

GONIOPHOTOMETERS SYSTEM TEST REPORT

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**LED Downlight Sense Series S45R1-4W-930-24**

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Light Output Ratio:	100.0%	
Luminaire Power:	5.128 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

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C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2018-01-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

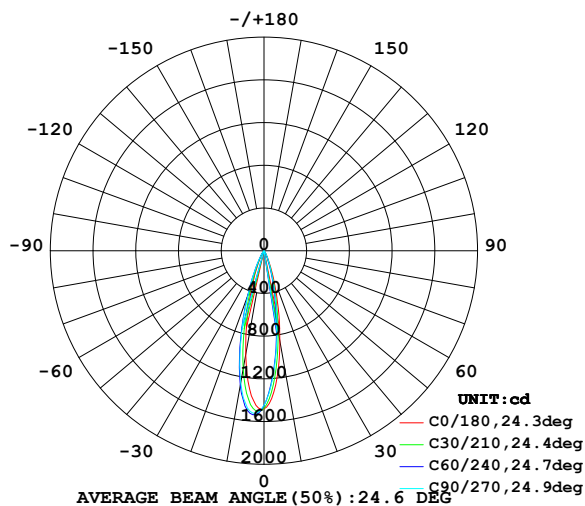
GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

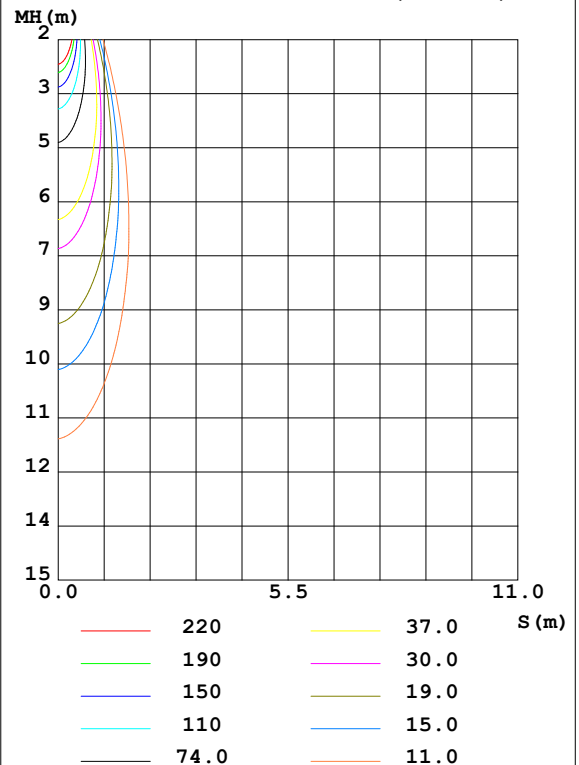
Test:U:220.7V I:0.0304A P:5.128W PF:0.7640 Lamp Flux:351.888x1 lm		
NAME: S45R1-4W-930-24	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 55mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.62 lm/W			
MODEL	CREE-3000K	I <sub>max</sub> (cd)	1539	S/MH (C0/180)	0.44
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.52
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	351.89	$\eta$ UP, DN (C0-180)	0.0, 40.6
NOMINAL FLUX (lm)	351.888	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 59.4
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2018-01-16

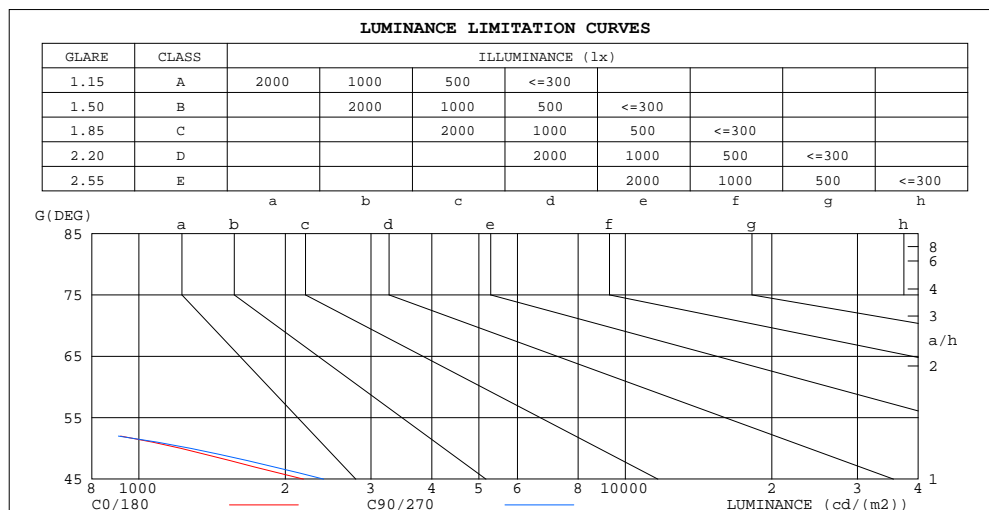
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

## GONIOPHOTOMETERS SYSTEM TEST REPORT

### ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	859.9	744.3	701.7	838.8	987.8	1175	1256	1015	0- 10	112.9	112.9	32.1,32.1
20	234.1	174.7	182.4	224.7	284.3	372.0	437.5	313.1	10- 20	153.6	266.5	75.7,75.7
30	49.78	35.47	44.21	48.21	58.28	66.27	82.44	71.40	20- 30	61.77	328.3	93.3,93.3
40	11.82	10.07	10.78	12.21	13.89	15.08	18.53	15.49	30- 40	18.27	346.6	98.5,98.5
50	1.864	1.786	1.952	2.395	2.132	2.128	2.414	2.065	40- 50	4.213	350.8	99.7,99.7
60	0.3063	0.3146	0.3304	0.3190	0.3015	0.2975	0.3252	0.2844	50- 60	0.7975	351.6	99.9,99.9
70	0.1292	0.1311	0.1445	0.1354	0.1223	0.1247	0.1027	0.1138	60- 70	0.1975	351.8	100,100
80	0.0438	0.0284	0.0525	0.0328	0.0306	0.0438	0.0306	0.0416	70- 80	0.0812	351.9	100,100
90	0	0	0.0022	0	0	0	0	0	80- 90	0.0156	351.9	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	95	95
80	106	127
75	128	146
70	159	178
65	190	218
60	258	278
55	506	453
50	1221	1279
45	2180	2397

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2018-01-16

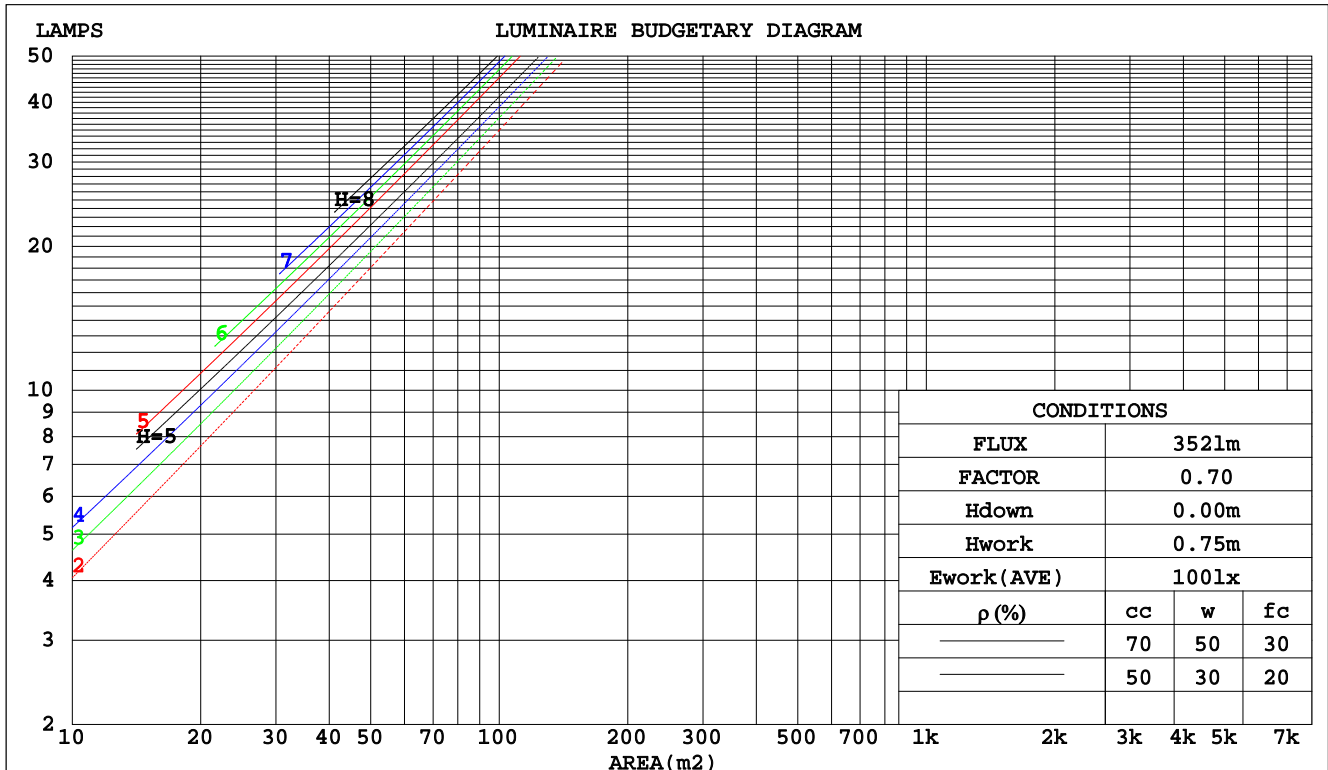
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 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0304A P:5.128W PF:0.7640 Lamp Flux:351.888x1 lm		
NAME: S45R1-4W-930-24	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 55mm*H60mm	
MFR.: NEKO LIGHTING AG		

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.00	1.02	1.00	.98	.00	.98	.96	.97	.96	.94	.93
3.0	1.02	.99	.96	1.01	.98	.95	.99	.96	.94	.96	.94	.92	.94	.92	.91	.89
4.0	.98	.94	.91	.97	.93	.90	.95	.92	.89	.93	.91	.88	.92	.89	.87	.86
5.0	.94	.90	.87	.93	.90	.87	.92	.88	.86	.90	.87	.85	.89	.86	.84	.83
6.0	.91	.87	.83	.90	.86	.83	.89	.85	.83	.88	.84	.82	.86	.84	.82	.81
7.0	.88	.83	.80	.87	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.78
8.0	.85	.81	.78	.84	.80	.77	.83	.80	.77	.82	.79	.77	.82	.79	.77	.76
9.0	.82	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.73
10.0	.80	.75	.73	.79	.75	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71



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Temperature:25.3DEG  
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
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## WEC AND CCEC

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$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.140	.080	.025	.134	.076	.024	.121	.070	.022	.110	.063	.020	.099	.058	.019		
2.0	.131	.072	.022	.125	.069	.021	.115	.064	.020	.105	.059	.019	.097	.055	.017		
3.0	.122	.065	.019	.118	.063	.019	.109	.059	.018	.101	.055	.017	.094	.052	.016		
4.0	.115	.060	.018	.111	.058	.017	.104	.055	.016	.097	.052	.016	.091	.049	.015		
5.0	.108	.055	.016	.105	.054	.016	.099	.052	.015	.093	.049	.015	.088	.047	.014		
6.0	.103	.052	.015	.100	.051	.015	.095	.049	.014	.090	.047	.014	.085	.045	.013		
7.0	.098	.048	.014	.095	.048	.014	.091	.046	.013	.086	.044	.013	.082	.043	.013		
8.0	.093	.046	.013	.091	.045	.013	.087	.044	.012	.083	.042	.012	.080	.041	.012		
9.0	.089	.043	.012	.087	.043	.012	.084	.041	.012	.080	.040	.012	.077	.039	.011		
10.0	.086	.041	.011	.084	.041	.011	.081	.040	.011	.078	.039	.011	.075	.038	.011		

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.136	.113	.095	.117	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.113	.086	.065	.097	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.091	.061	.040	.078	.053	.035	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.085	.055	.035	.074	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.080	.051	.031	.069	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0304A P:5.128W PF:0.7640 Lamp Flux:351.888x1 lm										
NAME: S45R1-4W-930-24					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: $\phi$ 55mm*H60mm					
MFR.: NEKO LIGHTING AG										
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	6.1	6.8	6.3	6.9	7.1	5.7	6.4	5.9	6.5	6.7
3H	6.0	6.6	6.2	6.8	7.0	5.6	6.2	5.8	6.4	6.6
4H	5.9	6.5	6.1	6.7	6.9	5.5	6.1	5.8	6.3	6.5
6H	5.8	6.4	6.1	6.6	6.8	5.4	6.0	5.7	6.2	6.4
8H	5.8	6.3	6.0	6.5	6.8	5.4	5.9	5.7	6.2	6.4
12H	5.7	6.2	6.0	6.5	6.8	5.3	5.9	5.6	6.1	6.4
4H 2H	5.9	6.5	6.1	6.7	6.9	5.5	6.1	5.7	6.3	6.5
3H	5.7	6.2	6.0	6.5	6.8	5.3	5.9	5.6	6.1	6.4
4H	5.6	6.1	6.0	6.4	6.7	5.2	5.7	5.6	6.0	6.3
6H	5.5	6.0	5.9	6.3	6.6	5.2	5.6	5.5	5.9	6.2
8H	5.5	5.9	5.9	6.2	6.6	5.1	5.5	5.5	5.8	6.2
12H	5.4	5.8	5.8	6.2	6.5	5.0	5.4	5.4	5.8	6.2
8H 4H	5.5	5.9	5.9	6.2	6.6	5.1	5.5	5.5	5.8	6.2
6H	5.4	5.7	5.8	6.1	6.5	5.0	5.3	5.4	5.7	6.1
8H	5.3	5.6	5.8	6.0	6.5	4.9	5.2	5.4	5.6	6.1
12H	5.3	5.5	5.7	5.9	6.4	4.9	5.1	5.3	5.6	6.0
12H 4H	5.4	5.8	5.8	6.2	6.5	5.0	5.4	5.4	5.8	6.2
6H	5.3	5.6	5.8	6.0	6.5	4.9	5.2	5.4	5.6	6.1
8H	5.3	5.5	5.7	5.9	6.4	4.9	5.1	5.3	5.6	6.0
Variations with the observer position at spacings:										
S = 1.0H	+ 4.0 / -12.5					+ 3.9 / -11.7				
1.5H	+ 6.3 / -11.4					+ 6.1 / -11.2				
2.0H	+ 5.9 / - 6.3					+ 6.5 / - 6.5				

CIE Pub.117 Corrected 351.9 lm Total Lamp Luminous Flux. ( $8\log(F/F_0) = -3.6$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
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Temperature:25.3DEG  
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$\gamma$  Range: 0 - 90DEG  
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Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0304A P:5.128W PF:0.7640 Lamp Flux:351.888x1 lm		
NAME: S45R1-4W-930-24	TYPE:Downlight	SERIAL No.:
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MFR.: NEKO LIGHTING AG		

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	109	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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## ISOCANDELA DIAGRAM

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SPEC.:3000K	DIM.: $\phi$ 55mm*H60mm	
MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

349.57 lm

%lum = 99.3%

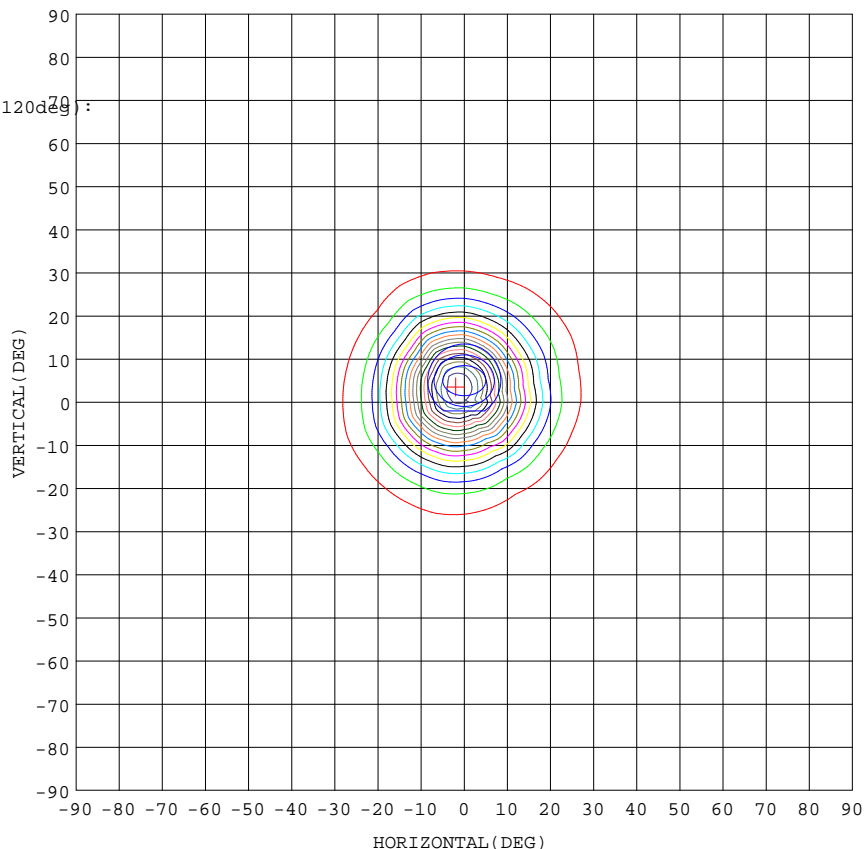
%lamp = 99.3%

Conical surface Flux(120deg):

351.59 lm

%lum = 99.9%

%lamp = 99.9%



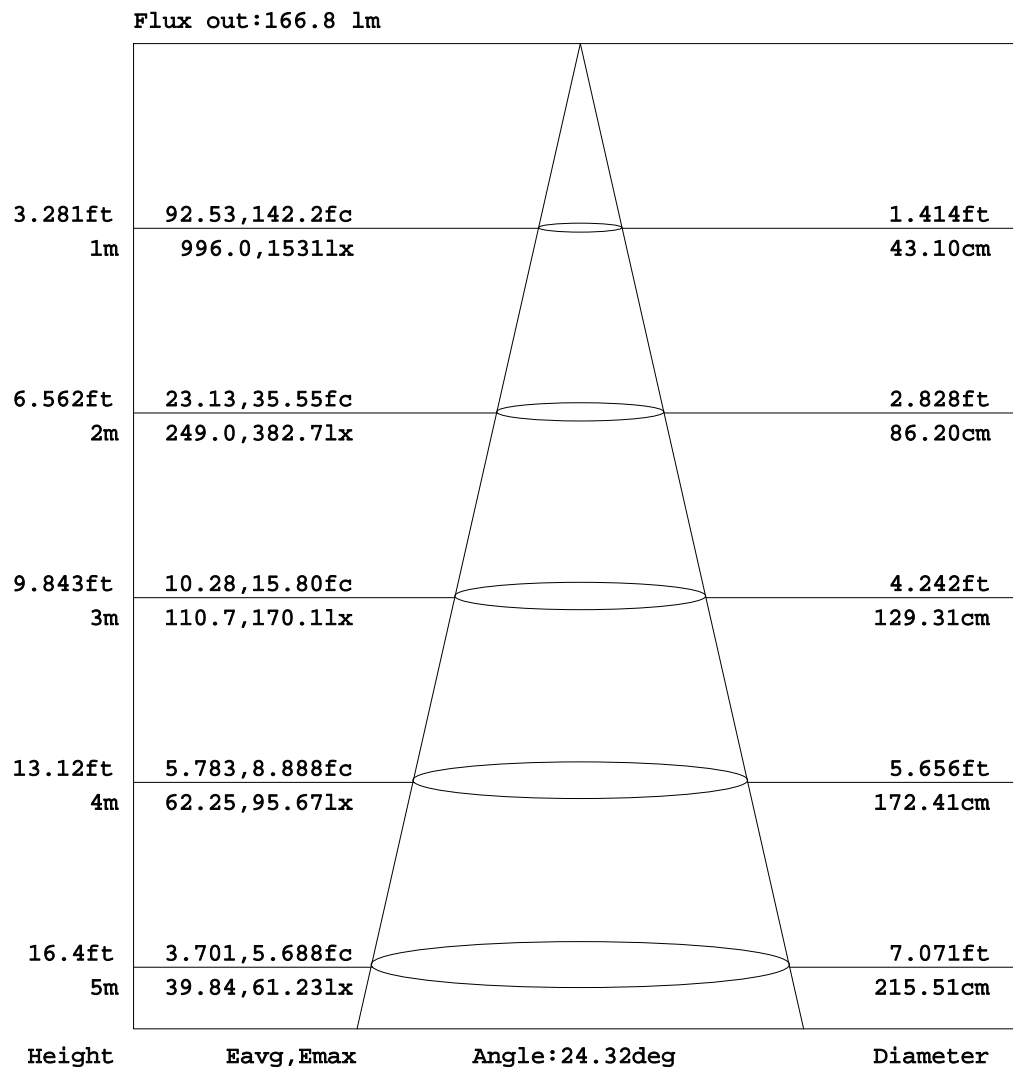
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AAI Figure

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SPEC.:3000K	DIM.: $\phi$ 55mm*H60mm	
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Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

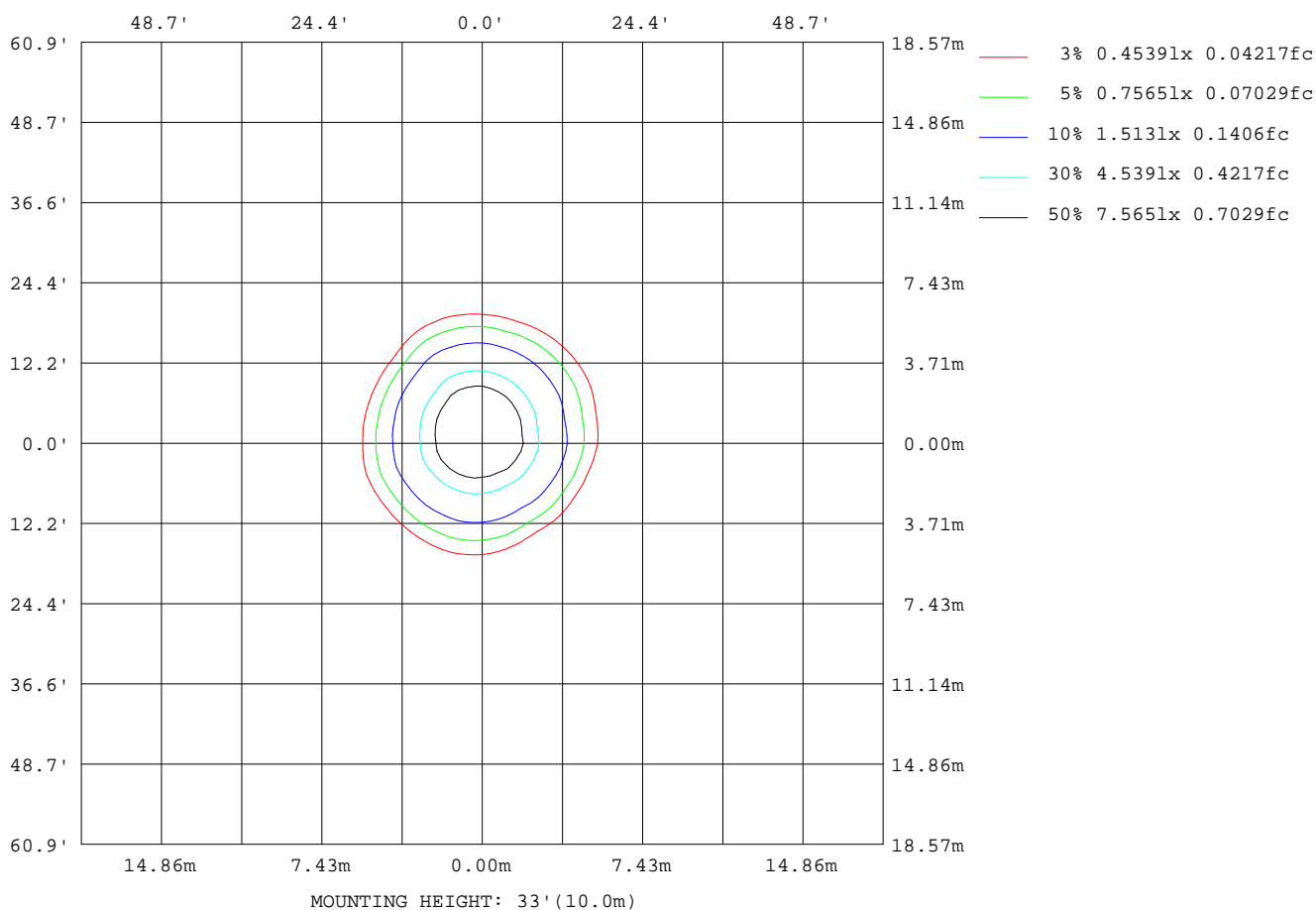
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# GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOLUX DIAGRAM

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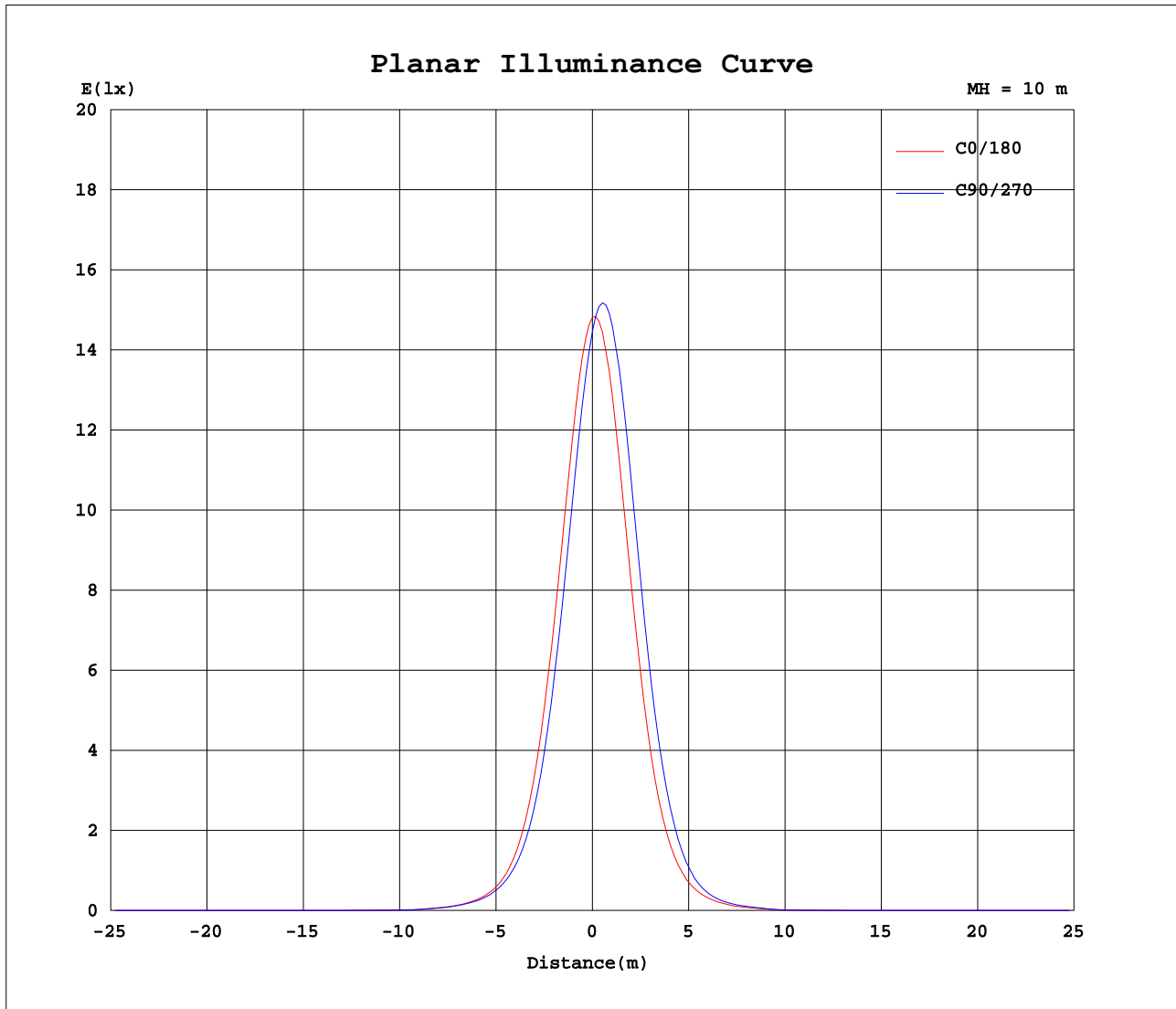


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Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2018-01-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

```

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	1481	1481	1476	1479	1450	1453	1446	1452	1448	1451
3.0	1386	1363	1330	1319	1256	1263	1266	1294	1313	1352
6.0	1189	1150	1102	1082	1008	1019	1028	1069	1100	1159
9.0	943.7	899.5	845.5	828.0	756.0	769.5	779.7	823.7	857.1	921.9
12.0	699.4	653.8	606.3	589.1	531.8	544.7	558.4	594.6	623.9	679.5
15.0	485.9	445.3	404.2	391.9	350.1	365.4	376.9	404.0	425.4	467.2
18.0	319.0	287.8	256.2	244.9	219.5	234.4	245.3	263.8	277.2	304.5
21.0	200.0	177.0	155.1	147.8	132.7	147.3	157.6	170.1	176.7	192.4
24.0	123.3	105.1	91.72	87.91	80.02	91.90	102.0	109.8	112.2	119.4
27.0	76.99	63.34	55.26	54.30	49.79	58.45	67.15	71.81	72.06	74.72
30.0	49.78	40.56	35.68	35.47	32.68	37.82	44.21	47.34	46.51	48.21
33.0	32.51	27.43	24.60	24.37	23.08	25.87	30.31	32.19	31.39	32.17
36.0	21.02	18.27	16.67	16.51	15.38	16.71	19.38	20.71	20.14	20.76
39.0	14.03	12.63	11.76	11.68	10.70	11.40	12.73	13.52	13.37	13.86
42.0	7.123	6.672	6.268	6.468	5.563	6.209	7.022	7.785	7.945	8.539
45.0	3.660	3.517	3.393	3.466	3.265	3.608	4.026	4.432	4.547	4.722
48.0	2.446	2.378	2.295	2.339	2.168	2.380	2.654	2.968	3.063	3.186
51.0	1.595	1.568	1.510	1.537	1.363	1.506	1.631	1.833	1.909	2.034
54.0	0.8705	0.8665	0.8310	0.8316	0.7282	0.7876	0.8161	0.9123	0.9739	1.087
57.0	0.3751	0.3693	0.3940	0.3824	0.3873	0.3780	0.3983	0.3846	0.4058	0.4128
60.0	0.3063	0.2993	0.3282	0.3146	0.3152	0.3059	0.3304	0.3168	0.3326	0.3190
63.0	0.2320	0.2206	0.2474	0.2338	0.2337	0.2337	0.2539	0.2381	0.2605	0.2447
66.0	0.1794	0.1705	0.1947	0.1836	0.2035	0.1879	0.2100	0.1901	0.2057	0.1858
69.0	0.1444	0.1332	0.1597	0.1442	0.1533	0.1398	0.1620	0.1485	0.1685	0.1486
72.0	0.1116	0.0961	0.1182	0.1005	0.1160	0.1005	0.1226	0.1049	0.1226	0.1071
75.0	0.0788	0.0656	0.0854	0.0699	0.0854	0.0677	0.0898	0.0721	0.0919	0.0743
78.0	0.0569	0.0393	0.0613	0.0459	0.0613	0.0415	0.0678	0.0437	0.0657	0.0480
81.0	0.0394	0.0262	0.0416	0.0283	0.0394	0.0262	0.0438	0.0284	0.0460	0.0284
84.0	0.0241	0.0043	0.0263	0.0087	0.0219	0.0043	0.0241	0.0087	0.0285	0.0087
87.0	0.0088	0	0.0110	0	0.0088	0	0.0110	0	0.0132	0
90.0	0	0	0	0	0	0	0.0022	0	0	0
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1451	1451	1481	1481	1476	1479	1450	1453	1446	1452
3.0	1381	1416	1450	1473	1500	1520	1537	1537	1524	1502
6.0	1207	1277	1301	1344	1396	1438	1503	1501	1482	1435
9.0	975.2	1054	1072	1128	1203	1253	1352	1347	1327	1262
12.0	728.5	802.8	817.3	873.3	953.2	1004	1115	1111	1090	1017
15.0	506.9	568.9	579.1	627.8	694.2	738.1	843.6	840.3	821.6	752.6
18.0	330.8	377.2	384.0	415.8	465.3	502.1	591.8	592.7	575.0	521.0
21.0	207.2	238.3	243.0	261.5	292.3	317.6	387.1	389.8	377.8	337.4
24.0	128.3	148.1	149.2	157.5	173.9	191.3	241.9	243.1	233.6	209.4
27.0	80.42	91.88	91.92	93.82	100.5	110.9	146.7	146.8	141.1	125.2
30.0	51.38	58.77	58.28	58.11	60.50	66.27	85.25	87.80	82.44	74.85
33.0	33.94	38.53	37.62	37.15	38.04	39.60	50.92	53.14	49.80	45.32
36.0	21.83	24.70	24.00	23.75	24.38	25.30	31.47	33.48	31.80	28.79
39.0	14.47	16.09	15.93	16.02	16.43	17.17	20.66	22.06	21.26	19.47
42.0	9.053	10.18	9.383	9.406	9.808	10.14	12.97	13.20	12.38	10.64
45.0	4.754	5.055	4.495	4.382	4.466	4.467	5.632	5.242	5.019	4.582
48.0	3.138	3.136	2.873	2.798	2.823	2.835	3.192	3.156	3.172	3.049
51.0	1.996	2.006	1.826	1.802	1.829	1.835	2.071	2.041	2.084	1.975
54.0	1.109	1.164	1.014	1.017	1.049	1.060	1.261	1.216	1.187	1.072
57.0	0.4591	0.5495	0.4557	0.4453	0.4773	0.4976	0.6364	0.6006	0.5467	0.4323
60.0	0.3391	0.3190	0.3015	0.3085	0.2862	0.2975	0.2841	0.2997	0.3252	0.2888
63.0	0.2627	0.2490	0.2271	0.2408	0.2162	0.2364	0.2250	0.2364	0.2096	0.2232
66.0	0.2035	0.1814	0.1704	0.1772	0.1529	0.1663	0.1550	0.1685	0.1420	0.1554
69.0	0.1685	0.1442	0.1332	0.1466	0.1223	0.1356	0.1180	0.1313	0.1071	0.1247
72.0	0.1248	0.1070	0.0939	0.1116	0.0939	0.1073	0.1004	0.1094	0.0830	0.1007
75.0	0.0963	0.0764	0.0655	0.0832	0.0634	0.0853	0.0656	0.0853	0.0655	0.0723
78.0	0.0679	0.0480	0.0414	0.0613	0.0414	0.0613	0.0437	0.0613	0.0393	0.0547
81.0	0.0460	0.0284	0.0283	0.0394	0.0283	0.0394	0.0283	0.0438	0.0261	0.0394
84.0	0.0285	0.0087	0.0065	0.0241	0.0043	0.0241	0.0065	0.0284	0.0086	0.0219
87.0	0.0154	0	0	0.0132	0	0.0131	0	0.0132	0	0.0131
90.0	0	0	0	0	0	0	0	0	0	0
G/C	300.0	315.0	330.0	345.0						
0.0	1448	1451	1451	1451						
3.0	1472	1434	1400	1358						
6.0	1382	1306	1243	1167						
9.0	1193	1096	1018	929.5						
12.0	948.3	850.2	778.6	691.5						
15.0	692.7	615.0	556.1	481.9						
18.0	475.6	415.4	374.4	318.3						
21.0	309.3	270.9	243.0	202.5						

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2018-01-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## Photometric Data Table [cd]

24.0	193.8	173.5	155.5	128.1
27.0	120.0	110.6	100.5	82.59
30.0	74.95	71.40	65.59	54.30
33.0	46.55	45.84	42.30	35.28
36.0	29.24	29.26	27.02	22.67
39.0	19.06	18.81	17.23	14.49
42.0	9.914	9.099	8.083	6.635
45.0	4.393	4.253	3.858	3.484
48.0	2.939	2.793	2.537	2.285
51.0	1.877	1.733	1.588	1.428
54.0	1.003	0.8899	0.8354	0.7583
57.0	0.3624	0.3509	0.3255	0.3436
60.0	0.2730	0.2844	0.2599	0.2800
63.0	0.2052	0.2101	0.1856	0.2057
66.0	0.1332	0.1510	0.1355	0.1619
69.0	0.1048	0.1225	0.1070	0.1291
72.0	0.0764	0.0963	0.0764	0.0963
75.0	0.0546	0.0722	0.0502	0.0723
78.0	0.0328	0.0547	0.0328	0.0525
81.0	0.0239	0.0350	0.0174	0.0350
84.0	0	0.0197	0	0.0219
87.0	0	0.0066	0	0.0044
90.0	0	0	0	0

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2018-01-16

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks: