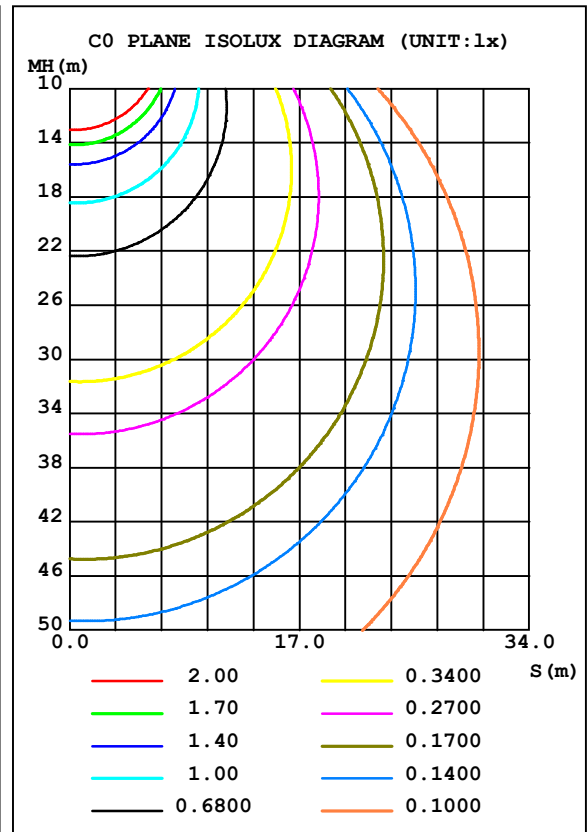
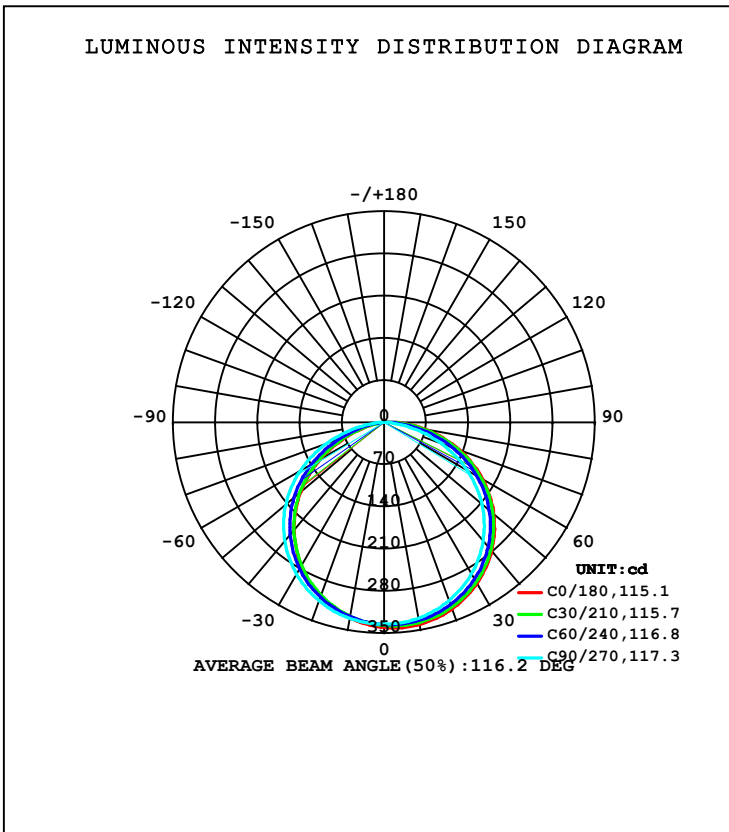


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:12.00V I:1.004A P:12.05W PF:1.0000 Lamp Flux:998.228x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 120LED	DIM.: 1000*8*1MM	SERIAL No.:2015110400
MFR.:	SUR.:1000*8mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
Eff: 82.84 lm/W					
MODEL	T28WW120B-12 (WCP) -10-HR	I <sub>max</sub> (cd)	342.2	S/MH (C0/180)	1.21
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	DC 12	TOTAL FLUX (lm)	998.23	η UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	998.228	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.7
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	12	η down (%)	99.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

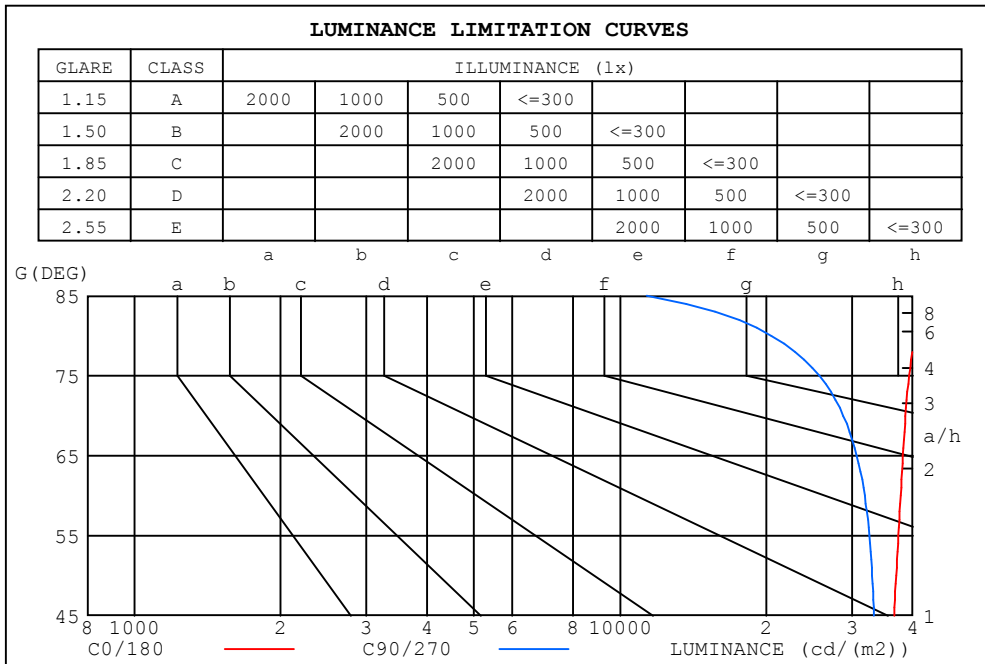
ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	340.4	336.0	329.9	328.5	329.3	326.8	330.1	337.3	0- 10	31.92	31.92	3.2,3.2
20	329.8	325.2	315.1	308.8	307.3	306.8	315.4	326.4	10- 20	91.87	123.8	12.4,12.4
30	309.0	304.2	290.4	278.7	274.9	276.6	290.9	305.0	20- 30	140.6	264.4	26.5,26.5
40	278.1	273.4	256.1	238.7	232.8	236.6	256.8	273.8	30- 40	171.7	436.1	43.7,43.7
50	237.8	233.1	212.3	189.4	181.3	187.4	213.2	233.4	40- 50	180.8	616.8	61.8,61.8
60	189.1	183.8	159.3	131.4	121.7	129.5	160.4	184.0	50- 60	165.4	782.2	78.4,78.4
70	132.3	126.2	98.56	67.46	58.28	66.40	99.79	126.3	60- 70	126.2	908.5	91,91
80	70.36	63.83	35.61	11.35	6.275	10.80	37.03	63.78	70- 80	69.98	978.4	98,98
90	14.56	9.392	0	0	0	0	0	9.133	80- 90	19.01	997.5	99.9,99.9
100	0	0	0	0	0	0	0	0	90-100	0.7750	998.2	100,100
110	0	0	0	0	0	0	0	0	100-110	0	998.2	100,100
120	0	0	0	0	0	0	0	0	110-120	0	998.2	100,100
130	0	0	0	0	0	0	0	0	120-130	0	998.2	100,100
140	0	0	0	0	0	0	0	0	130-140	0	998.2	100,100
150	0	0	0	0	0	0	0	0	140-150	0	998.2	100,100
160	0	0	0	0	0	0	0	0	150-160	0	998.2	100,100
170	0	0	0	0	0	0	0	0	160-170	0	998.2	100,100
180	0	0	0	0	0	0	0	0	170-180	0	998.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES



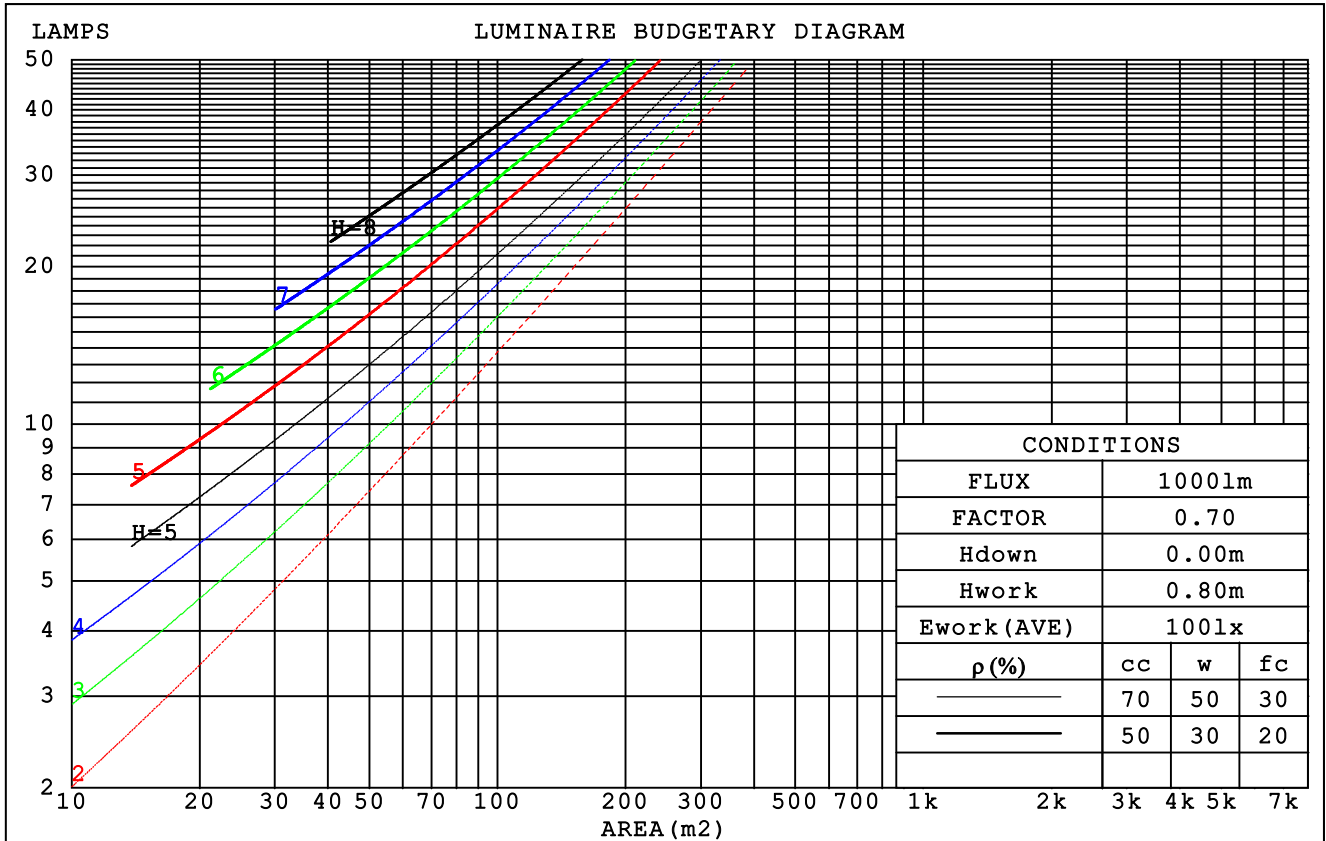
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	46208	11341
80	40521	20506
75	39385	25720
70	38672	28816
65	38203	30705
60	37817	31869
55	37384	32585
50	36995	33032
45	36655	33282

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

$\rho_{cc}$	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	1.04	.99	.96	1.01	.98	.94	.97	.94	.91	.93	.91	.88	.90	.87	.86	.83
2.0	.90	.83	.77	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.43
6.0	.56	.47	.40	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.30	.26	.37	.30	.25	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

WEC AND CCEC

$\rho_{cc}$	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	.312	.177	.056	.305	.174	.055	.291	.167	.053	.279	.161	.052	.268	.155	.050	
2.0	.294	.161	.049	.287	.158	.049	.276	.153	.048	.265	.149	.046	.255	.144	.045	
3.0	.272	.145	.043	.266	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.251	.130	.038	.246	.129	.038	.237	.126	.037	.228	.123	.037	.220	.120	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.212	.112	.033	.205	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.191	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021	

$\rho_{cc}$	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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.157	.135	.155	.135	.116	.106	.093	.080	.061	.054	.047	.020	.017	.015	
2.0	.173	.133	.098	.148	.114	.085	.102	.079	.059	.059	.046	.035	.019	.015	.011	
3.0	.165	.115	.075	.142	.099	.065	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.158	.102	.059	.135	.088	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.048	.129	.079	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.143	.083	.040	.123	.072	.034	.085	.050	.024	.049	.030	.014	.016	.010	.005	
7.0	.136	.076	.034	.117	.066	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.029	.112	.061	.025	.077	.043	.018	.045	.025	.011	.015	.008	.004	
9.0	.124	.065	.026	.107	.057	.022	.074	.040	.016	.043	.024	.009	.014	.008	.003	
10.0	.118	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

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	26.1	27.6	26.3	27.8	28.0	25.5	27.0	25.8	27.2	27.4
3H	28.0	29.4	28.3	29.6	29.9	27.1	28.5	27.4	28.7	29.0
4H	28.8	30.2	29.2	30.4	30.7	27.7	29.0	28.0	29.3	29.5
6H	29.6	30.8	29.9	31.1	31.4	28.0	29.3	28.4	29.6	29.9
8H	29.9	31.1	30.2	31.4	31.7	28.1	29.3	28.4	29.6	29.9
12H	30.1	31.3	30.5	31.6	31.9	28.1	29.3	28.5	29.6	29.9
4H 2H	26.7	28.1	27.1	28.3	28.6	26.3	27.7	26.6	27.9	28.2
3H	28.8	30.0	29.2	30.3	30.6	28.1	29.3	28.5	29.6	29.9
4H	29.9	30.9	30.2	31.3	31.6	28.8	29.9	29.2	30.3	30.6
6H	30.8	31.7	31.2	32.1	32.4	29.4	30.3	29.8	30.7	31.0
8H	31.1	32.0	31.6	32.4	32.8	29.5	30.4	29.9	30.7	31.1
12H	31.5	32.3	31.9	32.7	33.1	29.5	30.4	30.0	30.7	31.1
8H 4H	30.2	31.1	30.6	31.4	31.8	29.3	30.2	29.7	30.6	31.0
6H	31.3	32.0	31.7	32.4	32.9	30.0	30.8	30.5	31.2	31.6
8H	31.8	32.5	32.3	32.9	33.3	30.3	30.9	30.7	31.3	31.8
12H	32.3	32.8	32.8	33.3	33.8	30.4	31.0	30.9	31.4	31.9
12H 4H	30.2	31.0	30.6	31.4	31.8	29.4	30.2	29.8	30.6	31.0
6H	31.4	32.0	31.8	32.4	32.9	30.2	30.8	30.6	31.3	31.7
8H	31.9	32.5	32.4	32.9	33.4	30.5	31.0	31.0	31.5	32.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.1 / - 0.4					+ 0.2 / - 0.5				

CIE Pub.117 Corrected 998.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.0)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

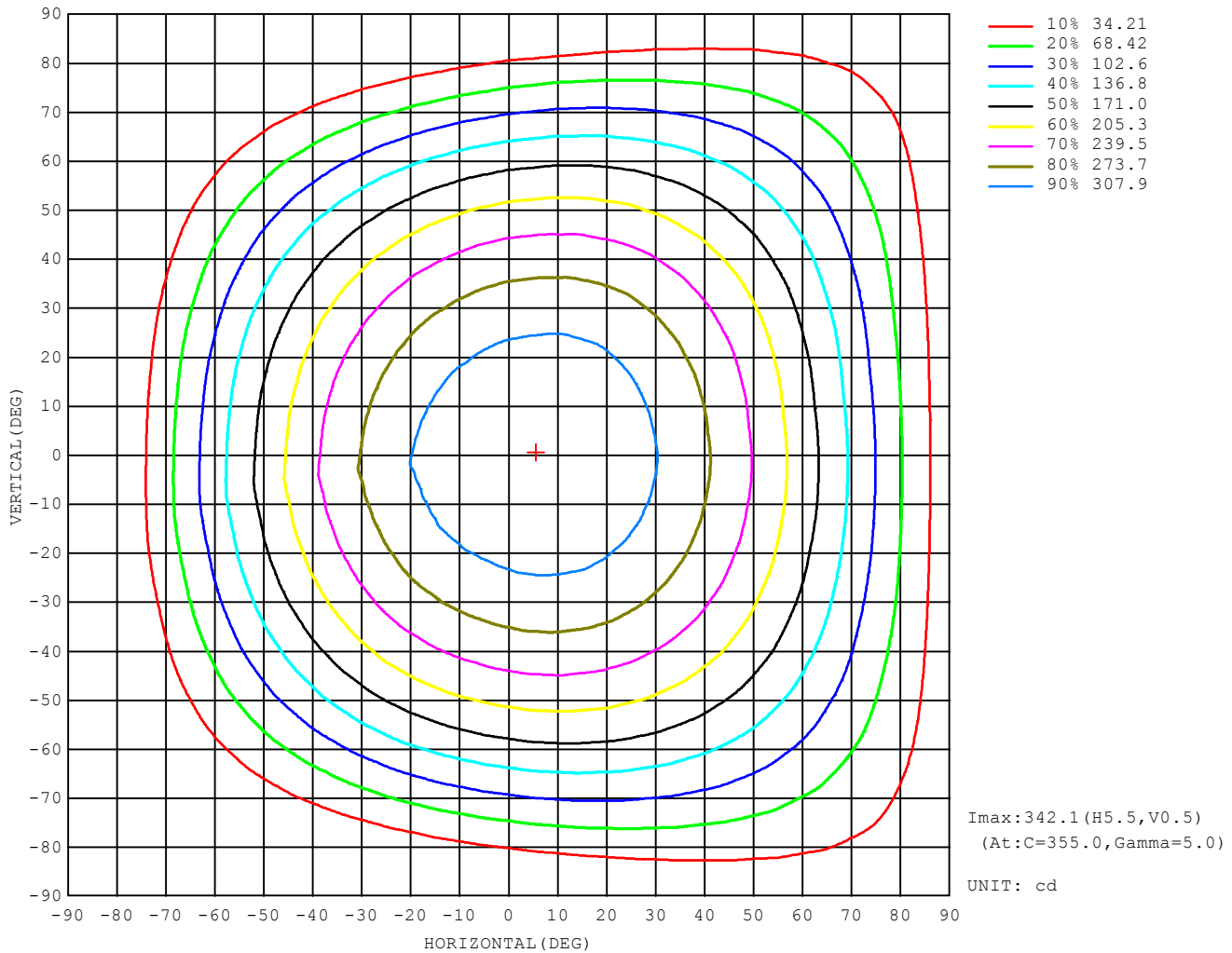
**UTILIZATION FACTORS TABLE**

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	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	74
3.00	102	95	90	100	94	88	96	91	86	78
4.00	106	100	96	104	99	94	99	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

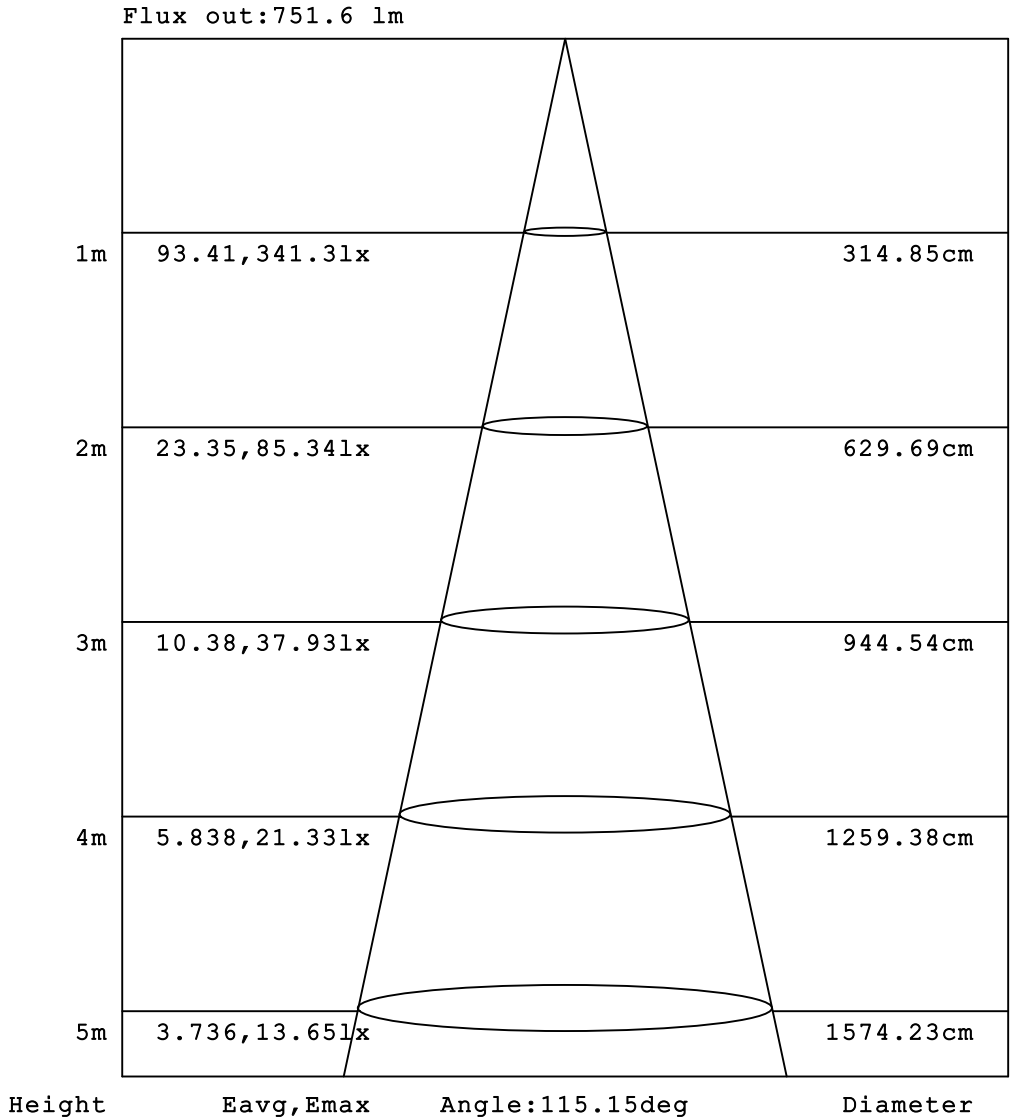


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:



AAI Figure

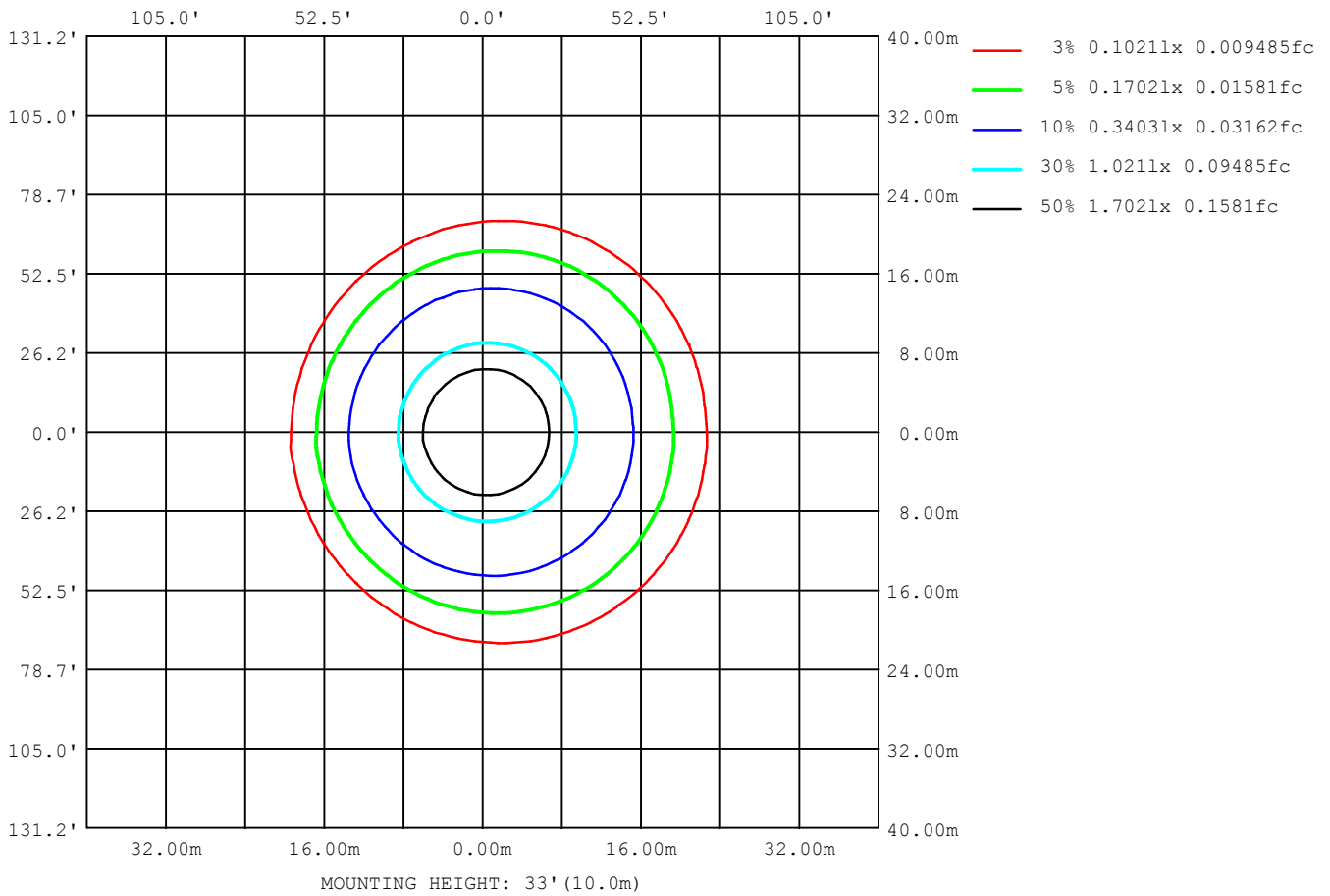


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:12.00V I:1.004A P:12.05W PF:1.0000 Lamp Flux:998.228x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:2835 120LED	DIM.: 1000*8*1MM	SERIAL No.:2015110400
MFR.:	SUR.:1000*8mm	Shielding Angle:

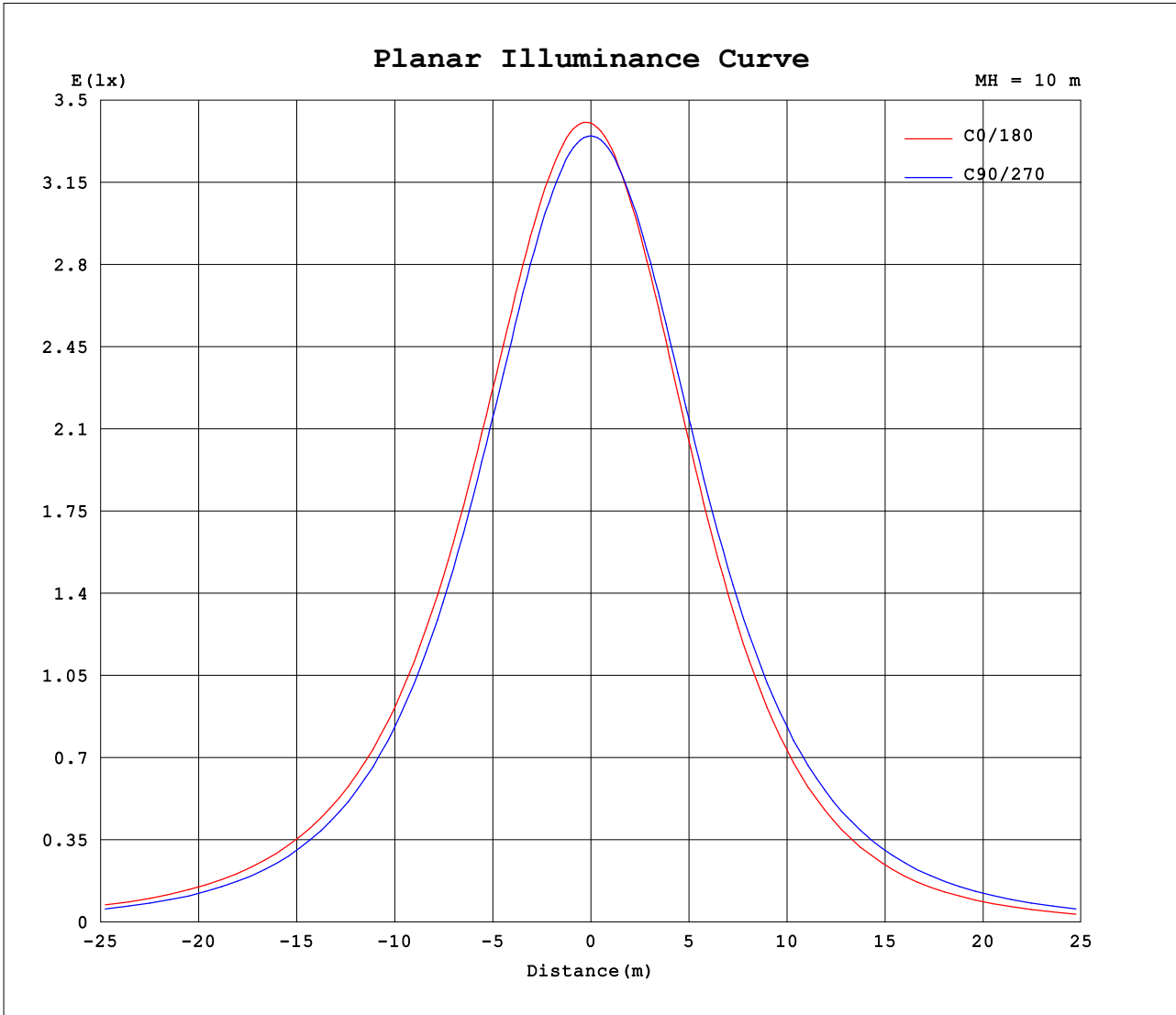
AvgL	cd/m2
L_0~180 (65) av	29751
L_0~180 (75) av	25231
L_0~180 (85) av	23104
L_90~270 (65) av	30840
L_90~270 (75) av	25993
L_90~270 (85) av	11767
L_45 (65) av	30189
L_45 (75) av	25427
L_45 (85) av	19188

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-05

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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	340	340	339	338	338	337	337	337	337	337	336	336	335	335	335	335	335	335	335
5	342	341	340	340	339	339	339	338	338	338	337	337	336	335	335	335	334	334	334
10	340	340	339	339	338	338	337	337	336	336	335	335	334	333	333	332	331	331	330
15	336	336	335	335	334	334	333	333	332	332	331	331	329	328	328	327	326	325	324
20	330	329	329	328	328	328	327	326	326	325	324	324	322	321	320	319	318	317	315
25	321	320	320	319	319	319	318	317	316	316	315	314	312	311	310	309	307	306	304
30	309	309	308	308	307	307	306	306	305	304	303	302	301	299	297	296	294	293	290
35	295	295	294	294	293	293	292	292	291	290	289	288	286	284	282	281	279	277	274
40	278	278	277	277	277	277	276	275	274	273	272	271	269	267	265	264	261	259	256
45	259	259	259	259	258	258	257	257	255	254	253	252	250	248	245	244	241	239	235
50	238	238	237	238	237	237	236	235	234	233	231	230	228	226	223	221	218	216	212
55	214	215	214	214	214	214	212	212	210	210	208	206	204	202	199	197	193	191	187
60	189	190	189	189	188	188	187	187	185	184	182	180	178	176	172	170	166	163	159
65	161	162	161	162	161	161	159	159	157	156	153	152	149	147	144	141	137	134	130
70	132	133	132	133	132	131	130	129	128	126	124	122	119	117	113	110	106	103	98.6
75	102	103	102	102	101	101	99.5	98.8	96.5	95.3	92.5	90.6	87.2	84.9	81.2	78.4	74.2	71.1	66.6
80	70.4	71.5	70.7	71.2	69.9	69.9	68.1	67.5	65.0	63.8	60.8	58.9	55.4	53.2	49.3	46.7	42.7	39.9	35.6
85	40.3	41.1	40.5	40.9	39.7	39.6	38.0	37.2	35.0	33.7	30.9	29.1	26.2	23.9	20.6	18.3	15.2	12.9	9.88
90	14.6	15.2	14.8	15.0	14.2	14.0	12.7	12.1	10.3	9.39	7.39	6.17	4.11	2.80	0.88	0.00	0.00	0.00	0.00
95	0.01	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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	335	335	335	335	336	336	336	337	338	338	338	338	338	338	339	339	341	340	340
5	333	333	333	333	333	333	333	334	334	334	334	334	334	334	335	335	337	336	335
10	329	329	328	328	328	328	328	328	328	328	328	327	328	327	328	328	330	329	328
15	323	322	321	321	321	320	320	320	320	319	319	318	318	318	319	319	321	319	319
20	314	313	312	311	311	310	309	309	309	307	307	306	307	306	307	307	309	307	306
25	303	301	300	299	298	297	296	295	295	293	293	292	292	291	292	292	294	292	291
30	289	287	286	284	283	281	281	280	279	277	276	275	275	274	275	275	277	275	274
35	273	270	269	267	266	264	263	261	260	258	257	256	256	255	256	255	257	255	254
40	254	251	250	248	246	243	242	240	239	236	236	234	234	233	233	233	235	233	232
45	233	230	228	226	224	221	220	217	215	213	212	210	210	209	209	209	211	208	207
50	210	207	204	201	199	196	194	191	189	187	186	184	183	182	182	182	184	181	180
55	184	181	178	175	172	169	167	163	161	159	157	155	155	154	154	153	155	153	151
60	156	153	150	146	143	140	137	134	131	128	127	125	125	123	123	123	125	122	121
65	127	122	119	115	113	108	106	102	99.8	96.7	95.5	93.3	92.8	91.3	91.5	90.7	92.8	90.0	89.1
70	95.2	90.9	87.8	83.5	80.2	76.0	73.2	69.6	67.5	64.7	63.4	61.3	60.8	59.4	59.5	58.9	60.8	58.3	57.2
75	63.4	59.0	55.9	51.4	48.3	44.3	41.8	38.5	36.7	34.3	33.2	31.5	31.0	29.9	30.0	29.6	31.3	28.7	28.0
80	32.9	29.0	26.1	22.1	19.7	16.5	14.8	12.4	11.3	9.58	9.09	7.87	7.82	7.02	7.30	6.86	8.37	6.27	5.89
85	8.26	5.65	3.78	1.66	0.56	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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	339	338	338	337	337	337	337	337	336	336	335	335	335	335	335	335	335	335	335
5	335	334	334	333	333	333	333	333	333	333	333	333	333	333	333	334	334	334	334
10	328	327	327	326	327	326	327	327	327	327	327	327	328	328	329	330	330	330	331
15	318	317	317	317	317	317	318	318	319	319	319	320	321	321	322	323	324	324	325
20	306	305	305	305	305	306	306	307	308	308	309	310	311	312	313	314	315	316	317
25	291	290	291	291	291	291	292	293	294	295	296	297	299	300	301	303	304	305	307
30	274	273	274	274	274	275	276	277	278	279	281	282	284	285	287	289	291	292	294
35	254	253	254	254	255	255	257	258	260	261	263	264	267	268	271	273	275	276	279
40	232	231	232	232	233	234	236	237	239	240	243	245	247	249	252	254	257	258	261
45	207	207	207	208	209	210	212	213	216	217	220	222	225	228	231	233	236	238	241
50	181	180	181	181	183	184	186	187	190	192	195	198	201	203	207	210	213	215	219
55	152	151	152	153	155	155	158	159	162	165	168	171	175	177	181	184	188	190	194
60	121	121	122	122	124	125	128	130	133	135	139	142	146	149	153	156	160	163	167
65	89.5	89.3	90.4	90.8	92.8	93.9	96.5	98.3	102	104	108	111	115	119	123	127	131	134	138
70	57.9	57.5	58.8	59.0	61.0	62.0	64.6	66.4	69.7	72.1	76.0	79.0	83.4	86.8	91.6	95.1	99.8	103	108
75	28.5	28.2	29.3	29.6	31.2	32.1	34.4	35.9	38.9	41.1	44.7	47.5	51.7	55.0	59.6	63.2	68.0	71.3	76.0
80	6.19	6.09	6.69	6.87	7.85	8.40	9.82	10.8	12.8	14.3	17.1	19.2	22.7	25.6	29.5	32.7	37.0	39.7	43.3
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	1.85	3.22	5.69	7.71	10.6	11.5	15.7
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: cd

C (DEG) \ γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	335	335	336	336	336	337	338	338	338	338	338	338	339	339	341				
5	334	335	336	337	337	338	339	339	339	339	340	340	340	341	342				
10	332	333	334	335	335	336	337	337	337	338	338	338	339	339	341				
15	326	328	329	330	331	332	333	333	333	334	334	334	335	335	336				
20	319	320	322	323	324	325	326	326	327	327	328	328	328	329	330				
25	308	310	312	313	314	316	317	317	318	318	318	319	319	319	320				
30	296	298	300	301	302	304	305	305	306	307	307	307	307	308	308				
35	281	283	285	287	288	290	291	291	292	293	293	293	293	293	294				
40	263	266	268	270	272	274	274	275	275	276	276	277	277	277	277				
45	243	247	248	251	253	254	255	256	256	257	257	258	258	258	258				
50	221	225	226	229	231	233	233	235	235	236	236	237	237	237	236				
55	197	200	202	206	207	209	210	211	212	213	213	214	213	213	212				
60	170	174	176	179	181	183	184	186	186	187	187	188	187	188	187				
65	142	145	148	151	153	155	156	158	159	160	160	161	160	160	159				
70	111	115	117	121	122	125	126	128	129	131	131	131	131	131	130				
75	79.0	82.9	85.5	89.0	90.9	93.9	95.3	97.6	98.3	99.9	99.9	101	100	101	99.3				
80	45.9	49.7	52.5	56.7	59.0	62.3	63.8	66.0	66.9	68.5	68.8	69.7	69.3	69.6	68.4				
85	18.3	21.6	24.0	26.9	28.9	31.7	33.2	35.9	36.7	38.4	38.6	39.7	39.2	39.8	38.4				
90	0.02	1.59	2.82	4.84	6.16	8.09	9.13	10.9	11.8	13.1	13.3	14.2	13.9	14.3	13.6				
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01				
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks: