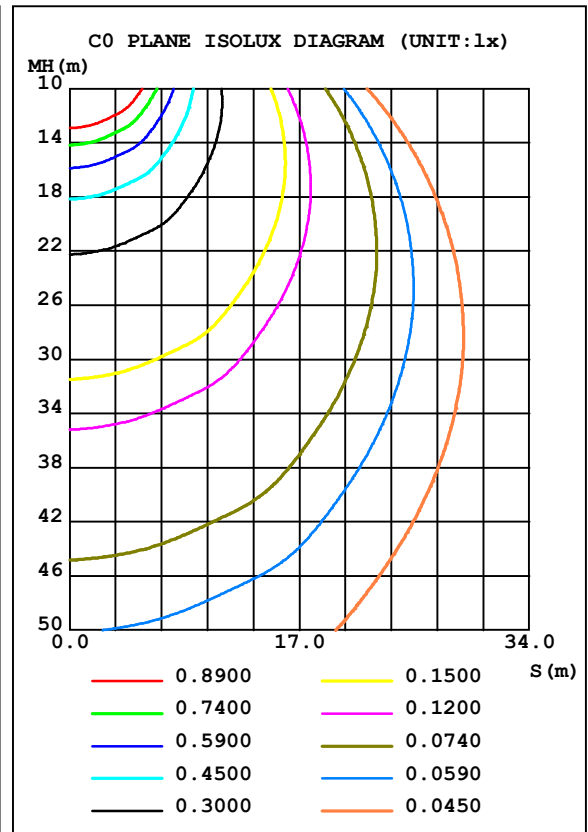
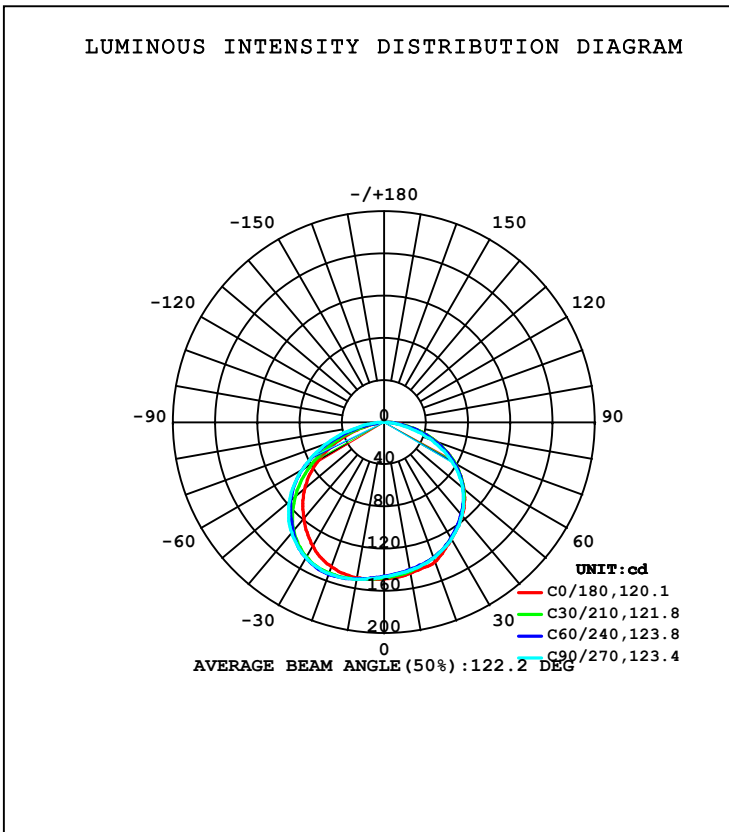


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.99V I:0.6982A P:16.75W PF:1.0000 Lamp Flux:478.203x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:5050RGB 84LED	DIM.: 1000*10*1MM	SERIAL No.:2015110500
MFR.:	SUR.:1000*10mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL: T50XX084B-24 (WCP) -10-HR		Eff: 28.55 lm/W			
NOMINAL POWER(W)	16.5	I <sub>max</sub> (cd)	155.0	S/MH (C0/180)	1.34
RATED VOLTAGE (V)	DC 24	LOR (%)	100.0	S/MH (C90/270)	1.49
NOMINAL FLUX (lm)	478.203	TOTAL FLUX (lm)	478.20	η UP, DN (C0-180)	0.0, 47.2
LAMPS INSIDE	1	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.8
TEST VOLTAGE (V)	24	η up (%)	0.0	CIBSE SHR NOM	1.50
		η down (%)	100.0	CIBSE SHR MAX	1.55



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

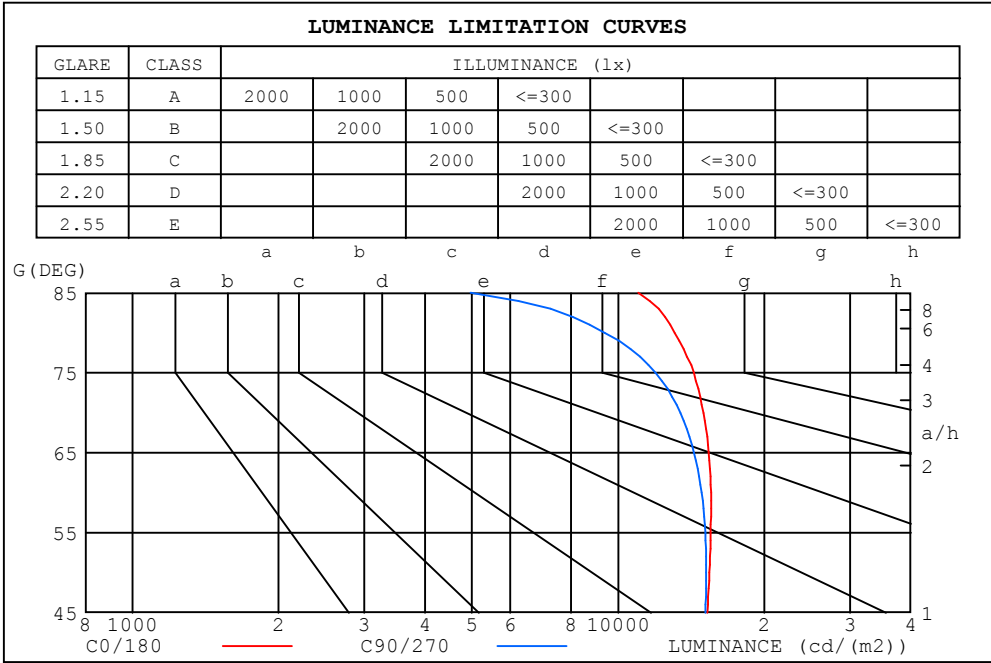
ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	145.4	142.6	142.7	147.5	149.6	151.3	151.0	150.8	0- 10	14.13	14.13	2.95,2.95
20	141.2	136.7	137.1	142.3	146.0	153.6	152.8	146.6	10- 20	41.43	55.56	11.6,11.6
30	128.2	127.0	128.1	132.1	135.7	149.9	148.3	137.5	20- 30	64.99	120.6	25.2,25.2
40	115.4	114.3	115.0	117.8	118.7	138.5	136.7	124.5	30- 40	81.12	201.7	42.2,42.2
50	99.06	98.68	97.59	98.47	98.43	118.2	117.7	108.6	40- 50	87.74	289.4	60.5,60.5
60	77.64	78.20	74.29	71.27	71.60	86.73	89.76	87.54	50- 60	82.61	372.0	77.8,77.8
70	51.20	51.64	45.93	38.82	39.69	49.17	56.93	59.53	60- 70	63.97	436.0	91.2,91.2
80	22.71	23.07	16.31	7.431	7.985	11.80	22.52	28.25	70- 80	34.92	470.9	98.5,98.5
90	0.0167	0.2790	0	0	0	0	0	0.6982	80- 90	7.274	478.2	100,100
100	0	0	0	0	0	0	0	0	90-100	0.0146	478.2	100,100
110	0	0	0	0	0	0	0	0	100-110	0	478.2	100,100
120	0	0	0	0	0	0	0	0	110-120	0	478.2	100,100
130	0	0	0	0	0	0	0	0	120-130	0	478.2	100,100
140	0	0	0	0	0	0	0	0	130-140	0	478.2	100,100
150	0	0	0	0	0	0	0	0	140-150	0	478.2	100,100
160	0	0	0	0	0	0	0	0	150-160	0	478.2	100,100
170	0	0	0	0	0	0	0	0	160-170	0	478.2	100,100
180	0	0	0	0	0	0	0	0	170-180	0	478.2	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



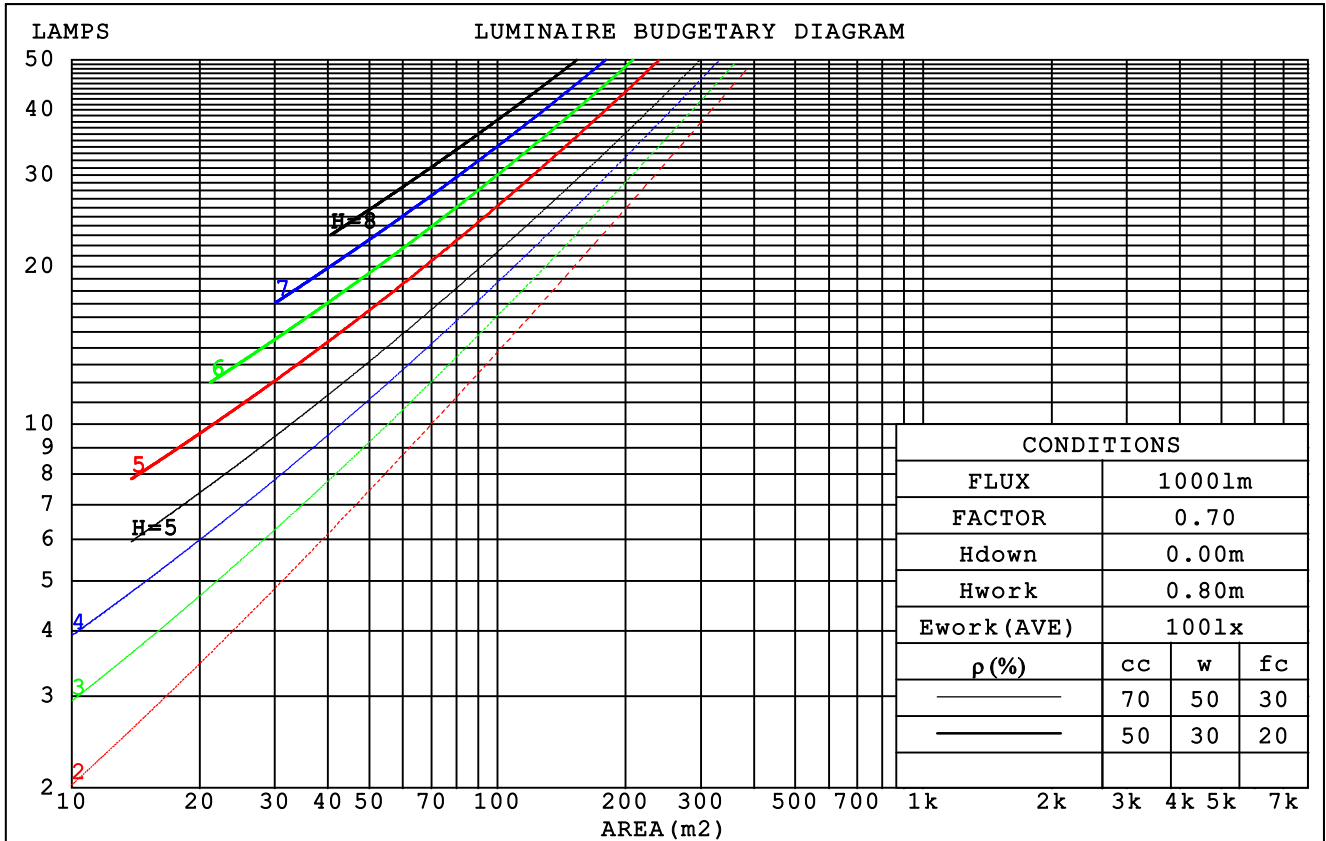
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10996	4968
80	13078	9392
75	14315	11949
70	14970	13428
65	15373	14330
60	15528	14858
55	15503	15115
50	15411	15183
45	15271	15120

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:

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	.95	1.01	.97	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.57
4.0	.69	.60	.53	.68	.60	.53	.65	.58	.52	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.52	.46	.61	.52	.45	.58	.51	.45	.56	.50	.44	.55	.49	.44	.42
6.0	.55	.46	.40	.54	.46	.39	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.34	.46	.39	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.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	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



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	.313	.178	.056	.306	.174	.055	.292	.168	.054	.280	.162	.052	.269	.156	.050	
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.268	.150	.047	.258	.146	.046	
3.0	.275	.146	.044	.269	.144	.043	.259	.140	.043	.249	.137	.042	.240	.133	.041	
4.0	.254	.132	.039	.249	.130	.038	.240	.127	.038	.231	.124	.037	.223	.121	.037	
5.0	.234	.119	.035	.230	.118	.034	.222	.116	.034	.214	.113	.034	.207	.111	.033	
6.0	.217	.109	.031	.213	.108	.031	.206	.106	.031	.199	.104	.030	.193	.102	.030	
7.0	.202	.100	.028	.199	.099	.028	.192	.097	.028	.186	.095	.028	.180	.094	.028	
8.0	.189	.092	.026	.185	.091	.026	.180	.090	.026	.174	.088	.025	.169	.087	.025	
9.0	.177	.085	.024	.174	.085	.024	.169	.083	.024	.164	.082	.023	.159	.081	.023	
10.0	.166	.080	.022	.163	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.022	

$\rho_{cc}$	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	.181	.156	.134	.154	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.101	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.136	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.047	.129	.079	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.144	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.029	.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: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	22.5	24.0	22.8	24.2	24.4	22.4	23.9	22.7	24.1	24.4
3H	24.2	25.7	24.5	25.9	26.1	24.0	25.4	24.3	25.7	25.9
4H	24.9	26.3	25.2	26.5	26.8	24.6	26.0	24.9	26.2	26.5
6H	25.5	26.7	25.8	27.0	27.3	25.0	26.2	25.3	26.5	26.8
8H	25.6	26.9	26.0	27.2	27.4	25.0	26.3	25.4	26.6	26.8
12H	25.7	26.9	26.1	27.2	27.5	25.0	26.2	25.4	26.5	26.8
4H 2H	23.2	24.6	23.5	24.8	25.1	23.1	24.5	23.4	24.7	25.0
3H	25.1	26.3	25.5	26.6	26.9	24.9	26.1	25.3	26.4	26.7
4H	25.9	27.0	26.3	27.4	27.7	25.6	26.7	26.0	27.1	27.4
6H	26.6	27.6	27.0	27.9	28.3	26.1	27.1	26.5	27.5	27.8
8H	26.8	27.7	27.2	28.1	28.5	26.3	27.2	26.7	27.5	27.9
12H	27.0	27.8	27.4	28.2	28.6	26.3	27.1	26.7	27.5	27.9
8H 4H	26.3	27.2	26.7	27.5	27.9	26.0	26.9	26.4	27.3	27.7
6H	27.1	27.8	27.5	28.2	28.7	26.7	27.4	27.1	27.8	28.2
8H	27.4	28.1	27.9	28.5	28.9	26.9	27.5	27.3	28.0	28.4
12H	27.6	28.2	28.1	28.7	29.1	27.0	27.5	27.5	28.0	28.5
12H 4H	26.3	27.1	26.7	27.5	27.9	26.0	26.9	26.5	27.2	27.6
6H	27.2	27.8	27.6	28.2	28.7	26.7	27.4	27.2	27.8	28.3
8H	27.5	28.1	28.0	28.5	29.0	27.0	27.6	27.5	28.0	28.5
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	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 478.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.6)

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:

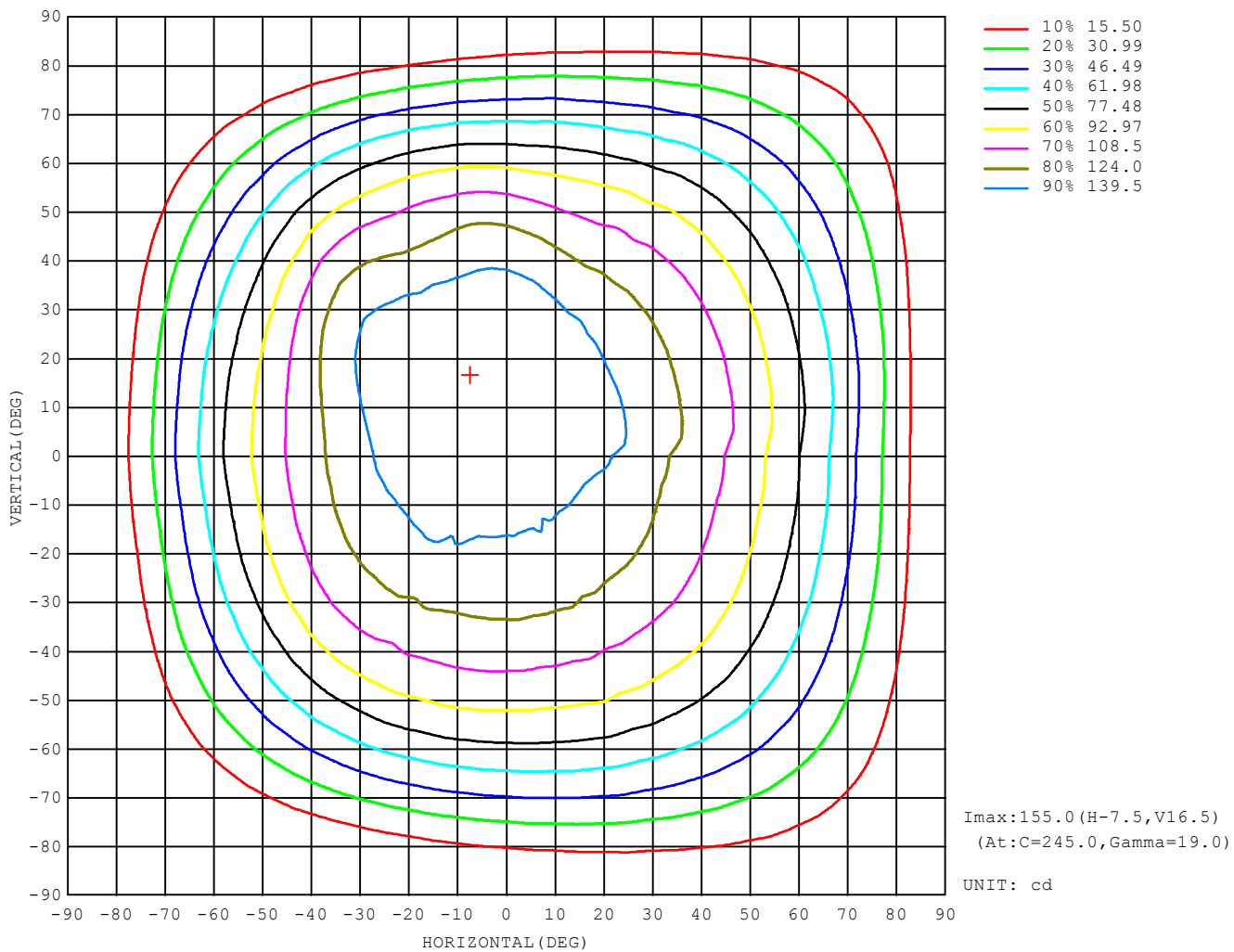
**UTILIZATION FACTORS TABLE**

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) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	63	56	74	63	56	71	64	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	86	76	69	82	74	68	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	96	104	98	94	99	95	91	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

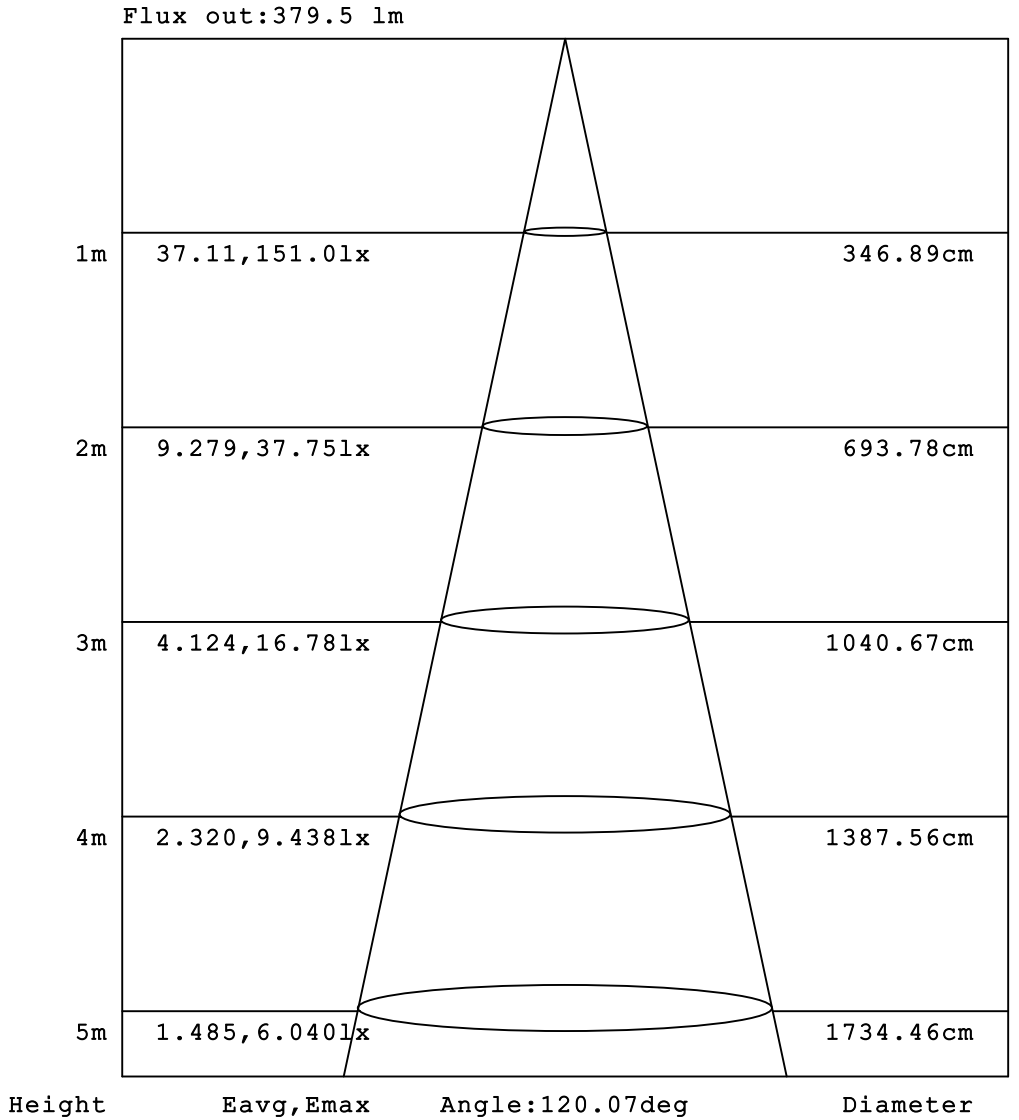


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-05

$\gamma$  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

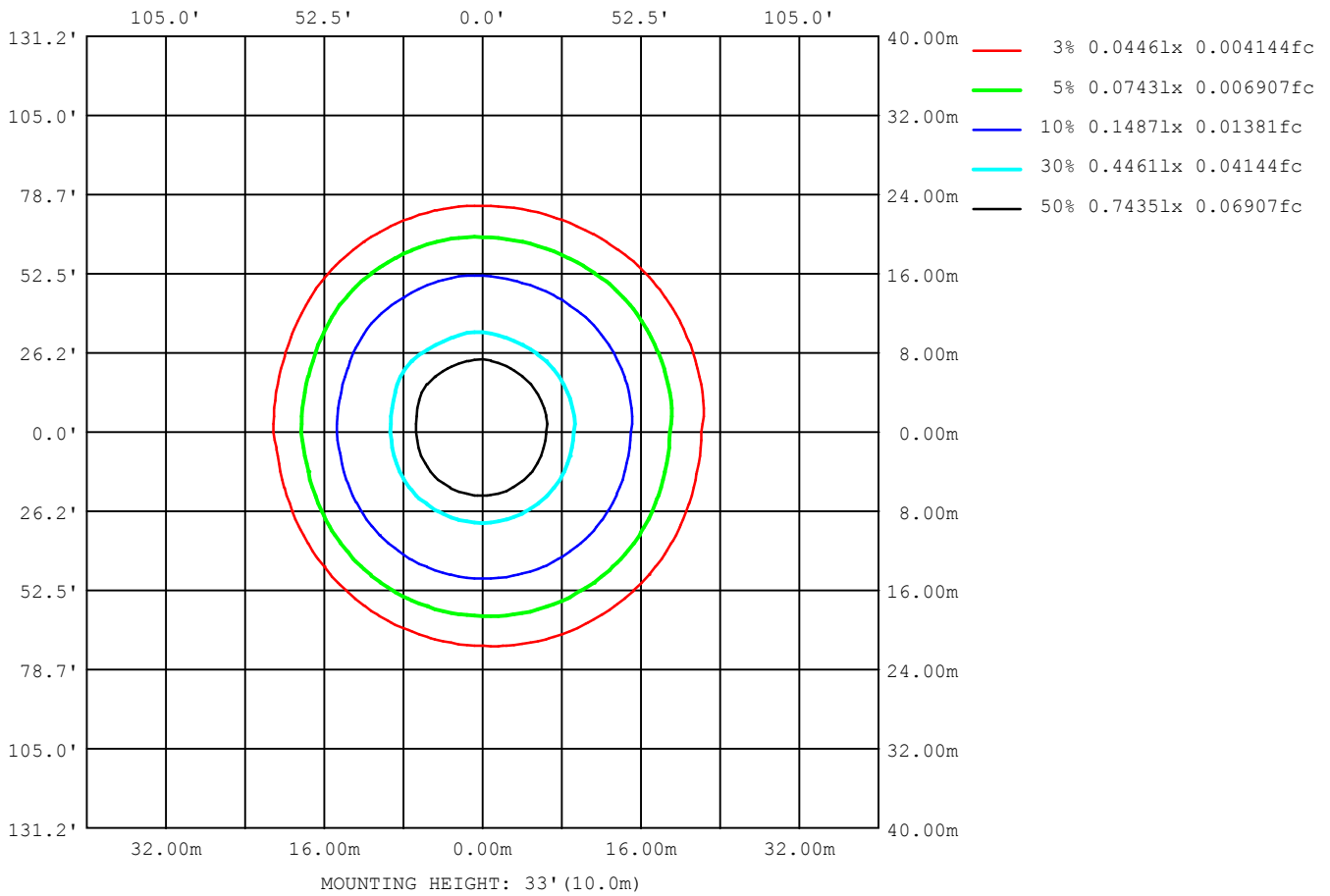


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:23.99V I:0.6982A P:16.75W PF:1.0000 Lamp Flux:478.203x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:5050RGB 84LED	DIM.: 1000*10*1MM	SERIAL No.:2015110500
MFR.:	SUR.:1000*10mm	Shielding Angle:

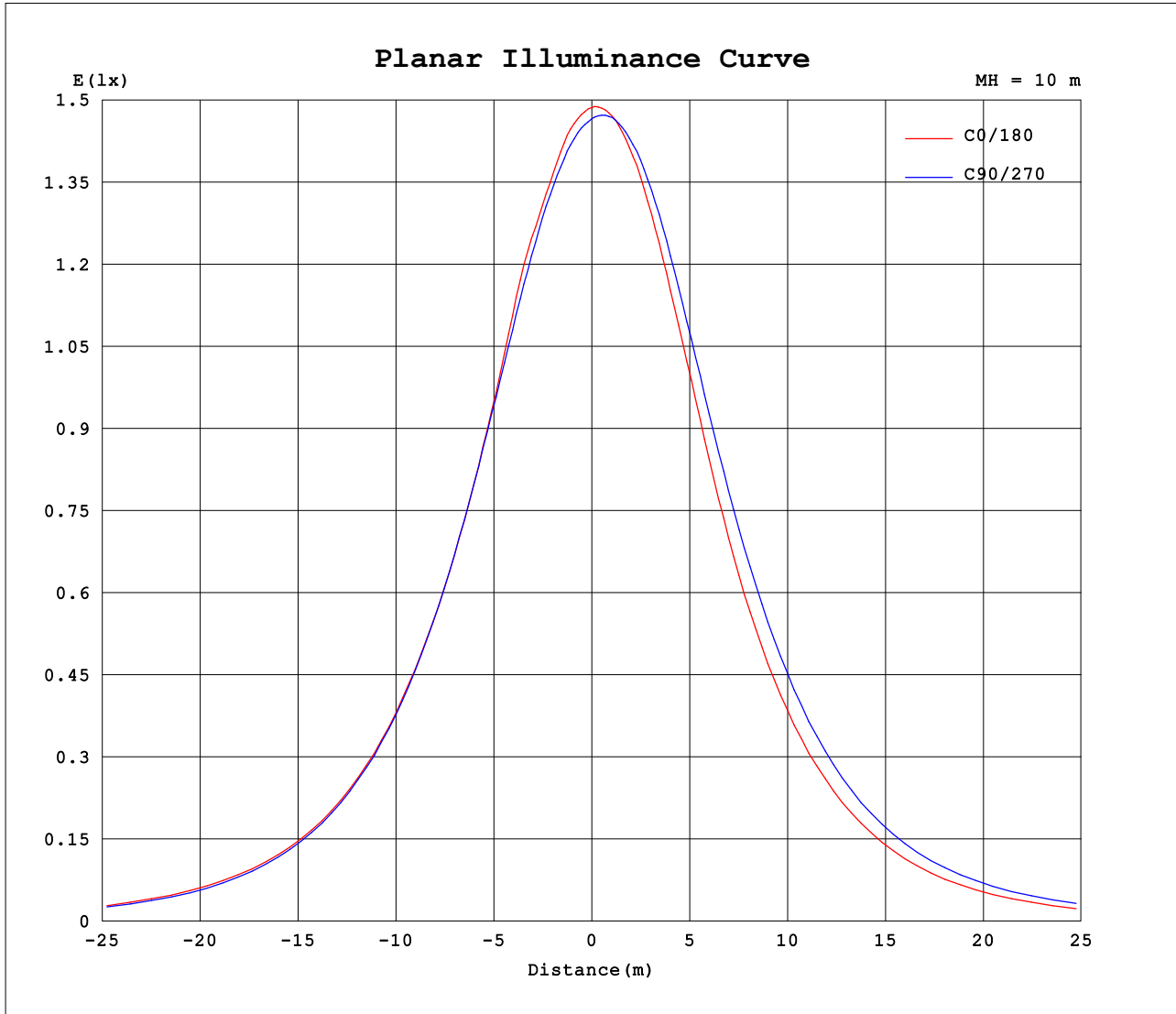
AvgL	cd/m2
L_0~180 (65) av	14318
L_0~180 (75) av	11662
L_0~180 (85) av	5498
L_90~270 (65) av	15887
L_90~270 (75) av	13639
L_90~270 (85) av	6131
L_45 (65) av	15604
L_45 (75) av	12913
L_45 (85) av	6688

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

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:

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	149	148	148	148	148	148	148	147	147	147	147	147	146	147	147	146	147	147	147
5	147	147	146	146	146	146	146	146	145	145	145	145	144	145	144	144	144	145	145
10	145	145	144	144	144	144	143	143	143	143	143	143	142	143	143	142	142	143	143
15	143	142	141	141	141	141	140	140	140	140	140	140	139	141	140	140	140	140	140
20	141	140	139	138	137	137	137	137	137	137	137	137	137	138	137	137	137	137	137
25	135	134	133	133	133	133	133	133	132	132	132	133	132	134	133	133	133	133	133
30	128	128	127	127	127	127	127	127	127	127	127	128	127	128	128	128	128	128	128
35	122	122	121	121	121	121	121	121	121	121	121	121	121	122	122	122	122	122	122
40	115	115	114	114	114	114	114	115	115	114	114	115	114	115	115	115	114	115	115
45	108	108	107	107	107	107	107	107	107	107	107	107	106	108	107	107	106	107	107
50	99.1	98.8	98.0	98.1	98.2	98.6	98.7	99.1	98.9	98.7	98.5	98.6	97.9	99.1	97.8	97.9	97.4	97.8	97.6
55	88.9	88.8	88.2	88.3	88.5	88.9	89.0	89.5	89.3	89.2	88.9	89.0	88.2	88.9	88.0	87.5	87.0	87.1	86.7
60	77.6	77.6	77.1	77.3	77.4	77.9	78.0	78.5	78.3	78.2	77.8	77.9	76.9	77.5	76.6	76.0	75.3	75.0	74.3
65	65.0	65.1	64.6	64.8	64.9	65.4	65.4	66.0	65.6	65.6	65.1	65.1	64.1	64.4	63.4	63.0	62.0	61.6	60.6
70	51.2	51.3	50.9	51.1	51.3	51.7	51.7	52.1	51.7	51.6	51.1	51.0	50.0	50.3	49.1	48.7	47.6	47.0	45.9
75	37.0	37.2	36.9	37.1	37.2	37.6	37.4	37.8	37.3	37.2	36.7	36.5	35.4	35.6	34.5	33.9	32.7	32.2	30.9
80	22.7	23.1	22.7	23.0	23.0	23.5	23.2	23.6	23.0	23.1	22.3	22.1	21.1	21.2	20.0	19.5	18.2	17.6	16.3
85	9.58	9.90	9.70	10.0	10.1	10.4	10.3	10.6	10.1	10.1	9.60	9.44	8.64	8.57	7.62	7.06	6.03	5.39	4.33
90	0.02	0.29	0.19	0.40	0.43	0.64	0.48	0.66	0.30	0.28	0.02	0.00	0.01	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--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	147	147	147	147	148	150	150	150	151	150	150	150	151	151	151	151	151	149	148
5	145	145	145	145	146	148	148	149	149	149	149	150	150	150	151	151	151	149	149
10	143	143	143	143	144	146	144	147	147	148	148	148	149	149	150	150	151	150	150
15	140	141	141	141	142	143	142	144	145	145	146	146	147	147	148	149	149	149	149
20	137	137	137	138	139	140	139	142	142	142	143	143	143	144	144	145	146	146	147
25	133	133	133	133	135	136	135	137	138	138	138	138	139	139	140	141	142	142	143
30	128	128	128	128	129	131	130	132	132	132	132	133	133	133	134	134	135	136	137
35	122	122	122	122	123	124	123	125	125	125	126	126	126	126	127	126	127	128	128
40	115	115	115	115	115	116	115	117	118	118	119	118	118	118	118	118	118	119	119
45	107	107	107	107	107	108	107	108	109	109	110	109	109	108	108	108	108	109	109
50	97.8	97.8	97.9	97.5	97.5	98.2	96.7	98.0	98.5	98.3	98.4	97.5	97.3	96.6	96.7	96.4	97.0	98.4	98.6
55	86.8	86.6	86.8	86.1	86.2	86.5	85.7	85.6	85.8	85.3	85.0	84.2	83.9	83.3	83.3	83.2	83.9	86.0	85.9
60	74.2	73.7	73.6	72.8	72.9	72.7	72.1	71.4	71.3	70.5	70.2	69.3	69.1	68.5	68.6	68.5	69.3	71.6	71.6
65	60.3	59.5	59.1	58.2	58.0	57.4	56.7	55.7	55.4	54.5	54.2	53.2	53.0	52.4	52.6	52.5	53.3	56.1	56.1
70	45.3	44.4	43.7	42.6	42.0	41.2	40.3	39.3	38.8	37.9	37.4	36.6	36.4	35.8	36.0	35.9	36.6	39.7	39.6
75	30.2	29.0	28.2	26.8	26.1	24.9	24.0	23.0	22.5	21.5	21.1	20.3	20.1	19.7	19.9	19.8	20.4	23.3	23.2
80	15.6	14.4	13.5	11.9	11.1	9.81	8.93	7.93	7.43	6.45	6.15	5.33	5.28	4.75	4.97	4.73	5.31	7.99	7.76
85	3.82	2.66	1.78	0.56	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
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	148	148	148	148	148	147	147	147	147	147	146	147	147	146	147	147	147	147	147
5	149	149	149	149	149	149	149	149	149	149	148	150	149	149	149	149	149	149	149
10	150	150	150	151	151	151	151	151	151	152	151	152	152	151	151	152	151	151	151
15	149	150	151	151	152	153	153	153	153	154	153	154	154	153	153	153	152	152	152
20	147	148	150	151	152	153	154	154	154	154	154	155	154	154	154	153	153	152	152
25	144	146	147	149	151	152	153	153	153	153	152	153	152	152	152	152	151	151	150
30	138	140	142	145	147	149	150	150	150	150	149	150	149	148	149	149	148	147	147
35	130	132	135	138	142	144	145	145	145	144	143	144	143	143	144	144	143	142	141
40	121	123	126	130	134	136	139	138	137	136	135	135	135	136	137	137	137	135	133
45	111	113	116	119	123	127	130	130	129	127	125	126	126	128	130	129	128	126	124
50	99.6	101	103	106	110	114	117	118	118	117	116	116	117	118	119	119	118	115	113
55	86.9	87.8	89.7	91.9	95.6	98.5	102	104	105	104	104	105	106	106	107	106	105	102	101
60	72.4	73.2	74.6	76.3	79.3	81.7	85.2	86.7	88.4	89.1	89.5	90.4	91.0	91.1	91.7	91.0	89.8	88.4	88.0
65	56.8	57.4	58.5	59.8	62.2	64.1	66.9	68.5	70.2	71.3	72.2	73.2	73.8	74.1	74.6	74.1	73.7	73.2	73.6
70	40.3	40.6	41.5	42.4	44.3	45.5	48.0	49.2	51.3	52.3	53.6	54.3	55.4	55.7	56.7	56.6	56.9	57.1	58.0
75	23.7	23.8	24.4	25.0	26.4	27.1	29.1	30.0	31.8	32.9	34.3	35.0	36.3	37.0	38.2	38.7	39.7	40.3	41.4
80	8.04	7.99	8.23	8.48	9.36	9.79	11.2	11.8	13.3	14.2	15.7	16.4	17.9	18.8	20.3	21.2	22.5	23.3	24.3
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.32	1.74	2.59	4.04	4.97	6.36	7.18	8.61
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	147	147	148	150	150	150	151	150	150	150	151	151	151	151	151				
5	149	149	149	151	151	151	151	151	151	150	150	150	150	150	150				
10	150	150	150	151	151	151	151	150	150	149	149	149	149	149	148				
15	151	150	150	151	150	150	149	148	148	147	147	146	146	146	145				
20	150	150	149	149	148	147	147	145	145	144	144	145	145	145	144				
25	148	147	146	146	144	144	143	141	141	141	141	140	140	139	138				
30	145	143	142	141	139	139	137	137	136	135	134	134	133	132	131				
35	139	137	135	134	133	133	132	131	130	129	128	127	127	126	125				
40	131	128	127	127	126	125	124	124	123	122	121	121	120	119	119				
45	121	119	118	118	117	118	117	116	115	115	114	113	113	112	111				
50	111	110	109	110	108	109	109	108	107	107	106	105	104	104	103				
55	99.8	99.3	98.9	99.7	98.7	99.4	98.8	98.6	97.7	97.1	96.1	95.5	94.4	93.8	92.7				
60	87.4	87.4	87.4	87.6	86.9	88.0	87.5	87.3	86.3	85.8	84.8	84.2	83.1	82.5	81.4				
65	73.4	73.4	73.2	73.8	73.6	74.7	74.3	74.2	73.4	73.0	72.1	71.6	70.6	70.0	69.0				
70	57.7	57.9	57.9	58.9	58.7	59.8	59.5	59.7	59.0	58.8	57.9	57.6	56.6	56.2	55.2				
75	41.1	41.7	42.1	43.0	42.9	43.9	44.0	44.2	43.8	43.7	43.0	42.7	41.9	41.6	40.6				
80	24.5	25.5	26.0	27.0	27.2	28.1	28.3	28.6	28.4	28.4	28.0	27.8	27.2	27.0	26.2				
85	9.11	10.3	10.8	11.9	12.2	13.0	13.2	13.7	13.6	13.9	13.5	13.6	13.1	13.1	12.4				
90	0.00	0.00	0.00	0.00	0.01	0.47	0.70	1.26	1.33	1.72	1.63	1.89	1.70	1.85	1.51				
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				
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: