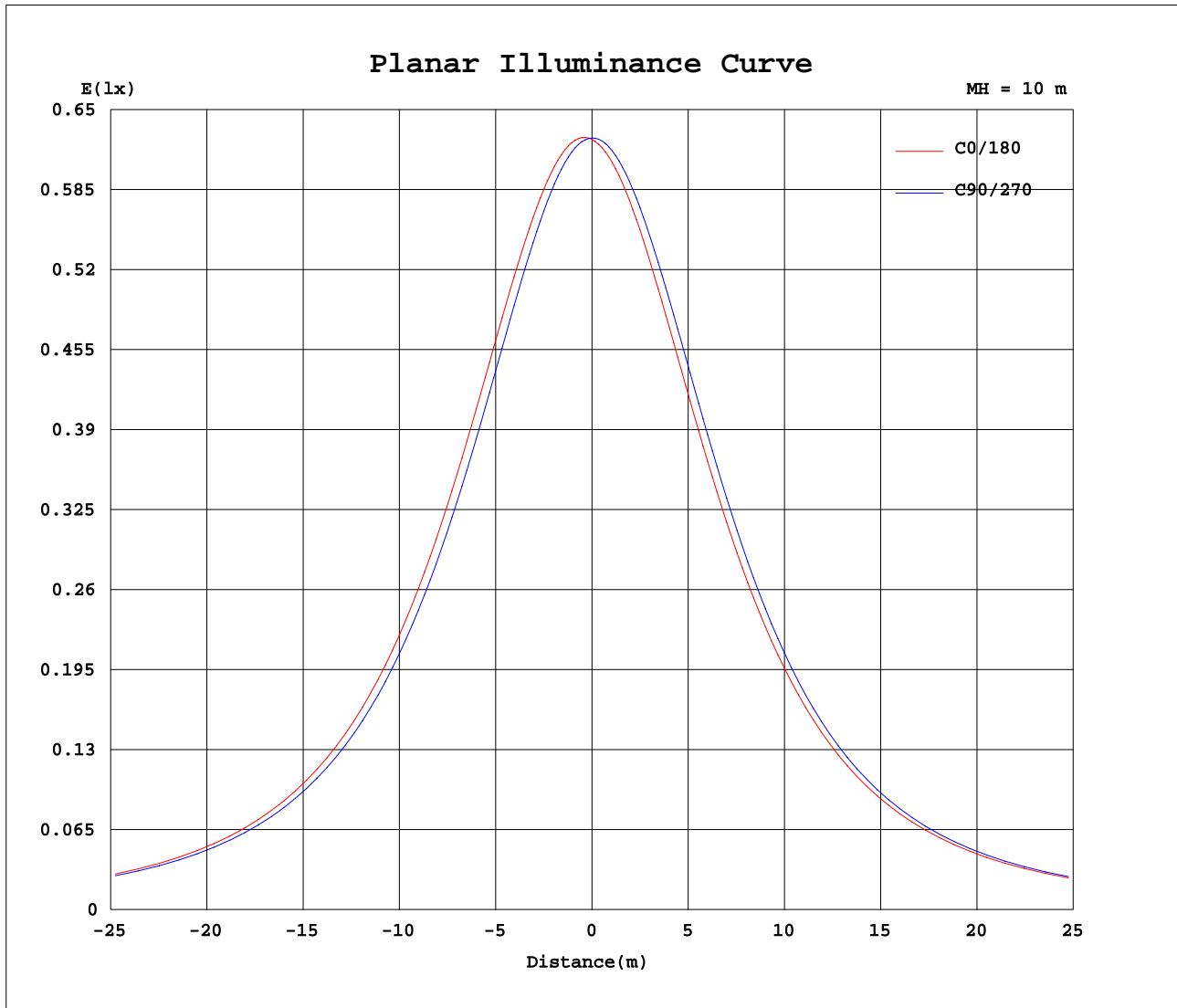
Test:U:120.0V I:0.0520A P:5.746W PF:0.9215 Freq:59.98Hz Lamp Flux:502.916x1 lm		
NAME: A19-5-E26-850-DIM	TYPE:LED	WEIGHT:
SPEC.:120V/5.5W/450LM	DIM.:	SERIAL No.:A1719791A001
MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 陈庆玲
 Test Date: 2017-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.363T
 Humidity: 40%
 Test Distance: 5.060m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 陈庆玲
 Test Date: 2017-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.363T
 Humidity: 40%
 Test Distance: 5.060m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.0520A P:5.746W PF:0.9215 Freq:59.98Hz Lamp Flux:502.916x1 lm		
NAME: A19-5-E26-850-DIM	TYPE:LED	WEIGHT:
SPEC.:120V/5.5W/450lm	DIM.:	SERIAL No.:A1719791A001
MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270															
0	62.6	62.7	62.6	62.7															
5	63.2	62.6	61.9	62.7															
10	63.8	62.4	61.1	62.6															
15	64.2	62.1	60.3	62.4															
20	64.4	61.7	59.5	62.2															
25	64.6	61.3	58.7	61.8															
30	64.6	60.8	58.0	61.4															
35	64.4	60.3	57.2	60.8															
40	63.9	59.7	56.4	60.0															
45	63.1	58.8	55.4	58.9															
50	61.9	57.8	54.4	57.6															
55	60.5	56.6	53.1	56.1															
60	58.6	55.2	51.7	54.3															
65	56.5	53.5	50.1	52.3															
70	54.2	51.7	48.4	50.2															
75	51.7	49.7	46.5	47.9															
80	49.1	47.5	44.5	45.5															
85	46.3	45.3	42.4	43.0															
90	43.5	42.9	40.2	40.4															
95	40.7	40.5	37.9	37.8															
100	37.9	38.0	35.5	35.2															
105	35.1	35.5	33.2	32.6															
110	32.4	33.0	30.8	30.1															
115	29.8	30.5	28.5	27.6															
120	27.2	28.1	26.2	25.3															
125	24.8	25.7	24.0	23.0															
130	22.5	23.4	21.8	20.8															
135	20.3	21.3	19.7	18.7															
140	18.3	19.2	17.8	16.8															
145	16.4	17.2	15.9	15.0															
150	14.6	15.2	14.2	13.3															
155	12.8	13.2	12.4	11.6															
160	10.6	11.0	10.4	9.51															
165	8.06	8.50	7.82	6.89															
170	4.90	5.02	4.04	2.57															
175	0.04	0.04	0.02	0.02															
180	0.03	0.04	0.03	0.04															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:陈庆玲
 Test Date:2017-12-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.363T
 Humidity:40%
 Test Distance:5.060m [K=1.0000]
 Remarks: