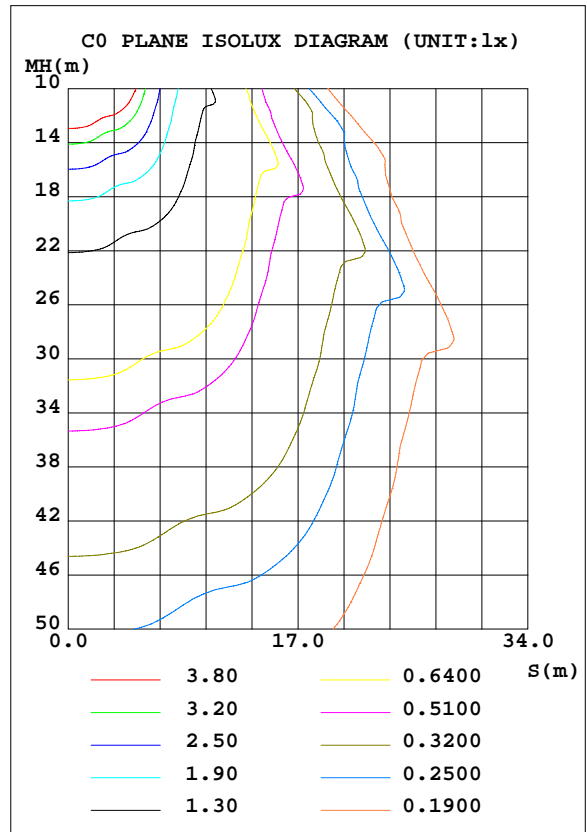
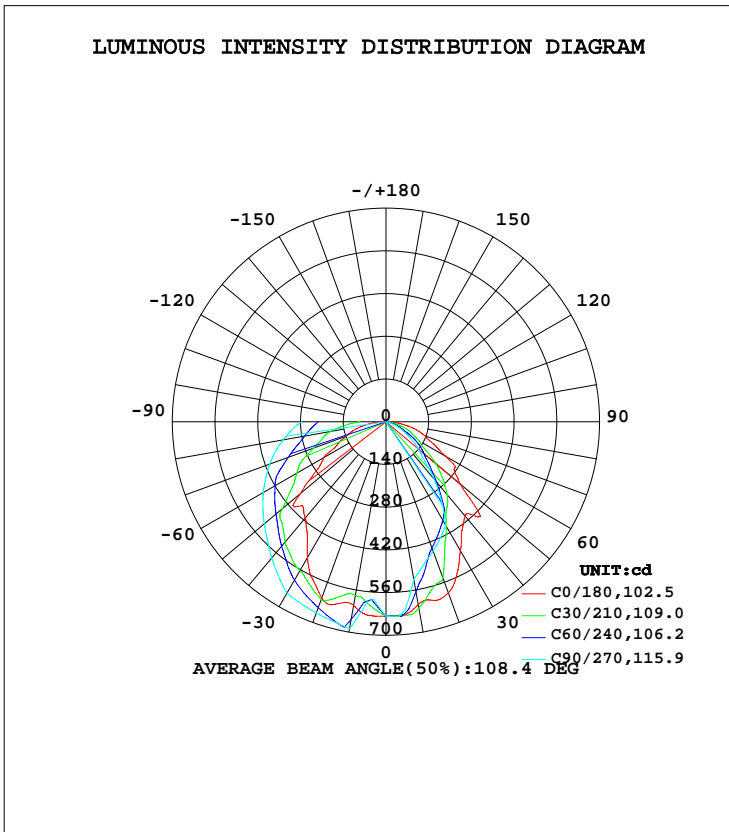


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME: ASD-WLP05-15N40B	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.55 lm/W			
MODEL	ASD-WLP05-15N40B	I _{max} (cd)	688.7	S/MH(C0/180)	1.20
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.47
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1778.6	η UP, DN(C0-180)	0.0,31.8
NOMINAL FLUX(lm)	1778.6	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,68.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	635.0	639.4	628.0	639.1	637.1	591.0	588.8	589.8	0- 5	14.92	14.92	0.84,0.84
10	608.5	598.3	524.2	589.2	611.3	615.0	688.3	615.0	5- 10	43.64	58.56	3.29,3.29
15	606.0	529.3	482.8	525.7	617.8	655.6	676.5	653.8	10- 15	70.41	129.0	7.25,7.25
20	597.3	442.3	451.3	464.2	615.2	633.9	667.1	610.9	15- 20	94.34	223.3	12.6,12.6
25	550.6	398.1	420.9	413.5	569.3	610.0	658.1	585.5	20- 25	114.3	337.6	19,19
30	487.5	360.1	390.6	361.7	514.6	573.5	649.0	571.0	25- 30	130.6	468.2	26.3,26.3
35	434.8	315.3	318.0	306.8	449.8	542.8	615.6	548.6	30- 35	142.4	610.6	34.3,34.3
40	404.3	269.0	245.3	253.4	411.9	523.3	582.3	526.9	35- 40	146.5	757.2	42.6,42.6
45	438.0	240.3	176.5	227.8	388.9	496.9	549.4	499.1	40- 45	145.7	902.9	50.8,50.8
50	318.0	208.3	138.9	193.0	365.6	451.8	520.7	459.7	45- 50	141.8	1045	58.7,58.7
55	272.5	162.6	105.2	146.8	277.4	400.3	492.5	404.4	50- 55	134.4	1179	66.3,66.3
60	224.6	117.7	71.48	105.6	235.8	369.5	464.2	369.1	55- 60	122.9	1302	73.2,73.2
65	171.5	83.39	50.16	74.64	175.2	340.2	434.5	348.5	60- 65	111.0	1413	79.4,79.4
70	137.6	53.24	28.84	53.64	139.9	312.5	404.8	307.1	65- 70	98.87	1512	85,85
75	103.7	29.89	9.522	31.47	110.0	276.7	374.8	271.2	70- 75	85.28	1597	89.8,89.8
80	64.18	11.99	6.203	12.38	75.65	246.2	342.2	238.1	75- 80	72.29	1669	93.9,93.9
85	33.53	8.108	4.883	8.609	38.86	210.7	309.3	198.7	80- 85	60.32	1730	97.2,97.2
90	2.701	4.218	3.564	4.409	1.464	175.9	276.5	163.6	85- 90	48.94	1779	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

Conical surface Flux(90deg): 902.87 lm

%lum = 50.8%
%lamp = 50.8%

Conical surface Flux(120deg): 1301.9 lm

%lum = 73.2%
%lamp = 73.2%

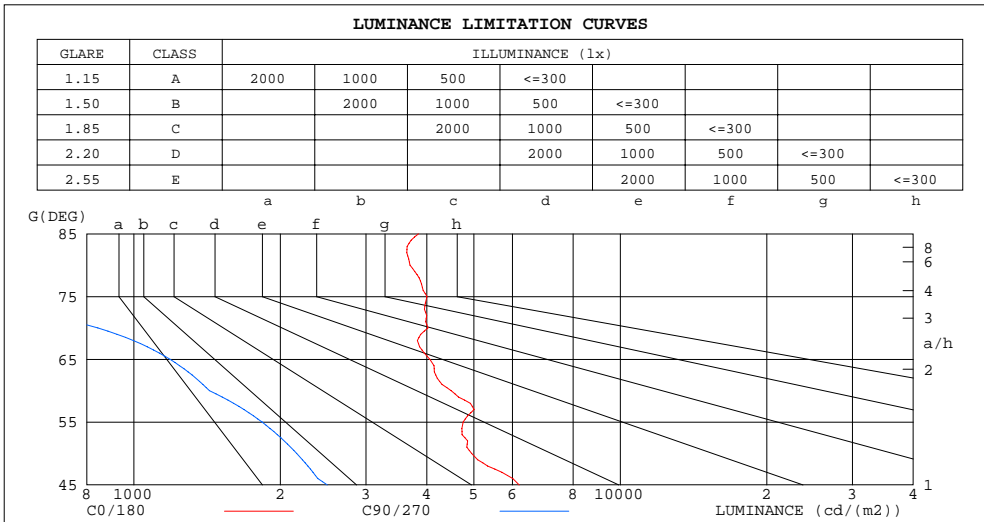
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2017-03-06

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3847	560
80	3696	357
75	4006	368
70	4022	843
65	4059	1187
60	4491	1430
55	4751	1834
50	4947	2161
45	6195	2497

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2017-03-06

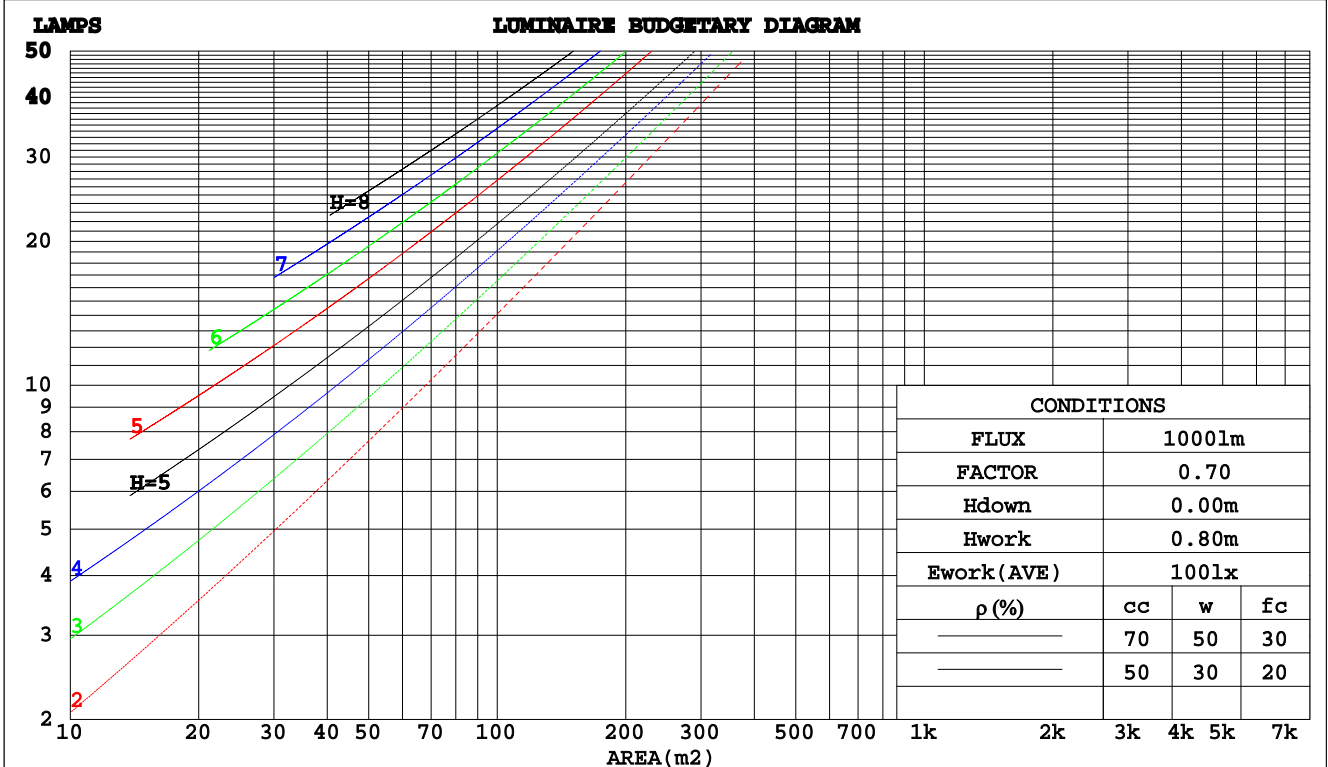
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw	20%			20%			20%			20%			20%			0
ρfc	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	1.01	.96	.92	.99	.94	.90	.95	.91	.87	.91	.87	.85	.87	.84	.82	.80
2.0	.88	.80	.74	.86	.79	.73	.82	.76	.71	.79	.74	.70	.76	.72	.68	.66
3.0	.77	.68	.61	.75	.67	.61	.72	.65	.59	.69	.63	.58	.67	.62	.57	.55
4.0	.68	.59	.52	.67	.58	.51	.64	.57	.51	.62	.55	.50	.59	.54	.49	.47
5.0	.61	.51	.45	.60	.51	.44	.57	.50	.44	.55	.49	.43	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.49	.42	.38	.36
7.0	.50	.41	.34	.49	.40	.34	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.33	.27	.39	.32	.27	.38	.32	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm									
NAME:					TYPE:			WEIGHT:	
SPEC.:					DIM.:			SERIAL No.:	
MFR.:					SUR.:			Shielding Angle:	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.360	.205	.065	.353	.201	.064	.339	.195	.062	.327	.189	.061	.315	.183	.059	
2.0	.319	.175	.054	.312	.172	.053	.300	.167	.052	.289	.162	.051	.279	.158	.050	
3.0	.287	.153	.046	.281	.150	.045	.270	.147	.045	.261	.143	.044	.252	.139	.043	
4.0	.260	.135	.040	.255	.134	.039	.246	.130	.039	.237	.127	.038	.229	.125	.038	
5.0	.238	.121	.035	.234	.120	.035	.225	.117	.035	.218	.115	.034	.210	.112	.034	
6.0	.219	.110	.031	.215	.109	.031	.208	.107	.031	.201	.104	.031	.195	.102	.030	
7.0	.203	.100	.028	.199	.099	.028	.193	.098	.028	.187	.096	.028	.181	.094	.028	
8.0	.189	.092	.026	.186	.091	.026	.180	.090	.026	.174	.088	.025	.169	.087	.025	
9.0	.176	.085	.024	.174	.085	.024	.168	.083	.024	.163	.082	.023	.159	.081	.023	
10.0	.165	.079	.022	.163	.079	.022	.158	.078	.022	.154	.076	.022	.150	.075	.022	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.184	.156	.130	.157	.134	.112	.108	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.176	.132	.095	.151	.113	.082	.103	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.168	.114	.072	.144	.099	.062	.099	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.160	.101	.057	.137	.087	.049	.094	.061	.035	.054	.036	.021	.018	.012	.007	
5.0	.152	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.038	.124	.071	.033	.085	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.078	.043	.018	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm										
NAME:				TYPE:			WEIGHT:			
SPEC.:				DIM.:			SERIAL No.:			
MFR.:				SUR.:			Shielding Angle:			
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	16.1	17.7	16.4	17.9	18.1	12.3	13.9	12.6	14.1	14.3
3H	17.6	19.0	17.9	19.3	19.5	12.7	14.2	13.0	14.4	14.7
4H	18.2	19.6	18.5	19.9	20.1	12.7	14.1	13.0	14.4	14.6
6H	18.7	20.0	19.1	20.3	20.6	12.6	14.0	13.0	14.2	14.5
8H	18.9	20.2	19.2	20.5	20.7	12.6	13.9	12.9	14.2	14.5
12H	19.0	20.3	19.4	20.6	20.9	12.6	13.8	12.9	14.1	14.4
4H 2H	16.1	17.5	16.4	17.7	18.0	12.9	14.3	13.2	14.5	14.8
3H	17.7	19.0	18.1	19.3	19.6	13.4	14.7	13.8	15.0	15.3
4H	18.4	19.6	18.8	19.9	20.2	13.5	14.6	13.8	14.9	15.3
6H	19.0	20.0	19.4	20.4	20.8	13.4	14.4	13.8	14.8	15.2
8H	19.2	20.2	19.7	20.6	21.0	13.4	14.4	13.8	14.7	15.1
12H	19.4	20.3	19.9	20.7	21.1	13.4	14.3	13.8	14.7	15.1
8H 4H	18.4	19.3	18.8	19.7	20.1	13.7	14.6	14.1	15.0	15.4
6H	19.0	19.8	19.5	20.2	20.7	13.7	14.5	14.2	14.9	15.4
8H	19.3	20.0	19.7	20.4	20.9	13.7	14.5	14.2	14.9	15.4
12H	19.5	20.1	20.0	20.6	21.1	13.8	14.4	14.3	14.9	15.4
12H 4H	18.3	19.2	18.8	19.6	20.0	13.7	14.6	14.1	15.0	15.4
6H	19.0	19.7	19.4	20.1	20.6	13.8	14.5	14.2	14.9	15.4
8H	19.2	19.9	19.7	20.3	20.8	13.8	14.4	14.3	14.9	15.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.6 / - 0.6				
1.5H	+ 0.9 / - 0.8					+ 1.0 / - 0.9				
2.0H	+ 1.8 / - 1.7					+ 1.2 / - 1.6				

CIE Pub.117 Corrected 1779 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

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	57	45	38	56	45	38	55	44	38	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	74	63	55	73	62	55	71	64	54	47
1.25	81	70	62	80	69	62	77	68	61	54
1.50	86	75	68	84	74	67	81	73	66	58
2.00	93	83	76	91	82	75	87	80	74	66
2.50	97	88	81	94	87	80	90	84	79	70
3.00	100	92	86	98	91	85	94	88	83	74
4.00	104	98	92	102	96	91	97	92	88	79
5.00	107	101	96	104	99	95	100	95	92	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

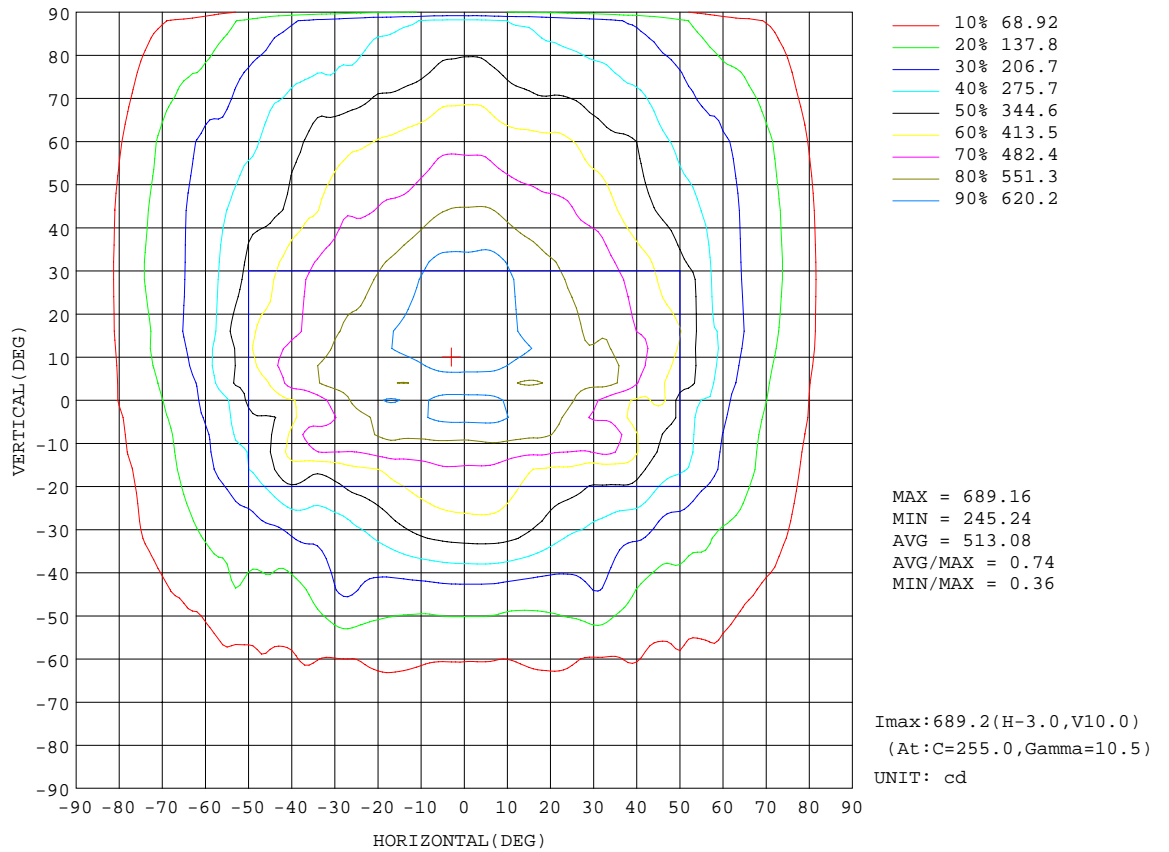
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2017-03-06

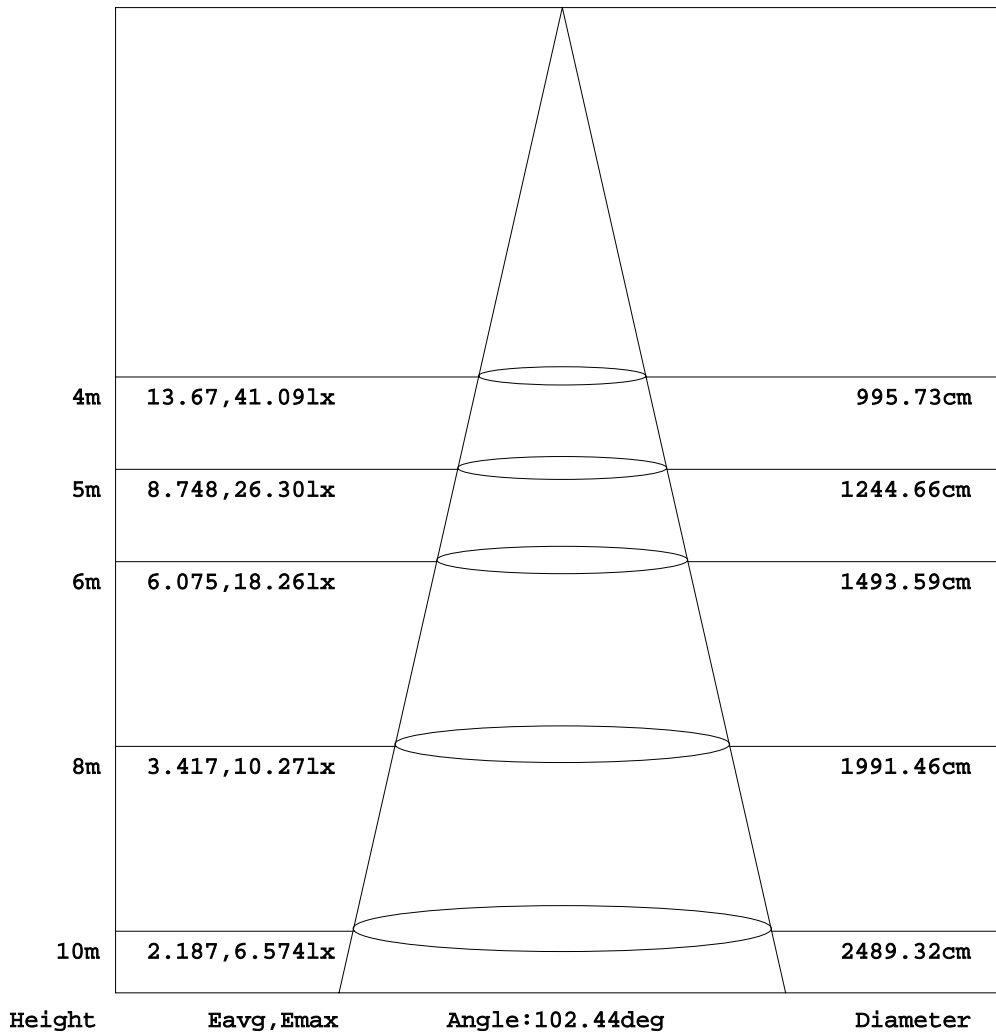
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:1086 lm



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

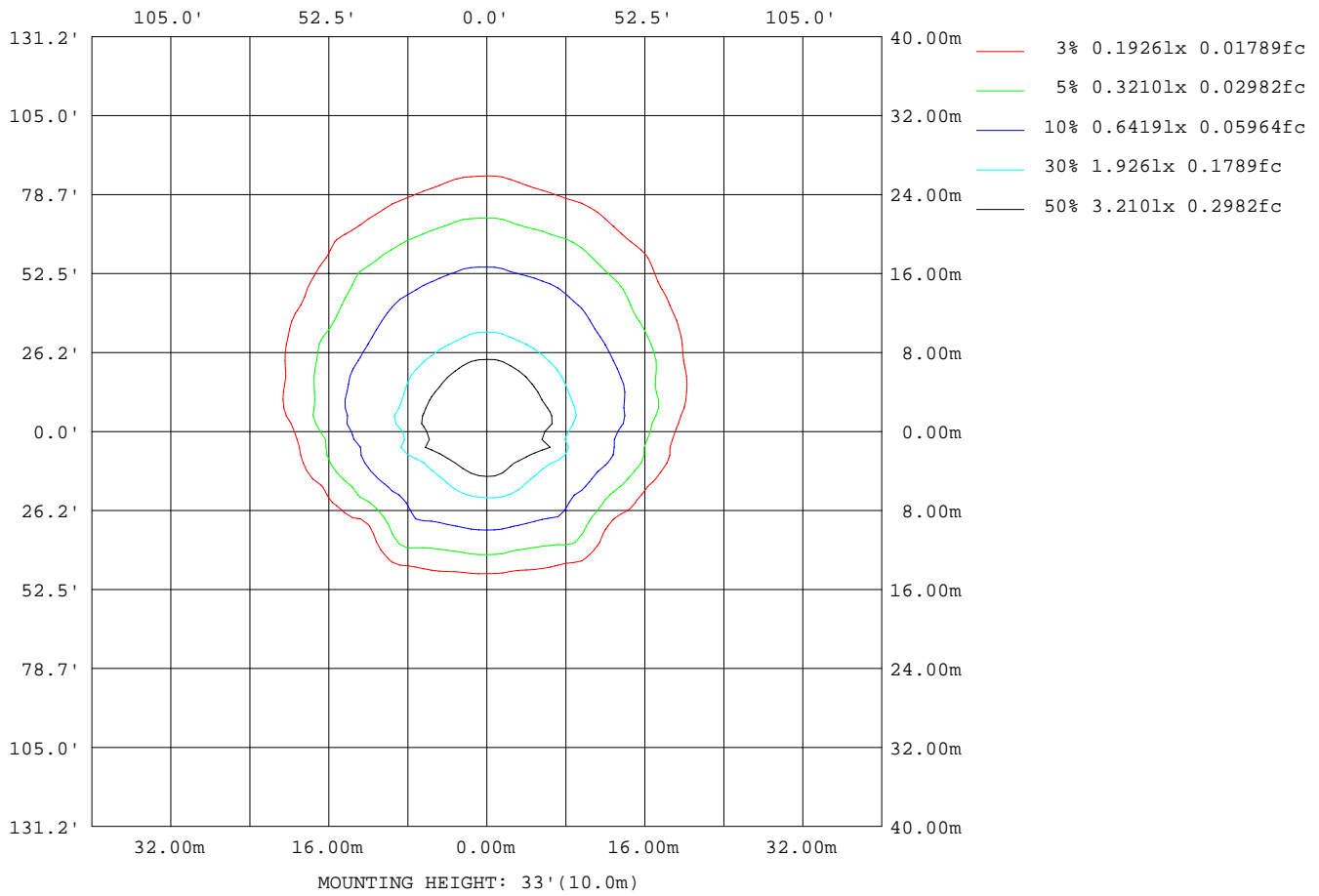
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

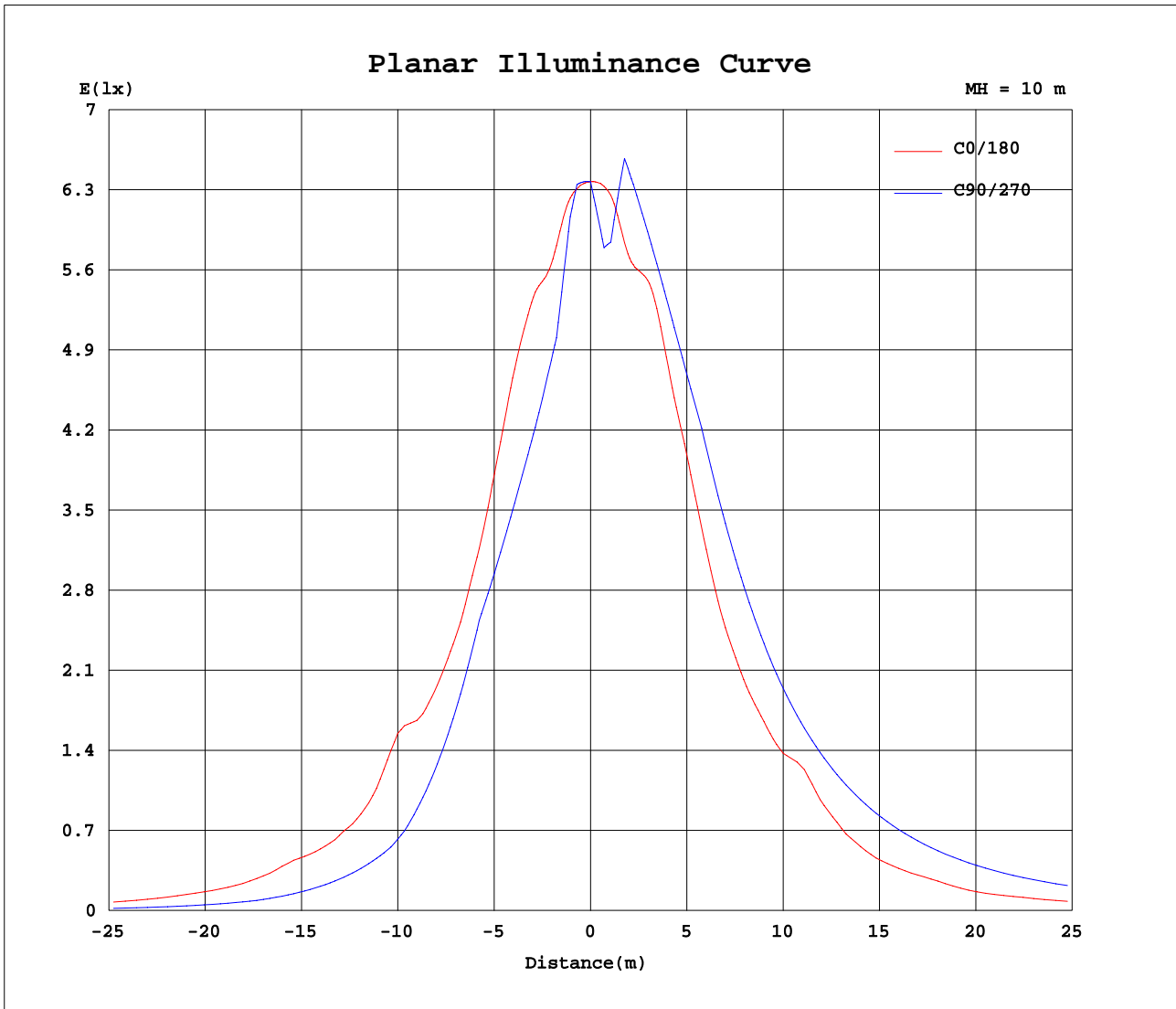
AvgL	cd/m2
L_0~180(65)av	4102
L_0~180(75)av	4128
L_0~180(85)av	4153
L_90~270(65)av	5734
L_90~270(75)av	7424
L_90~270(85)av	18027
L_45(65)av	5009
L_45(75)av	5885
L_45(85)av	12221

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637
5	635	636	636	637	637	638	638	639	639	639	640	639	636	634	632	631	629	629	628
10	609	611	614	617	621	623	619	616	608	598	588	577	566	556	547	539	532	527	524
15	606	602	598	595	590	583	573	561	547	529	515	505	499	494	490	488	485	483	483
20	597	586	575	566	561	557	545	503	466	442	434	435	441	448	453	454	454	452	451
25	551	532	521	524	530	503	456	420	402	398	395	399	406	414	421	424	424	423	421
30	488	478	486	527	506	430	394	382	369	360	360	364	373	382	391	396	396	394	391
35	435	450	494	550	445	373	347	331	324	315	313	320	326	329	329	328	325	321	318
40	404	381	427	436	388	346	312	290	274	269	262	259	258	256	253	252	251	248	245
45	438	360	361	338	317	296	262	229	234	240	230	215	202	191	182	176	178	177	177
50	318	322	301	280	245	225	213	198	193	208	214	185	162	148	141	136	138	139	139
55	272	244	253	233	202	168	153	149	150	163	177	156	134	123	115	107	104	106	105
60	225	203	201	176	148	137	127	102	103	118	118	113	97.8	95.9	89.3	79.6	71.5	72.4	71.5
65	172	159	153	135	125	124	95.2	89.2	74.9	83.4	75.6	64.2	61.1	67.8	64.5	57.2	50.1	50.9	50.2
70	138	124	114	102	94.8	95.0	75.3	67.5	55.4	53.2	53.5	43.3	39.4	42.0	39.7	34.8	29.7	29.6	28.8
75	104	86.5	78.2	62.9	56.7	47.6	47.0	39.4	36.3	29.9	30.0	22.6	19.2	17.5	14.7	12.8	10.7	10.2	9.52
80	64.2	51.4	43.6	32.9	29.9	23.9	23.8	17.8	15.5	12.0	12.0	10.4	9.72	9.15	8.27	7.69	6.80	6.56	6.20
85	33.5	22.0	18.2	13.6	10.9	10.3	9.89	9.89	8.86	8.11	8.19	7.21	6.88	6.54	6.04	5.67	5.17	5.03	4.88
90	2.70	2.93	8.29	9.26	8.10	7.12	6.10	5.33	4.46	4.22	4.13	4.02	3.97	3.90	3.79	3.62	3.53	3.51	3.56

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637
5	628	629	630	632	634	636	639	640	639	639	638	638	638	637	637	637	637	637	631
10	525	529	534	540	548	558	568	578	589	600	609	613	617	617	615	613	612	611	601
15	484	486	489	492	495	499	504	513	526	542	556	566	574	580	587	596	607	618	595
20	452	453	455	454	452	451	452	455	464	486	521	560	568	564	564	574	594	615	588
25	421	420	419	416	414	412	410	411	413	416	433	469	516	539	534	537	552	569	564
30	389	386	383	379	374	368	364	360	362	369	382	400	439	505	529	498	496	515	559
35	317	317	317	318	318	315	310	306	307	319	330	343	361	428	553	490	450	450	531
40	246	246	247	250	252	254	257	256	253	257	272	292	324	367	449	463	406	412	520
45	178	177	178	186	195	208	223	236	228	218	225	264	306	350	381	373	340	389	438
50	140	139	141	147	156	177	211	216	193	184	194	203	232	263	291	293	316	366	377
55	106	107	113	120	129	146	174	167	147	133	136	163	181	201	239	264	268	277	332
60	72.4	75.3	84.7	92.9	96.4	103	117	113	106	89.9	114	130	151	154	182	204	206	236	265
65	50.9	53.3	60.7	66.8	65.2	62.1	65.0	79.6	74.6	77.2	91.8	120	133	136	149	157	162	175	208
70	29.7	31.7	36.7	40.8	40.3	41.1	44.2	56.3	53.6	61.4	65.1	85.1	90.6	87.5	106	119	126	140	163
75	10.3	11.2	13.2	15.0	17.4	19.6	23.5	29.8	31.5	39.5	38.5	48.4	46.5	58.7	67.8	80.0	87.8	110	133
80	6.68	7.11	7.91	8.48	9.43	9.55	10.4	11.5	12.4	14.7	18.4	21.0	27.2	28.6	33.7	44.6	51.9	75.7	97.9
85	5.15	5.44	5.92	6.26	6.74	6.81	7.25	7.72	8.61	8.98	9.82	10.1	9.66	10.8	14.1	19.4	22.9	38.9	54.3
90	3.62	3.77	3.89	4.01	4.03	4.04	4.08	4.18	4.41	4.87	5.39	6.79	7.77	8.47	9.79	8.52	3.16	1.46	25.3

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Temperature:25DEG	Humidity:65.0%
Operators:	Test Distance:7.850m [K=1.0000]
Test Date:2017-03-06	Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C(DEG)\γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637
5	626	620	615	609	604	600	595	591	587	585	587	588	588	589	589	589	589	589	588
10	592	583	575	572	578	584	598	615	631	645	658	667	675	681	686	687	688	687	684
15	572	550	553	567	594	621	647	656	660	667	672	677	679	679	679	677	676	676	676
20	561	554	569	595	620	626	631	634	638	642	649	658	665	669	669	669	667	667	668
25	559	568	586	589	590	598	606	610	613	618	625	635	649	659	661	660	658	659	661
30	586	591	590	575	563	561	566	573	582	589	600	612	628	646	652	651	649	652	656
35	558	540	536	536	541	544	542	543	550	559	566	578	590	606	617	617	616	619	621
40	528	506	492	501	514	522	523	523	521	524	532	536	546	562	578	583	582	585	583
45	495	451	454	471	480	494	496	497	500	495	499	504	506	519	538	548	549	551	544
50	424	419	412	422	444	444	444	452	472	475	471	478	478	489	508	520	521	522	508
55	358	364	376	381	376	379	389	400	423	450	445	451	455	464	480	494	492	493	474
60	268	291	308	331	337	328	343	369	399	410	420	424	431	441	452	467	464	462	441
65	229	239	261	282	304	304	322	340	373	383	387	391	397	406	417	435	435	430	408
70	184	207	232	249	252	268	298	313	326	342	341	349	361	368	381	402	405	398	374
75	152	184	198	221	217	233	256	277	290	302	302	306	325	331	346	370	375	366	340
80	115	140	165	173	185	204	228	246	259	267	271	278	299	305	319	339	342	335	313
85	72.4	91.0	111	123	134	161	185	211	226	238	246	258	274	282	294	308	309	304	288
90	36.3	49.5	60.7	68.5	86.3	115	142	176	194	211	222	239	249	259	269	277	276	274	264

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2017-03-06

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.1277A P:14.88W PF:0.9672 Lamp Flux:1778.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C (DEG) \ γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	637	637	637	637	637	637	637	637	637	637	637	637	637	637	637				
5	588	587	587	586	585	586	590	594	598	603	608	613	619	624	629				
10	679	673	664	654	643	630	615	598	584	577	571	573	581	589	599				
15	675	674	671	666	660	655	654	649	621	593	564	549	544	564	585				
20	667	661	650	636	624	616	611	612	615	619	596	572	559	563	580				
25	658	646	629	614	602	593	585	583	584	584	583	578	573	570	561				
30	647	629	611	597	585	576	571	566	564	560	554	556	569	582	548				
35	610	594	583	576	567	558	549	543	537	536	544	553	554	571	537				
40	567	554	547	540	536	529	527	525	522	517	508	503	508	518	484				
45	527	518	513	512	507	499	499	493	486	474	463	468	472	470	433				
50	494	489	486	487	474	472	460	441	431	431	422	415	427	411	379				
55	465	463	463	458	441	436	404	388	383	370	368	369	364	332	327				
60	438	438	440	425	406	387	369	350	334	333	328	327	277	274	253				
65	403	400	404	388	365	359	348	313	304	292	274	248	240	221	196				
70	364	358	361	345	331	327	307	280	254	246	239	220	192	172	156				
75	325	316	319	308	299	289	271	250	222	222	212	188	165	148	126				
80	301	291	287	277	266	254	238	219	197	181	171	156	134	112	86.9				
85	281	269	258	248	232	219	199	175	153	130	123	108	85.9	67.1	50.1				
90	261	246	229	218	199	185	164	134	104	80.8	69.6	59.3	46.1	34.0	24.6				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2017-03-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks: