

GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Downlight Sense Series S45R1-4W-940-35



Light Output Ratio:	100.0%	
Luminaire Power:	5.301 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

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:

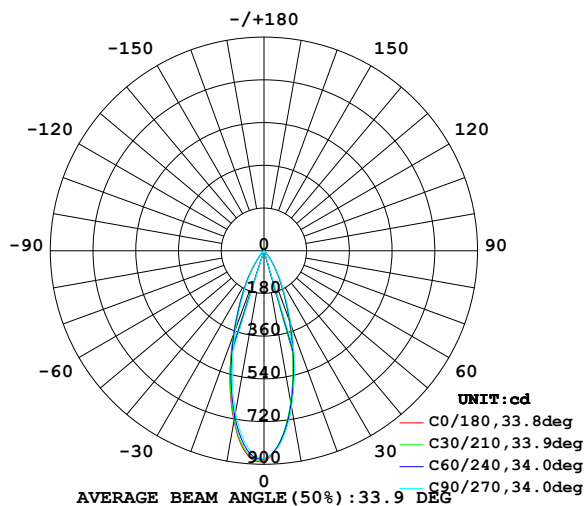
GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

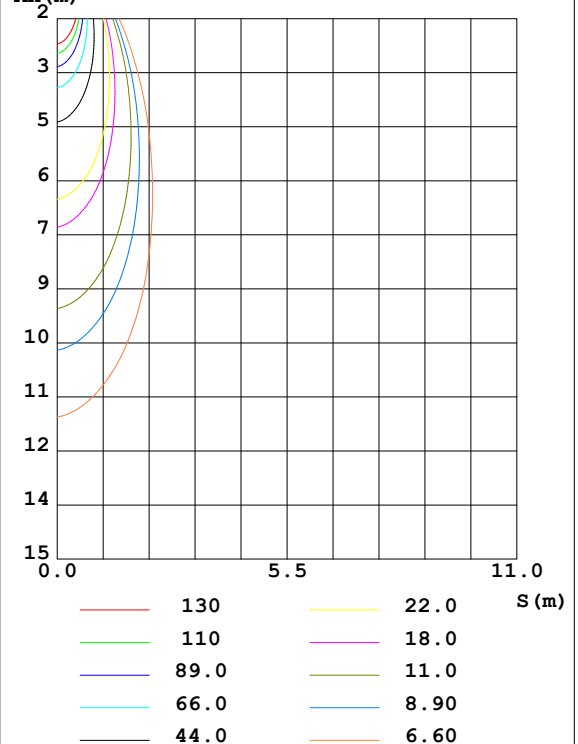
Test:U:220.7V I:0.0312A P:5.301W PF:0.7986 Lamp Flux:362.89lx1 lm		
NAME: S45R1-4W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 55mm*H60mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.46 lm/W			
MODEL	CREE-4000K	I _{max} (cd)	889.4	S/MH (C0/180)	0.59
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.57
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	362.89	η UP, DN (C0-180)	0.0, 49.0
NOMINAL FLUX (lm)	362.891	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.55

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

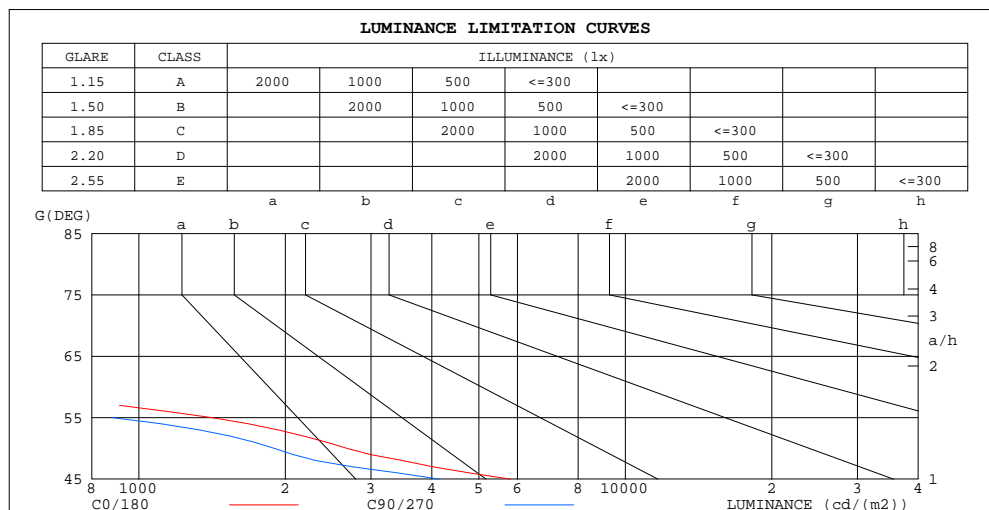
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	651.0	655.5	669.7	695.6	729.8	714.2	692.5	660.4	0- 10	73.93	73.93	20.4,20.4
20	313.1	322.3	335.0	353.0	377.5	366.9	347.9	323.3	10- 20	139.0	213.0	58.7,58.7
30	115.5	119.7	126.0	131.7	143.4	136.1	129.1	118.8	20- 30	99.34	312.3	86.1,86.1
40	26.01	23.47	20.55	20.62	26.85	27.98	28.64	26.77	30- 40	40.82	353.1	97.3,97.3
50	4.091	3.567	2.899	2.678	3.222	3.312	3.457	3.564	40- 50	7.654	360.8	99.4,99.4
60	0.7745	0.6600	0.5601	0.4763	0.4937	0.5469	0.6227	0.7415	50- 60	1.462	362.2	99.8,99.8
70	0.3938	0.3102	0.2495	0.2120	0.1879	0.2341	0.2774	0.3697	60- 70	0.4090	362.6	99.9,99.9
80	0.1620	0.1092	0.0942	0.0633	0.0655	0.0941	0.1004	0.1510	70- 80	0.1936	362.8	100,100
90	0.0131	0.0044	0.0044	0.0022	0	0	0.0022	0.0109	80- 90	0.0507	362.9	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(DEG)	C0/180	C90/270
85	402	201
80	393	228
75	427	267
70	485	307
65	534	356
60	652	472
55	1414	884
50	2680	1899
45	5803	4148

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

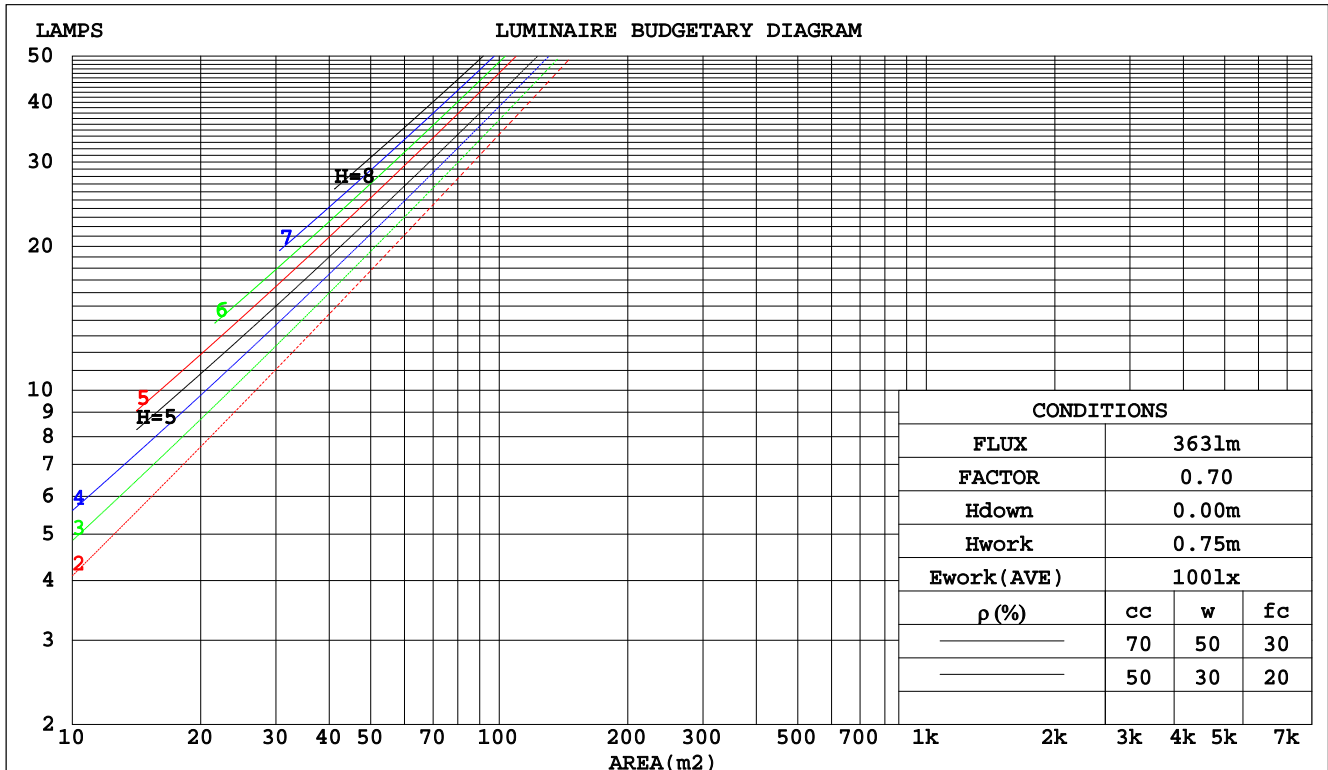
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0312A P:5.301W PF:0.7986 Lamp Flux:362.89lx1 lm		
NAME: S45R1-4W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 55mm*H60mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.05	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.90
3.0	.00	.95	.92	.98	.94	.91	.96	.93	.90	.93	.91	.89	.91	.89	.87	.86
4.0	.95	.90	.86	.93	.89	.86	.91	.88	.85	.90	.86	.84	.88	.85	.83	.82
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.86	.82	.80	.84	.81	.79	.78
6.0	.86	.81	.77	.85	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.75	.74
7.0	.82	.77	.73	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.74	.72	.71
8.0	.78	.73	.70	.78	.73	.70	.77	.72	.69	.76	.72	.69	.75	.71	.69	.68
9.0	.75	.70	.67	.74	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.65
10.0	.72	.67	.64	.71	.67	.64	.71	.66	.63	.70	.66	.63	.69	.66	.63	.62



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

WEC AND CCEC

Test:U:220.7V I:0.0312A P:5.301W PF:0.7986 Lamp Flux:362.891x1 lm		
NAME: S45R1-4W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 55mm*H60mm	
MFR.: NEKO LIGHTING AG		

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.156	.089	.028	.150	.085	.027	.137	.079	.025	.126	.073	.023	.115	.067	.022		
2.0	.148	.081	.025	.142	.078	.024	.132	.073	.023	.122	.069	.021	.113	.064	.020		
3.0	.139	.074	.022	.135	.072	.022	.126	.068	.021	.118	.065	.020	.110	.061	.019		
4.0	.132	.069	.020	.128	.067	.020	.121	.064	.019	.114	.061	.018	.107	.058	.018		
5.0	.126	.064	.019	.122	.063	.018	.116	.060	.018	.110	.058	.017	.104	.056	.017		
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.106	.055	.016	.101	.053	.016		
7.0	.114	.057	.016	.112	.056	.016	.107	.054	.016	.102	.052	.015	.098	.051	.015		
8.0	.109	.053	.015	.107	.053	.015	.103	.051	.015	.099	.050	.014	.095	.049	.014		
9.0	.105	.051	.014	.103	.050	.014	.099	.049	.014	.095	.048	.014	.092	.047	.013		
10.0	.101	.048	.013	.099	.048	.013	.095	.047	.013	.092	.046	.013	.089	.045	.013		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.118	.086	.063	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.095	.067	.046	.065	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005	
8.0	.097	.062	.038	.084	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.033	.079	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.088	.053	.029	.076	.046	.026	.052	.032	.018	.031	.019	.011	.010	.006	.004	

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

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0312A P:5.301W PF:0.7986 Lamp Flux:362.891x1 lm										
NAME: S45R1-4W-940-35					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					DIM.: \varnothing 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	13.1	13.9	13.4	14.1	14.3	13.1	13.9	13.3	14.1	14.2
3H	13.0	13.7	13.2	13.9	14.1	13.0	13.7	13.2	13.9	14.1
4H	12.9	13.6	13.2	13.8	14.0	12.9	13.6	13.1	13.8	14.0
6H	12.8	13.5	13.1	13.7	14.0	12.8	13.4	13.1	13.7	13.9
8H	12.8	13.4	13.1	13.7	13.9	12.7	13.4	13.0	13.6	13.9
12H	12.7	13.4	13.1	13.6	13.9	12.7	13.3	13.0	13.6	13.8
4H 2H	12.9	13.6	13.2	13.8	14.0	12.9	13.6	13.1	13.8	14.0
3H	12.7	13.4	13.1	13.6	13.9	12.7	13.3	13.0	13.6	13.8
4H	12.7	13.2	13.0	13.5	13.8	12.6	13.2	13.0	13.5	13.8
6H	12.6	13.1	12.9	13.4	13.7	12.5	13.0	12.9	13.3	13.7
8H	12.5	13.0	12.9	13.3	13.7	12.5	12.9	12.9	13.3	13.6
12H	12.5	12.9	12.9	13.3	13.6	12.4	12.8	12.8	13.2	13.6
8H 4H	12.5	13.0	12.9	13.3	13.7	12.5	12.9	12.9	13.3	13.6
6H	12.4	12.8	12.8	13.2	13.6	12.4	12.7	12.8	13.1	13.5
8H	12.4	12.7	12.8	13.1	13.5	12.3	12.6	12.8	13.1	13.5
12H	12.3	12.6	12.8	13.0	13.5	12.3	12.5	12.7	13.0	13.4
12H 4H	12.5	12.9	12.9	13.2	13.6	12.4	12.8	12.8	13.2	13.6
6H	12.4	12.7	12.8	13.1	13.5	12.3	12.6	12.8	13.1	13.5
8H	12.3	12.6	12.8	13.0	13.5	12.3	12.5	12.7	13.0	13.4
Variations with the observer position at spacings:										
S = 1.0H	+ 4.0 / -11.6					+ 3.7 / -12.7				
1.5H	+ 6.3 / - 9.5					+ 6.1 / - 9.8				
2.0H	+ 6.3 / - 6.0					+ 5.8 / - 5.7				

CIE Pub.117 Corrected 362.9 lm Total Lamp Luminous Flux. ($8\log(F/F_0) = -3.5$)

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

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0312A P:5.301W PF:0.7986 Lamp Flux:362.891x1 lm		
NAME: S45R1-4W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 55mm*H60mm	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	89	83	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	112	113	112	110	109	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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

ISOCANDELA DIAGRAM

Test:U:220.7V I:0.0312A P:5.301W PF:0.7986 Lamp Flux:362.891x1 lm		
NAME: S45R1-4W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 55mm*H60mm	
MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

358.74 lm

%lum = 98.9%

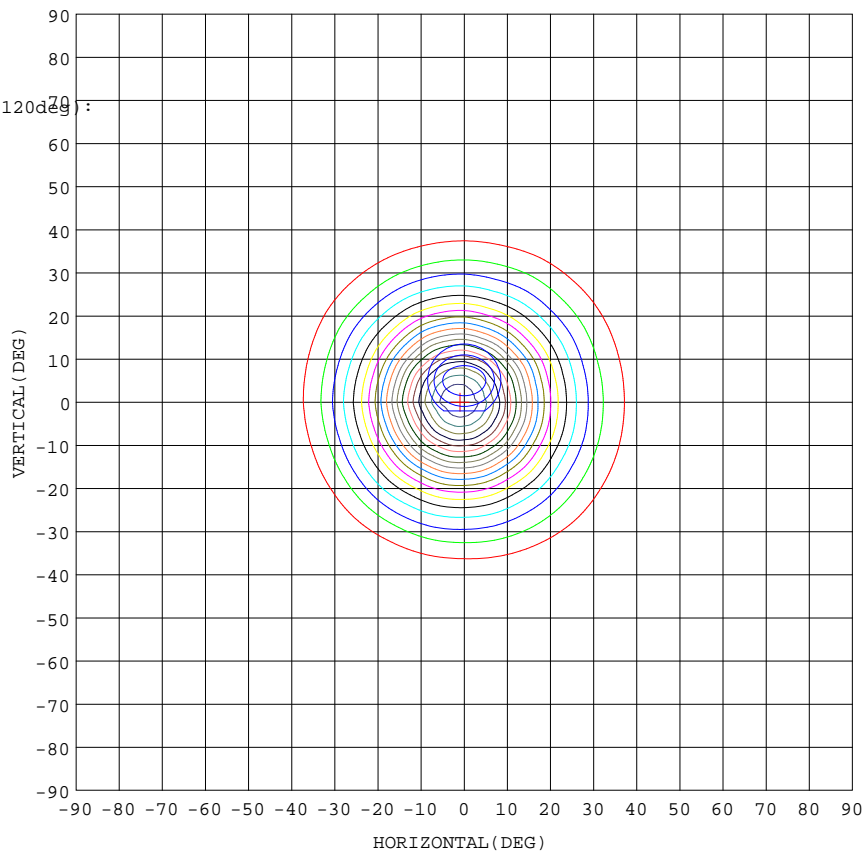
%lamp = 98.9%

Conical surface Flux(120deg):

362.24 lm

%lum = 99.8%

%lamp = 99.8%



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

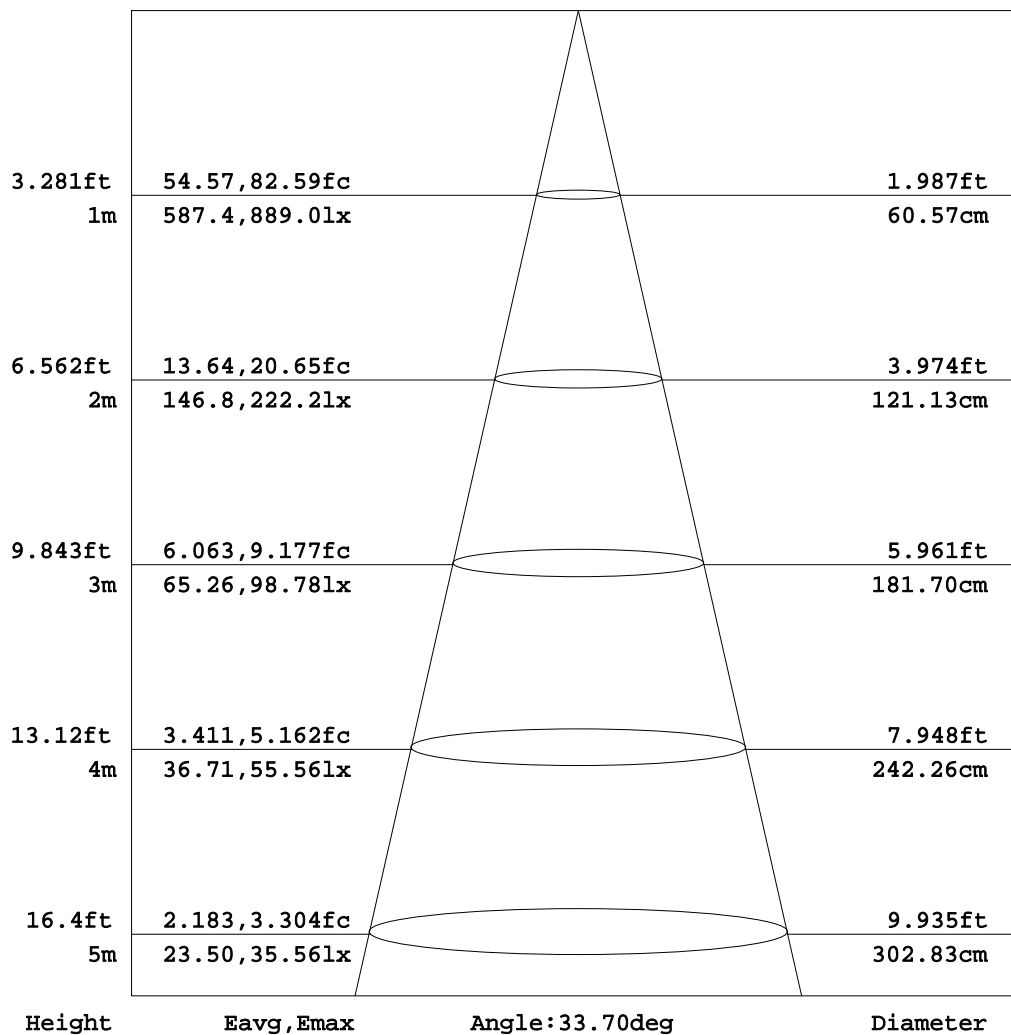
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:220.7V I:0.0312A P:5.301W PF:0.7986 Lamp Flux:362.89lx1 lm		
NAME: S45R1-4W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 55mm*H60mm	
MFR.: NEKO LIGHTING AG		

Flux out:172.5 lm



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

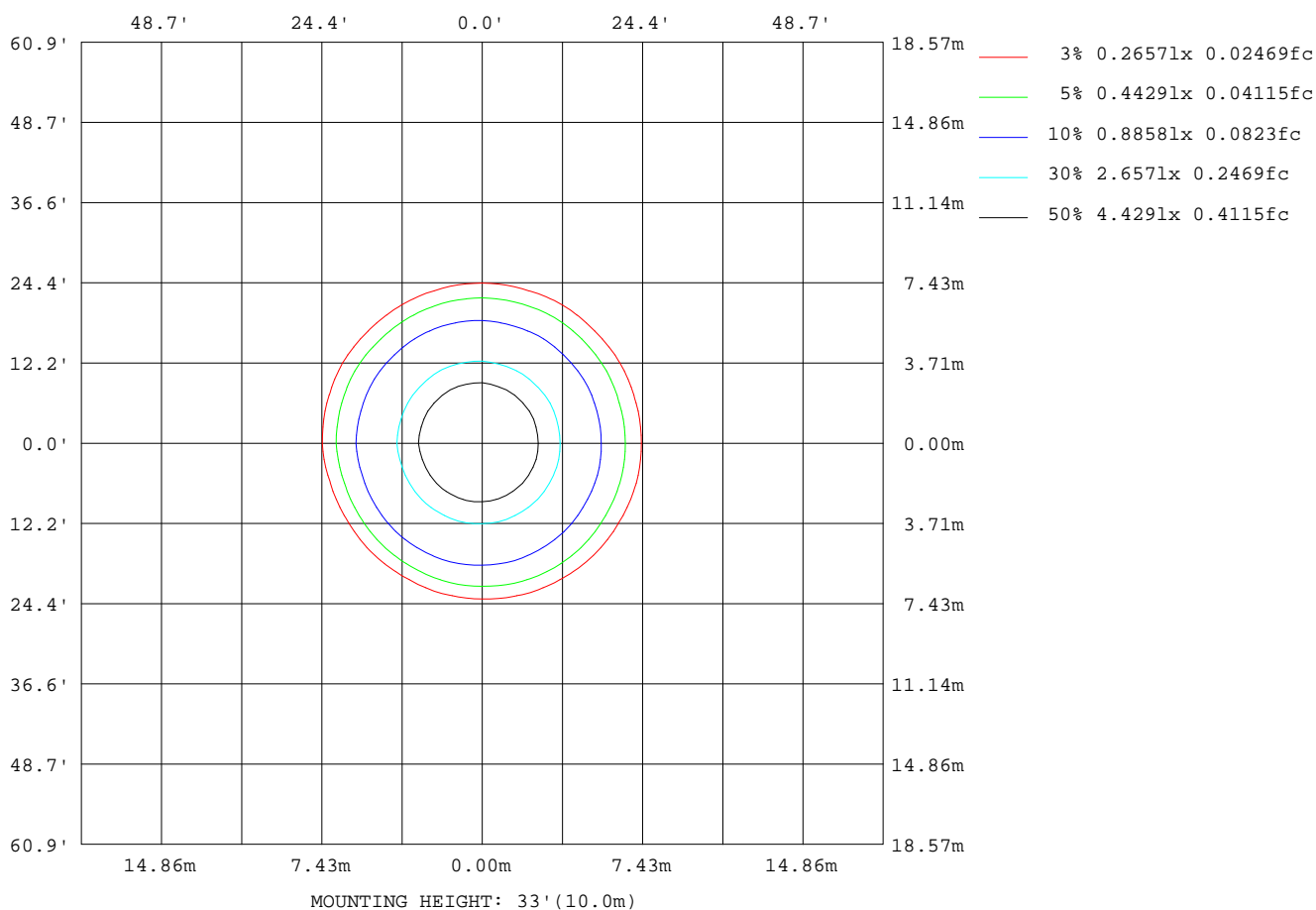
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2018-01-16

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

ISOLUX DIAGRAM

Test:U:220.7V I:0.0312A P:5.301W PF:0.7986 Lamp Flux:362.89lx1 lm		
NAME: S45R1-4W-940-35	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 55mm*H60mm	
MFR.: NEKO LIGHTING AG		

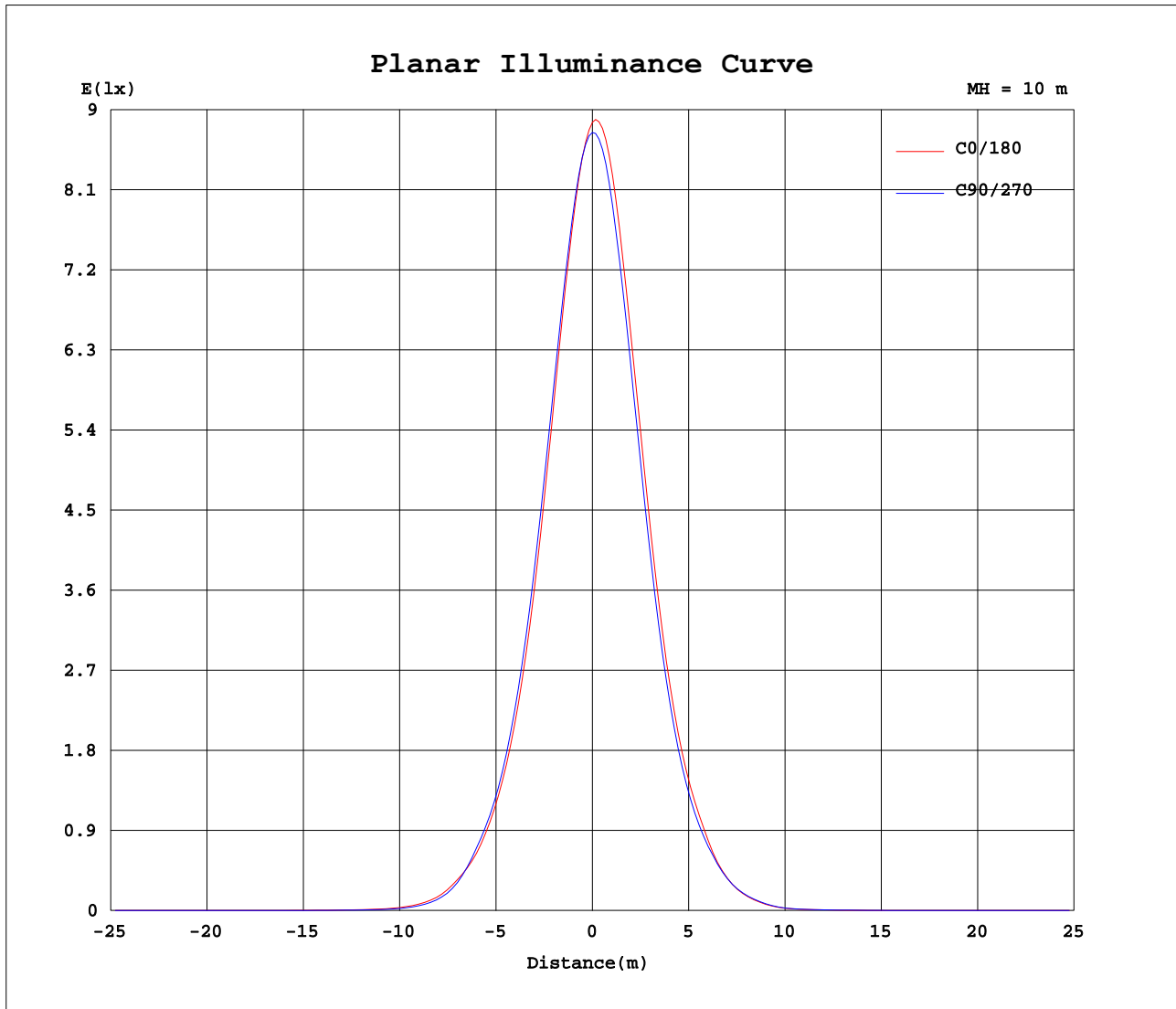


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2018-01-16

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

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

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:

```

```

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	885.8	883.4	880.4	878.8	876.9	875.7	874.4	873.4	872.6	871.6
3.0	849.0	848.1	845.4	847.1	845.8	848.8	849.7	854.4	856.2	859.5
6.0	778.5	778.8	775.9	780.3	780.7	786.9	788.5	796.7	801.1	809.0
9.0	686.0	686.5	683.4	689.6	691.1	699.8	702.6	713.2	717.6	728.2
12.0	579.4	581.5	578.8	585.7	588.6	598.3	601.7	612.4	616.0	628.0
15.0	471.4	474.5	472.7	481.0	482.3	492.9	496.9	507.6	510.6	522.1
18.0	371.9	375.4	374.7	381.5	382.6	392.1	395.9	405.3	407.7	417.6
21.0	286.2	288.9	288.3	295.1	296.0	303.8	306.9	313.7	315.3	323.5
24.0	216.3	218.0	217.6	223.4	223.4	229.9	232.1	236.9	237.7	244.8
27.0	160.3	162.4	161.4	166.2	166.5	171.3	172.3	177.1	177.4	182.8
30.0	115.5	116.8	116.2	119.7	121.6	124.7	126.0	129.3	129.7	131.7
33.0	81.10	81.69	81.04	83.07	84.85	84.60	82.84	83.09	80.68	82.18
36.0	54.31	54.20	52.25	52.00	50.05	49.23	46.90	46.99	45.40	46.75
39.0	31.31	30.54	28.74	28.61	27.49	26.64	25.48	25.78	24.77	25.58
42.0	17.80	17.13	15.98	15.61	14.77	14.14	13.52	13.62	12.90	13.09
45.0	9.744	9.502	8.922	8.617	7.985	7.503	6.965	6.923	6.366	6.355
48.0	5.535	5.526	5.149	4.827	4.304	3.946	3.675	3.567	3.380	3.340
51.0	3.631	3.610	3.408	3.173	2.845	2.726	2.580	2.509	2.372	2.374
54.0	2.342	2.345	2.169	2.074	1.834	1.729	1.550	1.486	1.377	1.436
57.0	1.180	1.169	1.049	0.9972	0.8560	0.7925	0.6932	0.6380	0.6205	0.5921
60.0	0.7745	0.7365	0.7154	0.6600	0.6323	0.5856	0.5601	0.5157	0.5098	0.4763
63.0	0.6369	0.6008	0.5800	0.5287	0.5056	0.4500	0.4313	0.3910	0.3810	0.3517
66.0	0.4968	0.4611	0.4530	0.4065	0.3874	0.3387	0.3305	0.2885	0.2975	0.2623
69.0	0.4200	0.3824	0.3807	0.3430	0.3238	0.2775	0.2735	0.2360	0.2538	0.2273
72.0	0.3327	0.3058	0.3020	0.2599	0.2517	0.2097	0.2145	0.1792	0.2079	0.1856
75.0	0.2626	0.2337	0.2320	0.1966	0.1948	0.1551	0.1641	0.1311	0.1401	0.1201
78.0	0.1927	0.1660	0.1751	0.1377	0.1445	0.1136	0.1182	0.0961	0.1050	0.0808
81.0	0.1423	0.1179	0.1226	0.0961	0.0963	0.0721	0.0810	0.0654	0.0701	0.0480
84.0	0.0942	0.0677	0.0789	0.0567	0.0636	0.0371	0.0526	0.0327	0.0395	0.0304
87.0	0.0526	0.0284	0.0417	0.0217	0.0286	0.0065	0.0176	0.0044	0.0154	0.0022
90.0	0.0131	0.0066	0.0066	0.0044	0.0044	0.0022	0.0044	0.0044	0.0044	0.0022

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	871.1	869.9	883.4	880.4	878.8	876.9	875.7	874.4	873.4	871.6
3.0	860.8	863.0	882.7	878.9	876.5	871.8	868.3	862.6	859.0	852.3
6.0	812.3	817.5	839.5	834.5	832.3	824.0	819.5	810.5	805.3	794.6
9.0	731.1	738.6	760.2	755.1	754.8	744.9	741.2	729.5	723.8	711.1
12.0	631.6	641.0	663.0	655.9	657.2	647.6	642.8	629.9	624.6	609.9
15.0	525.0	534.6	554.8	547.6	548.0	540.2	537.7	524.0	517.9	501.8
18.0	421.3	429.1	445.8	439.6	440.3	433.7	432.0	420.7	413.1	398.9
21.0	326.5	332.3	345.2	341.3	341.4	335.9	335.6	324.8	318.8	306.3
24.0	247.2	251.3	262.0	257.3	257.8	252.5	252.4	244.7	239.2	230.2
27.0	184.0	187.4	196.2	192.3	192.3	186.8	186.0	180.9	176.9	169.8
30.0	131.1	134.3	143.4	140.0	140.0	136.1	135.0	131.6	129.1	123.7
33.0	81.92	84.40	91.92	91.13	92.43	89.30	89.87	88.94	88.84	86.71
36.0	47.18	49.96	55.63	56.39	57.75	55.62	55.50	55.26	55.83	54.35
39.0	26.29	28.60	32.71	33.33	34.89	33.98	33.94	33.78	34.27	33.27
42.0	13.30	14.63	17.12	17.27	18.31	17.81	18.10	17.89	18.73	18.47
45.0	6.233	6.906	7.753	7.887	8.235	7.862	7.824	7.642	8.306	8.448
48.0	3.403	3.722	4.172	4.223	4.326	4.185	4.200	4.130	4.401	4.458
51.0	2.372	2.544	2.809	2.853	2.995	2.946	2.948	2.998	3.120	3.130
54.0	1.418	1.454	1.621	1.648	1.793	1.840	1.997	1.964	2.082	2.074
57.0	0.5940	0.5834	0.6289	0.6361	0.6984	0.7376	0.8352	0.8645	0.9681	0.9780
60.0	0.4858	0.4676	0.4937	0.5163	0.5156	0.5469	0.5549	0.6037	0.6227	0.6737
63.0	0.3569	0.3407	0.3624	0.3853	0.3842	0.4180	0.4279	0.4706	0.4913	0.5384
66.0	0.2669	0.2426	0.2470	0.2735	0.2665	0.2976	0.3037	0.3458	0.3605	0.4070
69.0	0.2318	0.1966	0.2053	0.2253	0.2185	0.2494	0.2469	0.2887	0.2971	0.3391
72.0	0.1925	0.1551	0.1638	0.1838	0.1747	0.2013	0.1987	0.2341	0.2337	0.2714
75.0	0.1335	0.1115	0.1245	0.1422	0.1354	0.1575	0.1485	0.1816	0.1770	0.2144
78.0	0.0985	0.0873	0.0830	0.1029	0.0960	0.1203	0.1092	0.1357	0.1332	0.1598
81.0	0.0701	0.0480	0.0545	0.0723	0.0632	0.0853	0.0699	0.0985	0.0873	0.1160
84.0	0.0373	0.0261	0.0282	0.0438	0.0283	0.0526	0.0371	0.0613	0.0502	0.0745
87.0	0.0154	0.0022	0	0.0176	0	0.0219	0.0043	0.0307	0.0239	0.0438
90.0	0.0022	0.0022	0	0	0	0	0	0	0.0022	0.0066

G/C	300.0	315.0	330.0	345.0
0.0	872.6	871.6	871.1	869.9
3.0	848.9	843.2	840.9	836.7
6.0	790.3	780.7	776.9	769.9
9.0	705.9	693.9	689.5	681.3
12.0	603.0	591.2	588.1	577.9
15.0	496.2	484.6	482.4	471.4
18.0	393.1	383.9	382.0	372.3
21.0	303.3	295.6	294.8	286.5

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	227.8	222.1	221.4	216.1
27.0	168.9	164.1	164.3	160.2
30.0	123.1	118.8	117.8	115.5
33.0	87.08	83.46	82.68	80.55
36.0	55.32	53.74	54.83	53.93
39.0	33.46	31.85	31.96	31.49
42.0	18.77	18.13	18.39	18.15
45.0	8.843	8.910	9.330	9.527
48.0	4.628	4.671	5.015	5.281
51.0	3.219	3.215	3.382	3.511
54.0	2.187	2.185	2.340	2.345
57.0	1.110	1.161	1.251	1.216
60.0	0.6948	0.7415	0.7430	0.7678
63.0	0.5613	0.6039	0.6137	0.6324
66.0	0.4217	0.4639	0.4697	0.4901
69.0	0.3496	0.3894	0.3889	0.4134
72.0	0.2752	0.3130	0.3080	0.3305
75.0	0.2097	0.2472	0.2381	0.2560
78.0	0.1572	0.1838	0.1725	0.1948
81.0	0.1027	0.1313	0.1201	0.1423
84.0	0.0654	0.0876	0.0720	0.0941
87.0	0.0283	0.0526	0.0349	0.0526
90.0	0.0044	0.0109	0.0087	0.0109

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: