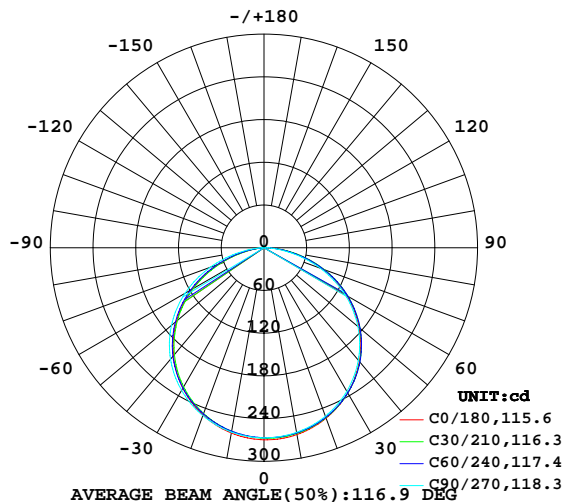


LUMINAIRE PHOTOMETRIC TEST REPORT

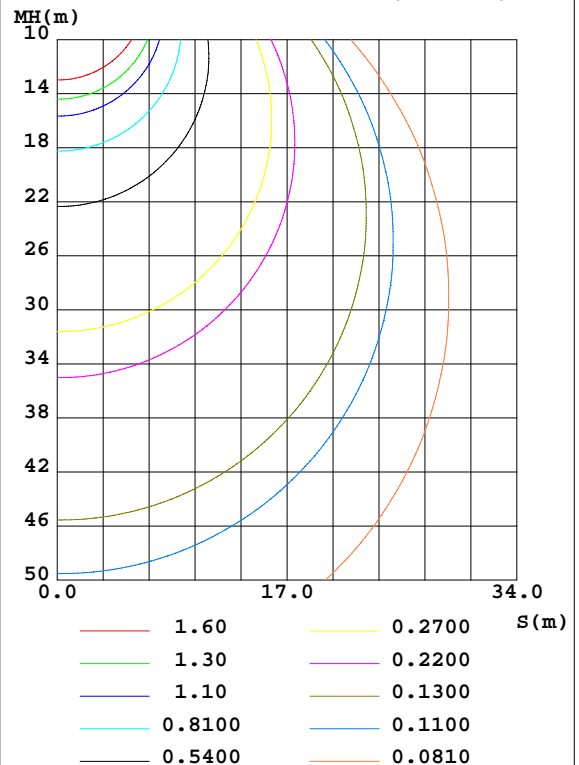
Test:U:12.00V I:0.8198A P:9.836W PF:1.0000 Lamp Flux:1342.94x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:25g
SPEC.:2835 60LED WW	DIM.: 1000*8*1MM	SERIAL No.:2015062901
MFR.:	SUR.:1000*8mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.68 lm/W			
MODEL	060B-12(WCP)-10-HR	Imax(cd)	270.7	S/MH(C0/180)	1.26
NOMINAL POWER(W)	14.4	LOR(%)	60.6	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	DC 24	TOTAL FLUX(lm)	813.16	η UP,DN(C0-180)	0.4,30.1
NOMINAL FLUX(lm)	1342.94	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,29.7
LAMPS INSIDE	1	η up(%)	0.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	59.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-29

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

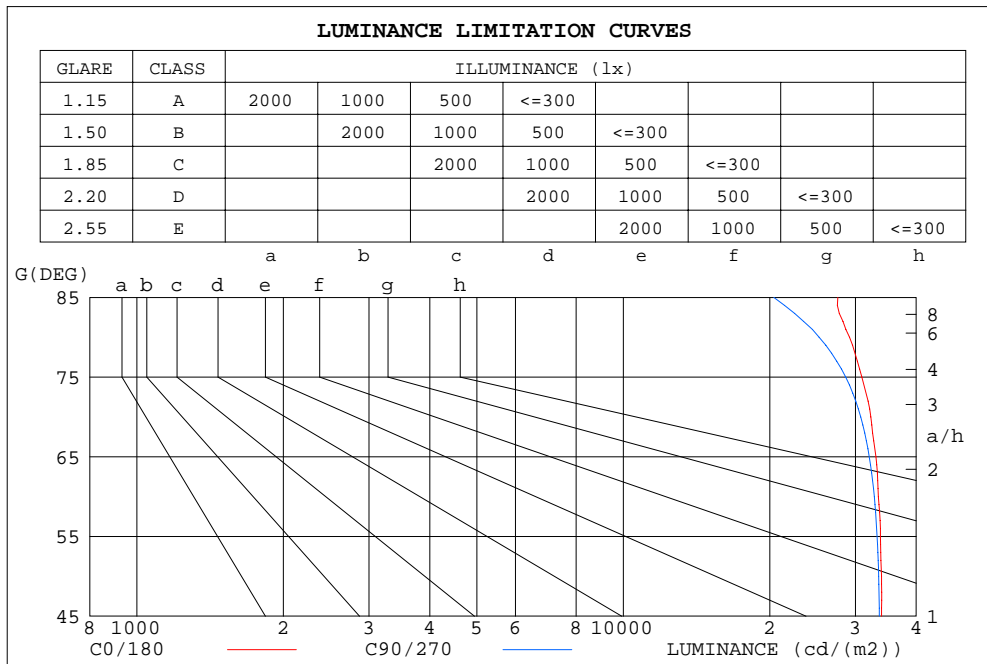
ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	266.5	264.7	263.3	265.2	264.2	261.6	262.9	267.8	0- 10	25.42	25.42	3.13,1.89
20	254.9	254.2	251.9	251.9	250.1	247.8	251.0	257.0	10- 20	73.18	98.60	12.1,7.34
30	235.3	235.9	232.8	230.4	228.0	226.1	231.5	238.1	20- 30	112.1	210.7	25.9,15.7
40	208.5	210.0	206.2	200.8	197.7	196.6	204.3	211.4	30- 40	137.1	347.7	42.8,25.9
50	174.5	176.9	172.2	163.8	160.2	159.6	169.7	177.5	40- 50	144.7	492.5	60.6,36.7
60	133.8	136.6	131.2	119.5	116.1	115.7	128.0	136.7	50- 60	133.2	625.6	76.9,46.6
70	88.32	90.84	84.19	70.43	67.18	66.81	80.38	90.20	60- 70	102.9	728.5	89.6,54.2
80	40.54	42.42	35.11	22.81	20.52	20.03	31.17	40.58	70- 80	58.27	786.8	96.8,58.6
90	4.528	5.141	1.764	1.236	1.018	1.174	1.393	4.826	80- 90	15.49	802.3	98.7,59.7
100	0.9453	0.8312	0.9186	0.9103	0.9264	0.9705	0.9732	0.9030	90-100	1.381	803.7	98.8,59.8
110	1.049	1.102	1.228	1.252	1.280	1.334	1.326	1.180	100-110	1.110	804.8	99,59.9
120	1.407	1.452	1.587	1.610	1.634	1.692	1.689	1.531	110-120	1.383	806.2	99.1,60
130	1.753	1.775	1.931	1.956	1.973	2.028	2.025	1.867	120-130	1.559	807.7	99.3,60.1
140	2.090	2.116	2.262	2.277	2.286	2.329	2.335	2.193	130-140	1.602	809.3	99.5,60.3
150	2.414	2.437	2.568	2.555	2.565	2.589	2.617	2.495	140-150	1.493	810.8	99.7,60.4
160	2.722	2.728	2.829	2.801	2.822	2.822	2.864	2.761	150-160	1.229	812.0	99.9,60.5
170	3.020	2.987	3.041	3.044	3.075	3.041	3.062	2.995	160-170	0.8223	812.9	100,60.5
180	3.208	3.167	3.167	3.167	3.212	3.165	3.167	3.165	170-180	0.2949	813.2	100,60.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:4.950m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



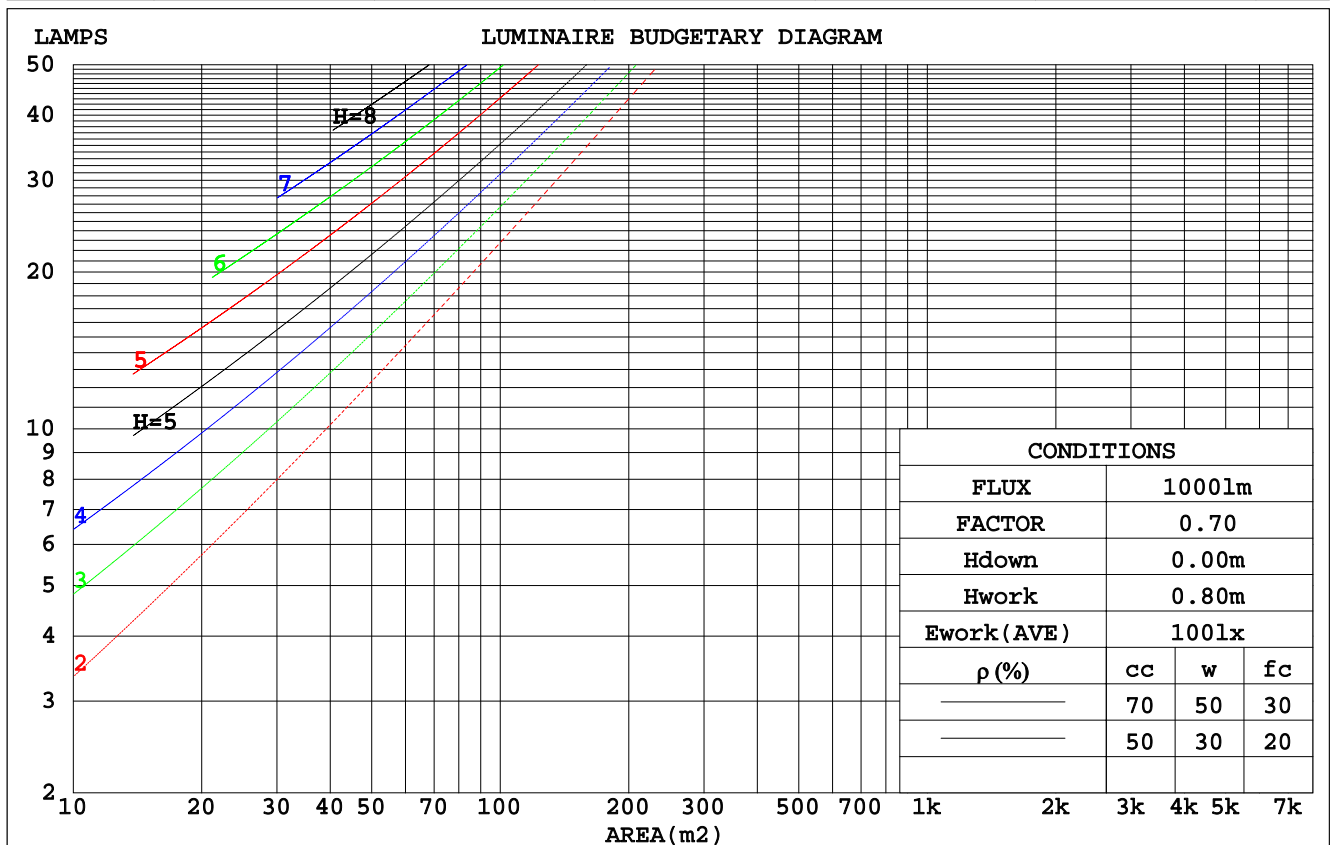
LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	27602	20391
80	29184	25271
75	30924	28643
70	32277	30769
65	33054	32036
60	33447	32800
55	33780	33246
50	33938	33493
45	33954	33597

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-29

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

pcc	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						Coefficients of Utilization(CU)									
0.0	.72	.72	.72	.70	.70	.70	.67	.67	.67	.64	.64	.64	.61	.61	.61	.60
1.0	.63	.60	.58	.61	.59	.57	.58	.56	.55	.56	.54	.53	.54	.52	.51	.50
2.0	.54	.50	.47	.53	.49	.46	.51	.48	.45	.49	.46	.44	.47	.45	.43	.41
3.0	.48	.43	.39	.47	.42	.38	.45	.41	.37	.43	.39	.37	.41	.38	.36	.35
4.0	.42	.37	.33	.41	.36	.32	.40	.35	.32	.38	.34	.31	.37	.33	.31	.29
5.0	.38	.32	.28	.37	.32	.28	.35	.31	.27	.34	.30	.27	.33	.29	.27	.25
6.0	.34	.28	.24	.33	.28	.24	.32	.27	.24	.31	.27	.24	.30	.26	.23	.22
7.0	.31	.25	.21	.30	.25	.21	.29	.24	.21	.28	.24	.21	.27	.23	.21	.19
8.0	.28	.23	.19	.27	.22	.19	.26	.22	.19	.26	.22	.19	.25	.21	.18	.17
9.0	.25	.20	.17	.25	.20	.17	.24	.20	.17	.24	.20	.17	.23	.19	.17	.15
10.0	.23	.19	.15	.23	.19	.15	.22	.18	.15	.22	.18	.15	.21	.18	.15	.14



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-29

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:

WEC AND CCEC

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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.190	.108	.034	.185	.106	.034	.177	.101	.032	.169	.097	.031	.162	.094	.030		
2.0	.178	.098	.030	.174	.096	.030	.167	.093	.029	.160	.090	.028	.153	.087	.027		
3.0	.165	.088	.026	.161	.086	.026	.155	.084	.025	.149	.081	.025	.143	.079	.024		
4.0	.152	.079	.023	.149	.078	.023	.143	.076	.023	.138	.074	.022	.132	.072	.022		
5.0	.141	.072	.021	.138	.071	.021	.132	.069	.020	.128	.067	.020	.123	.066	.020		
6.0	.130	.065	.019	.128	.065	.019	.123	.063	.018	.119	.062	.018	.114	.060	.018		
7.0	.121	.060	.017	.119	.059	.017	.115	.058	.017	.111	.057	.017	.107	.056	.016		
8.0	.113	.055	.016	.111	.055	.015	.107	.054	.015	.104	.053	.015	.100	.052	.015		
9.0	.106	.051	.014	.104	.051	.014	.101	.050	.014	.097	.049	.014	.094	.048	.014		
10.0	.100	.048	.013	.098	.047	.013	.095	.046	.013	.092	.046	.013	.089	.045	.013		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.122	.122	.122	.104	.104	.104	.071	.071	.071	.041	.041	.041	.013	.013	.013	
1.0	.116	.101	.087	.099	.086	.075	.068	.059	.052	.039	.034	.030	.012	.011	.010	
2.0	.111	.086	.065	.095	.074	.057	.065	.051	.039	.037	.030	.023	.012	.010	.008	
3.0	.106	.076	.051	.091	.065	.044	.062	.045	.031	.036	.026	.018	.012	.009	.006	
4.0	.102	.068	.041	.087	.058	.036	.060	.041	.025	.035	.024	.015	.011	.008	.005	
5.0	.097	.061	.035	.083	.053	.030	.057	.037	.021	.033	.022	.013	.011	.007	.004	
6.0	.093	.056	.030	.080	.049	.026	.055	.034	.018	.032	.020	.011	.010	.007	.004	
7.0	.089	.052	.026	.076	.045	.023	.053	.032	.016	.031	.019	.010	.010	.006	.003	
8.0	.085	.049	.024	.073	.042	.021	.050	.030	.015	.029	.017	.009	.009	.006	.003	
9.0	.081	.046	.022	.070	.040	.019	.048	.028	.013	.028	.016	.008	.009	.005	.003	
10.0	.078	.043	.020	.067	.037	.017	.046	.026	.012	.027	.016	.007	.009	.005	.002	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-29

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:

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	25.3	26.9	25.6	27.1	27.3	25.3	26.8	25.6	27.0	27.3
3H	27.0	28.4	27.4	28.7	29.0	26.9	28.3	27.3	28.6	28.9
4H	27.7	29.1	28.1	29.4	29.6	27.6	28.9	27.9	29.2	29.5
6H	28.3	29.5	28.6	29.8	30.1	28.0	29.3	28.4	29.6	29.9
8H	28.5	29.7	28.8	30.0	30.3	28.2	29.4	28.5	29.7	30.0
12H	28.6	29.8	29.0	30.1	30.4	28.2	29.4	28.6	29.7	30.1
4H 2H	26.0	27.4	26.4	27.6	27.9	26.0	27.3	26.3	27.6	27.9
3H	27.9	29.1	28.3	29.4	29.7	27.8	29.0	28.2	29.3	29.6
4H	28.8	29.8	29.2	30.2	30.5	28.6	29.7	29.0	30.0	30.4
6H	29.4	30.4	29.9	30.8	31.2	29.2	30.2	29.6	30.5	30.9
8H	29.7	30.6	30.1	31.0	31.4	29.4	30.3	29.8	30.7	31.1
12H	29.9	30.7	30.3	31.1	31.5	29.5	30.3	30.0	30.7	31.2
8H 4H	29.1	30.0	29.5	30.4	30.8	29.0	29.8	29.4	30.2	30.6
6H	29.9	30.7	30.4	31.1	31.6	29.7	30.5	30.2	30.9	31.3
8H	30.3	30.9	30.8	31.4	31.9	30.0	30.7	30.5	31.1	31.6
12H	30.6	31.1	31.1	31.6	32.1	30.2	30.8	30.7	31.2	31.7
12H 4H	29.1	29.9	29.5	30.3	30.8	29.0	29.8	29.4	30.2	30.6
6H	30.0	30.7	30.5	31.1	31.6	29.8	30.5	30.3	30.9	31.4
8H	30.4	31.0	30.9	31.5	32.0	30.1	30.7	30.6	31.2	31.7
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 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1343 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-29

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:

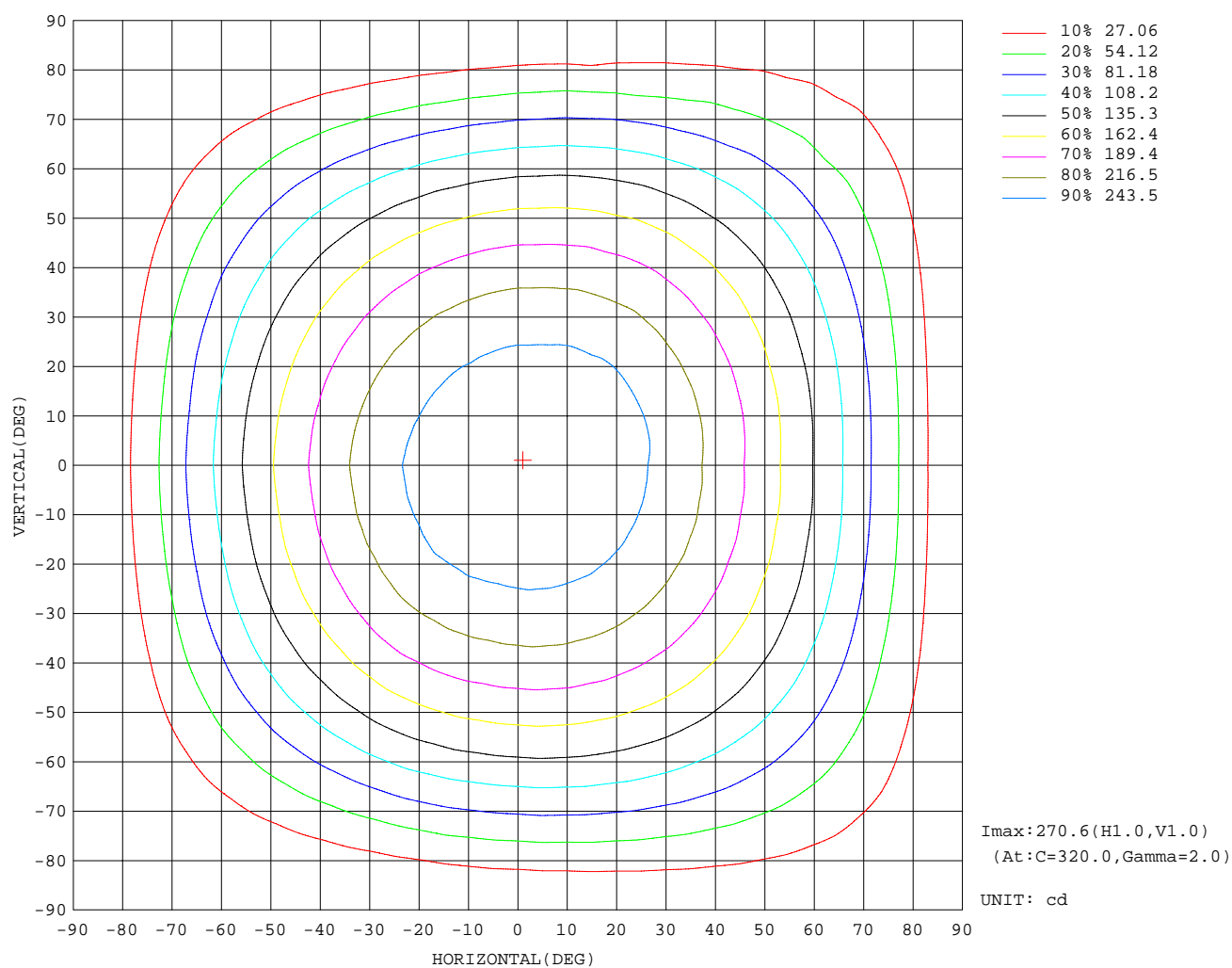
UTILIZATION FACTORS TABLE

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	34	27	23	34	27	23	33	27	23	19
0.80	40	33	29	40	33	28	38	32	28	24
1.00	45	39	34	45	38	34	43	39	33	29
1.25	50	43	39	49	43	39	47	42	38	33
1.50	53	47	42	52	46	42	50	45	41	37
2.00	57	52	48	56	51	47	54	49	46	41
2.50	59	55	51	58	54	50	56	52	49	44
3.00	61	57	54	60	56	53	58	54	52	46
4.00	64	60	58	62	59	57	60	57	55	49
5.00	65	62	60	64	61	59	61	59	57	51
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: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-29

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:

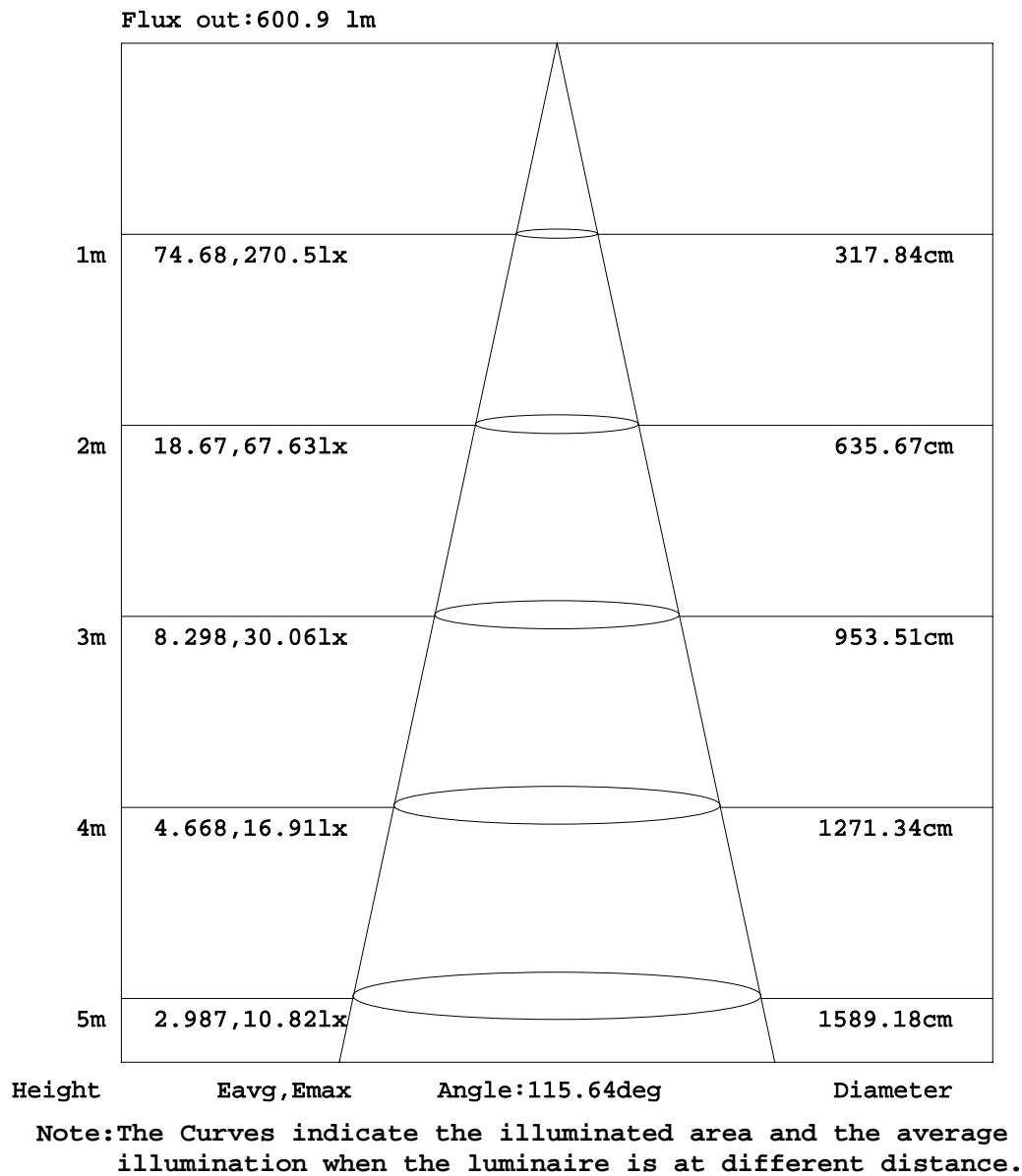
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2015-06-29

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:

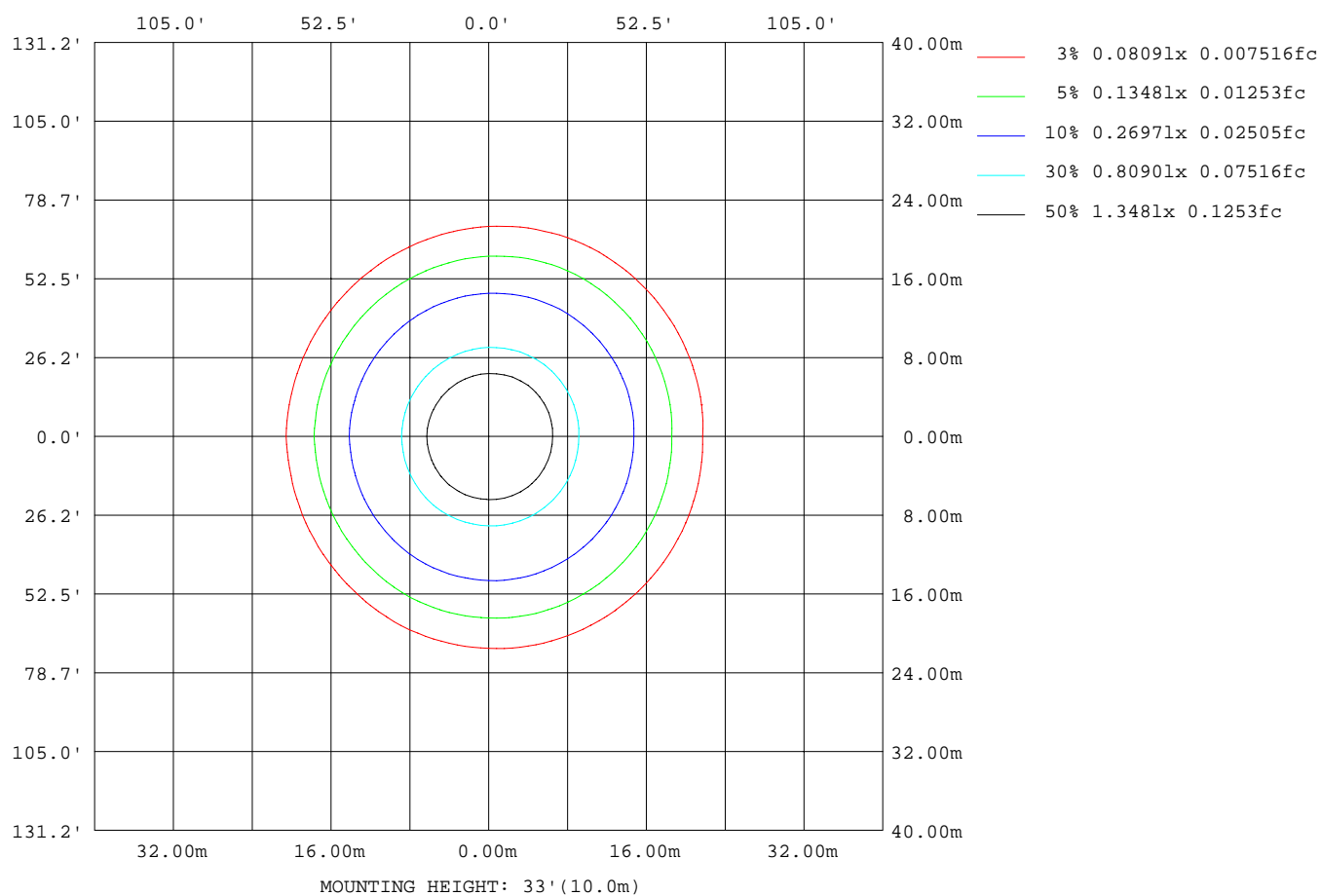
AAI Figure



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-29

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: 2015-06-29

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:

LED Avg.L Report

Test:U:12.00V I:0.8198A P:9.836W PF:1.0000 Lamp Flux:1342.94x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:25g
SPEC.:2835 60LED WW	DIM.: 1000*8*1MM	SERIAL No.:2015062901
MFR.:	SUR.:1000*8mm	Shielding Angle:

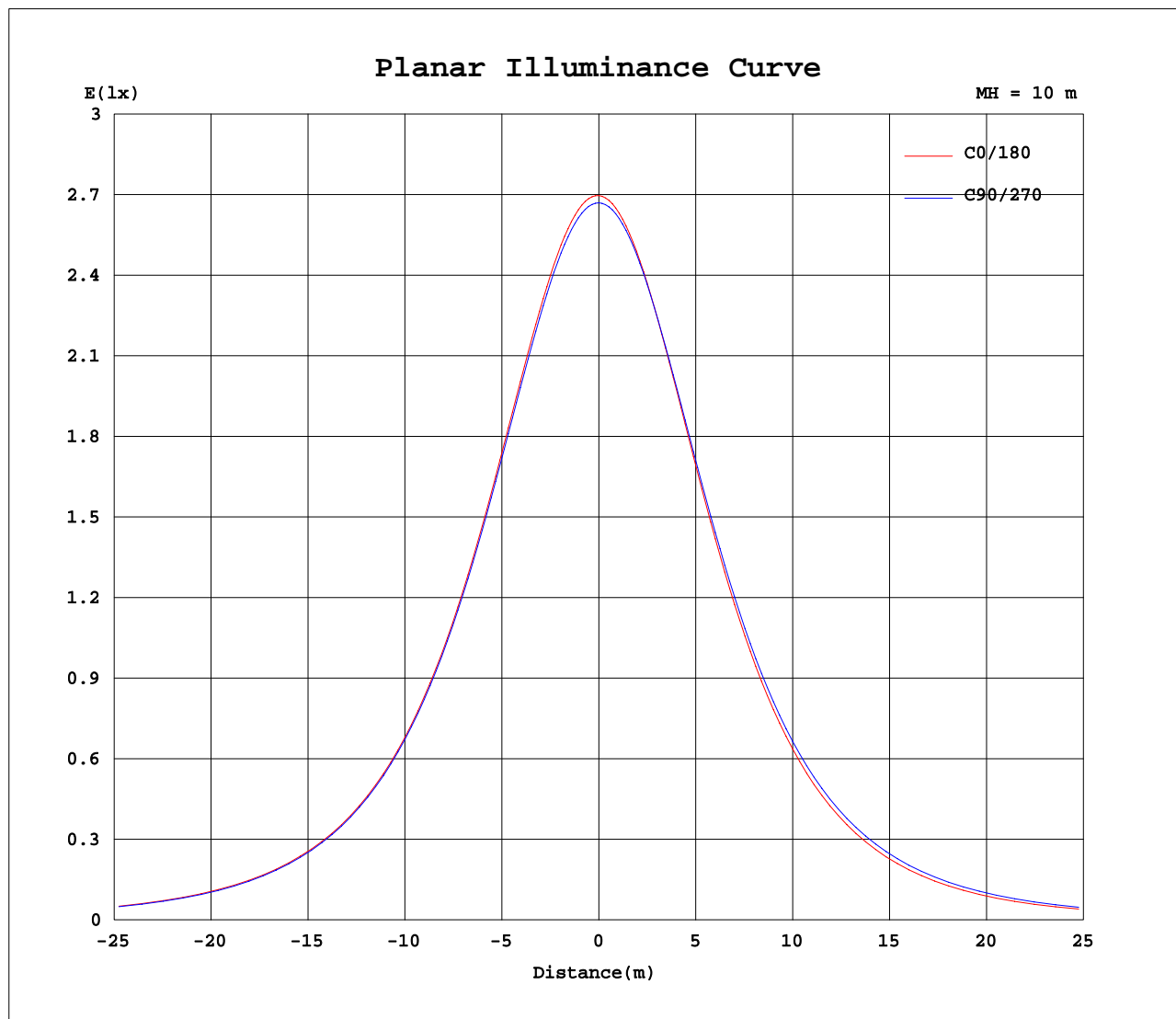
AvgL	cd/m2
L_0~180(65)av	30119
L_0~180(75)av	25800
L_0~180(85)av	17359
L_90~270(65)av	31510
L_90~270(75)av	27732
L_90~270(85)av	18392
L_45(65)av	30740
L_45(75)av	26521
L_45(85)av	18357

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-06-29

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: 2015-06-29

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--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	270	269	269	268	268	268	268	268	267	267	267	267	267	267	267	267	267	267	267
5	269	269	268	268	268	268	267	267	267	267	267	267	266	266	266	266	266	266	266
10	266	266	266	266	265	265	265	265	265	265	265	265	264	264	264	264	264	264	263
15	262	262	261	261	261	261	261	261	260	260	260	260	260	260	260	259	259	259	259
20	255	255	255	255	254	254	254	254	254	254	254	254	254	253	253	253	253	253	252
25	246	246	246	246	246	246	246	246	246	246	246	246	245	245	245	245	244	244	243
30	235	236	235	236	235	236	236	236	236	236	236	236	235	235	235	235	234	234	233
35	223	223	223	223	223	224	223	224	224	224	224	224	223	223	223	223	222	222	220
40	208	209	209	209	209	209	209	210	210	210	210	210	210	209	209	209	208	207	206
45	192	193	193	193	193	194	194	194	194	194	194	194	194	194	193	193	192	191	190
50	175	175	175	175	176	176	176	177	176	177	177	177	176	176	175	175	174	174	172
55	155	156	156	156	156	157	157	157	157	158	157	157	157	157	156	156	155	154	153
60	134	135	135	136	136	136	136	137	136	137	136	137	136	136	135	134	133	133	131
65	112	112	113	113	114	114	114	114	114	114	114	114	113	113	112	112	111	110	108
70	88.3	88.9	89.1	89.8	89.8	90.4	90.4	90.9	90.6	90.8	90.2	90.2	89.4	89.3	88.1	87.7	86.5	85.9	84.2
75	64.0	65.2	65.1	66.1	65.9	66.9	66.4	66.9	66.3	66.5	65.8	65.8	64.8	64.6	63.4	62.9	61.5	61.0	59.3
80	40.5	41.3	41.6	42.2	42.2	42.8	42.4	42.8	42.2	42.4	41.5	41.5	40.4	40.2	39.0	38.6	37.1	36.6	35.1
85	19.2	19.9	19.9	20.6	20.4	20.9	20.7	20.9	20.4	20.5	19.8	19.6	18.7	18.4	17.3	17.0	15.9	15.4	14.2
90	4.53	5.05	4.92	5.38	5.20	5.51	5.29	5.40	5.14	5.14	4.74	4.66	4.23	4.09	3.65	3.51	3.11	2.66	1.76
95	0.98	1.09	1.04	1.08	1.12	1.16	1.19	1.23	1.25	1.28	1.29	1.30	1.24	1.11	0.95	0.98	1.04	1.07	1.07
100	0.95	0.95	0.97	0.97	0.97	0.96	0.94	0.91	0.87	0.83	0.83	0.84	0.84	0.87	0.88	0.90	0.91	0.92	0.92
105	0.88	0.89	0.88	0.88	0.88	0.89	0.89	0.91	0.91	0.93	0.94	0.96	0.97	0.99	1.00	1.02	1.02	1.04	1.05
110	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.08	1.08	1.10	1.11	1.13	1.14	1.16	1.17	1.19	1.20	1.22	1.23
115	1.23	1.23	1.23	1.23	1.23	1.24	1.24	1.26	1.26	1.28	1.28	1.30	1.31	1.33	1.35	1.37	1.38	1.41	1.41
120	1.41	1.41	1.40	1.40	1.40	1.41	1.42	1.43	1.43	1.45	1.46	1.47	1.48	1.50	1.51	1.53	1.54	1.57	1.59
125	1.58	1.58	1.57	1.58	1.58	1.59	1.59	1.60	1.61	1.62	1.62	1.63	1.64	1.66	1.67	1.69	1.71	1.74	1.76
130	1.75	1.75	1.75	1.75	1.75	1.76	1.76	1.77	1.77	1.77	1.78	1.80	1.80	1.83	1.84	1.86	1.87	1.91	1.93
135	1.93	1.92	1.92	1.93	1.92	1.93	1.93	1.94	1.93	1.95	1.95	1.97	1.97	2.00	2.00	2.03	2.04	2.08	2.10
140	2.09	2.09	2.09	2.10	2.10	2.11	2.10	2.10	2.10	2.12	2.12	2.14	2.14	2.16	2.17	2.19	2.21	2.24	2.26
145	2.25	2.26	2.27	2.27	2.27	2.27	2.26	2.27	2.27	2.28	2.28	2.29	2.30	2.32	2.32	2.35	2.36	2.40	2.41
150	2.41	2.43	2.43	2.44	2.43	2.43	2.42	2.43	2.43	2.44	2.43	2.45	2.45	2.47	2.47	2.50	2.52	2.55	2.57
155	2.57	2.59	2.59	2.60	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.59	2.61	2.62	2.63	2.65	2.67	2.69	2.70
160	2.72	2.74	2.75	2.74	2.72	2.73	2.72	2.73	2.72	2.73	2.73	2.74	2.74	2.76	2.77	2.79	2.80	2.82	2.83
165	2.87	2.90	2.88	2.87	2.86	2.87	2.85	2.86	2.85	2.86	2.86	2.87	2.87	2.89	2.90	2.92	2.92	2.94	2.94
170	3.02	3.03	3.00	3.00	2.99	2.99	2.98	2.99	2.98	2.99	2.98	3.00	2.99	3.01	3.01	3.03	3.03	3.04	3.04
175	3.13	3.13	3.11	3.11	3.09	3.10	3.08	3.09	3.08	3.09	3.09	3.10	3.09	3.11	3.10	3.12	3.11	3.12	3.12
180	3.21	3.21	3.18	3.18	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.16	3.17	3.16	3.17	3.17	3.17	3.17

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-29

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	267	267	267	268	269	269	269	269	271	271	270	270	270	270	270	270	270	270	269
5	266	266	266	267	267	267	267	268	269	269	269	268	268	268	268	268	268	268	268
10	263	263	263	263	264	264	264	264	265	265	265	264	264	264	264	264	264	264	264
15	258	258	258	258	259	258	258	259	260	259	259	258	258	258	258	258	258	258	257
20	251	251	251	251	252	251	251	251	252	251	251	250	250	250	250	250	250	250	249
25	243	242	242	242	243	242	242	242	242	241	241	240	240	239	240	239	239	240	239
30	232	231	232	231	231	230	231	230	230	229	229	228	228	227	227	227	227	228	227
35	220	219	219	218	218	217	217	217	217	215	215	214	214	213	213	213	213	214	213
40	206	204	205	204	203	202	202	202	201	199	199	198	197	197	197	196	197	198	197
45	189	188	188	187	187	186	186	184	183	182	181	180	180	179	179	178	179	180	179
50	172	170	170	169	168	167	167	165	164	162	161	160	160	159	159	159	159	160	159
55	152	150	150	148	148	147	146	144	142	141	140	139	139	138	138	137	137	139	138
60	130	129	128	127	126	124	123	121	119	118	117	116	116	115	115	114	115	116	115
65	107	106	105	103	103	100	98.6	96.4	95.4	93.8	93.2	91.8	91.6	90.6	90.8	90.1	90.7	91.9	91.0
70	83.2	81.6	80.7	78.9	77.3	74.8	73.4	71.3	70.4	68.8	68.2	66.8	66.6	65.6	65.8	65.2	65.8	67.2	66.3
75	58.5	56.8	55.9	53.4	51.8	49.4	48.3	46.4	45.6	44.0	43.5	42.3	42.1	41.3	41.5	41.1	41.5	42.8	41.5
80	34.5	33.0	31.6	29.1	27.9	25.9	25.0	23.3	22.8	21.5	21.2	20.2	20.2	19.5	19.8	19.3	19.8	20.5	19.8
85	14.1	12.6	11.4	9.81	9.09	7.93	7.47	6.56	6.28	5.57	5.43	4.93	4.92	4.59	4.69	4.49	4.71	4.96	4.60
90	2.27	2.12	1.88	1.67	1.58	1.45	1.38	1.28	1.24	1.17	1.13	1.08	1.04	0.99	0.96	0.92	0.90	1.02	0.91
95	1.12	1.05	0.95	0.90	0.86	0.84	0.82	0.80	0.80	0.78	0.78	0.78	0.77	0.78	0.78	0.79	0.79	0.84	0.84
100	0.93	0.92	0.92	0.90	0.91	0.90	0.91	0.91	0.91	0.90	0.90	0.89	0.89	0.88	0.87	0.86	0.86	0.93	0.92
105	1.06	1.06	1.07	1.07	1.08	1.07	1.08	1.07	1.07	1.06	1.07	1.06	1.06	1.04	1.04	1.03	1.03	1.10	1.10
110	1.23	1.24	1.25	1.25	1.26	1.25	1.26	1.25	1.25	1.24	1.24	1.23	1.23	1.22	1.21	1.20	1.20	1.28	1.28
115	1.42	1.42	1.43	1.43	1.44	1.43	1.44	1.43	1.43	1.42	1.42	1.41	1.41	1.40	1.40	1.38	1.38	1.46	1.46
120	1.59	1.59	1.60	1.60	1.61	1.61	1.61	1.61	1.61	1.60	1.60	1.59	1.59	1.57	1.57	1.56	1.56	1.63	1.63
125	1.77	1.76	1.77	1.77	1.78	1.78	1.79	1.78	1.78	1.78	1.77	1.76	1.76	1.75	1.75	1.74	1.73	1.81	1.80
130	1.94	1.93	1.94	1.94	1.95	1.95	1.96	1.95	1.96	1.95	1.95	1.94	1.94	1.93	1.92	1.91	1.91	1.97	1.97
135	2.11	2.10	2.10	2.10	2.12	2.11	2.12	2.12	2.12	2.11	2.12	2.10	2.10	2.09	2.09	2.08	2.08	2.13	2.13
140	2.28	2.27	2.27	2.26	2.27	2.27	2.28	2.27	2.28	2.27	2.27	2.26	2.26	2.25	2.25	2.24	2.24	2.29	2.28
145	2.43	2.42	2.42	2.41	2.42	2.42	2.42	2.42	2.42	2.41	2.41	2.40	2.41	2.40	2.40	2.39	2.39	2.43	2.43
150	2.59	2.58	2.58	2.56	2.56	2.55	2.56	2.55	2.55	2.54	2.55	2.54	2.54	2.53	2.53	2.52	2.52	2.57	2.56
155	2.72	2.72	2.72	2.70	2.70	2.68	2.69	2.68	2.68	2.67	2.68	2.67	2.67	2.66	2.66	2.65	2.65	2.70	2.68
160	2.85	2.84	2.85	2.83	2.83	2.82	2.81	2.80	2.80	2.79	2.79	2.78	2.79	2.77	2.78	2.77	2.78	2.82	2.80
165	2.96	2.95	2.96	2.95	2.95	2.94	2.94	2.92	2.92	2.91	2.91	2.90	2.90	2.89	2.89	2.89	2.90	2.95	2.92
170	3.06	3.06	3.06	3.05	3.06	3.05	3.05	3.04	3.04	3.03	3.03	3.02	3.02	3.01	3.02	3.01	3.03	3.07	3.04
175	3.13	3.13	3.14	3.13	3.14	3.13	3.14	3.13	3.13	3.12	3.13	3.12	3.13	3.12	3.13	3.13	3.15	3.17	3.14
180	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.18	3.19	3.20	3.21	3.20

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-29

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	269	268	268	268	268	268	267	267	267	267	267	267	267	267	267	267	267	267	267
5	267	267	266	266	266	266	265	265	266	265	265	265	265	265	266	266	266	266	266
10	263	263	262	262	262	262	262	262	262	262	262	262	262	262	262	263	263	263	263
15	257	256	256	256	256	256	256	256	256	256	256	256	257	257	257	258	258	258	258
20	249	248	248	248	248	248	248	248	248	248	249	248	249	249	250	251	251	251	252
25	239	238	238	238	238	238	238	238	238	239	239	239	240	240	241	242	242	242	243
30	227	226	226	226	226	226	226	226	227	227	228	228	229	229	230	231	231	232	233
35	213	212	212	212	212	212	212	212	213	213	214	214	215	216	217	218	219	219	220
40	196	196	196	196	196	196	196	197	197	198	199	199	200	201	202	203	204	205	206
45	179	178	178	178	178	178	179	179	180	180	182	182	183	184	186	187	188	188	190
50	159	158	159	158	159	159	159	160	161	161	162	163	165	165	167	168	170	170	172
55	138	137	137	137	137	137	138	138	140	140	142	142	144	145	147	148	150	151	152
60	115	114	114	114	115	114	115	116	117	118	119	120	122	123	125	126	128	129	131
65	90.9	90.1	90.4	90.0	90.5	90.5	91.4	91.7	93.0	93.7	95.3	96.2	98.1	99.3	101	103	105	106	108
70	66.1	65.5	65.5	65.1	65.7	65.6	66.5	66.8	68.2	68.7	70.4	71.4	73.3	74.5	76.8	78.2	80.4	81.8	84.1
75	41.7	40.8	41.2	40.6	41.2	41.1	42.0	42.2	43.5	44.1	45.6	46.6	48.5	49.6	51.8	53.2	55.5	56.9	59.2
80	19.8	19.1	19.3	18.9	19.3	19.2	19.9	20.0	21.0	21.5	22.8	23.5	25.2	26.2	28.1	29.3	31.2	32.5	33.6
85	4.52	4.28	4.33	4.18	4.42	4.36	4.73	4.81	5.33	5.58	6.28	6.68	7.59	8.22	9.45	10.2	11.4	11.2	12.2
90	0.93	0.96	0.98	1.02	1.05	1.10	1.13	1.17	1.21	1.26	1.31	1.35	1.41	1.49	1.63	1.48	1.39	1.86	2.39
95	0.84	0.83	0.82	0.82	0.82	0.82	0.83	0.83	0.84	0.84	0.86	0.87	0.90	0.93	0.97	1.01	0.97	0.95	0.92
100	0.93	0.93	0.95	0.95	0.96	0.96	0.97	0.97	0.98	0.98	0.98	0.98	0.99	0.98	0.99	0.97	0.97	0.95	0.95
105	1.11	1.11	1.12	1.12	1.14	1.14	1.15	1.15	1.16	1.16	1.16	1.16	1.16	1.15	1.15	1.13	1.13	1.11	1.10
110	1.29	1.29	1.30	1.31	1.32	1.32	1.33	1.33	1.34	1.34	1.35	1.34	1.35	1.34	1.33	1.32	1.33	1.30	1.29
115	1.47	1.47	1.48	1.49	1.50	1.50	1.52	1.52	1.53	1.52	1.53	1.52	1.53	1.51	1.52	1.51	1.51	1.48	1.47
120	1.65	1.65	1.66	1.66	1.68	1.68	1.69	1.69	1.70	1.70	1.71	1.70	1.70	1.69	1.69	1.69	1.69	1.66	1.64
125	1.82	1.82	1.83	1.83	1.85	1.85	1.86	1.86	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.83	1.81
130	1.98	1.99	2.00	2.00	2.02	2.02	2.03	2.03	2.04	2.03	2.03	2.02	2.03	2.02	2.03	2.03	2.03	1.99	1.97
135	2.14	2.15	2.16	2.16	2.18	2.18	2.19	2.18	2.19	2.19	2.19	2.18	2.18	2.18	2.19	2.19	2.18	2.15	2.13
140	2.29	2.29	2.31	2.31	2.32	2.32	2.33	2.33	2.34	2.33	2.34	2.33	2.33	2.33	2.35	2.34	2.34	2.31	2.29
145	2.44	2.44	2.45	2.45	2.46	2.46	2.47	2.46	2.47	2.47	2.47	2.46	2.47	2.48	2.49	2.49	2.48	2.45	2.44
150	2.57	2.57	2.58	2.58	2.59	2.59	2.60	2.59	2.60	2.59	2.60	2.60	2.61	2.61	2.63	2.62	2.62	2.59	2.58
155	2.70	2.69	2.70	2.69	2.71	2.70	2.71	2.71	2.72	2.71	2.73	2.73	2.74	2.74	2.76	2.75	2.75	2.72	2.71
160	2.81	2.80	2.81	2.81	2.82	2.81	2.83	2.82	2.84	2.84	2.85	2.85	2.87	2.87	2.88	2.87	2.86	2.84	2.84
165	2.92	2.91	2.92	2.91	2.93	2.92	2.94	2.94	2.95	2.95	2.96	2.96	2.98	2.97	2.98	2.97	2.97	2.95	2.95
170	3.04	3.02	3.04	3.03	3.04	3.03	3.05	3.04	3.06	3.05	3.06	3.06	3.07	3.06	3.07	3.06	3.06	3.04	3.05
175	3.14	3.12	3.13	3.12	3.13	3.12	3.13	3.13	3.14	3.13	3.14	3.13	3.15	3.13	3.14	3.13	3.14	3.12	3.13
180	3.19	3.18	3.18	3.17	3.17	3.16	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-29

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	267	268	269	269	269	269	271	271	270	270	270	270	270	270	270				
5	266	267	268	268	268	269	270	270	270	270	270	270	270	270	270				
10	264	265	265	266	266	267	268	268	268	267	267	267	267	267	267				
15	259	260	261	261	261	262	263	263	263	263	263	263	263	263	262				
20	252	253	254	255	255	256	257	257	257	256	256	256	256	256	256				
25	244	245	246	246	247	248	249	248	248	248	248	248	248	248	247				
30	233	235	236	236	236	238	238	238	238	238	238	238	237	237	236				
35	221	222	223	224	224	226	226	226	225	225	225	225	225	225	224				
40	207	209	209	210	211	212	211	212	211	211	211	211	211	210	210				
45	191	193	193	194	195	196	195	196	195	195	195	195	194	194	193				
50	173	175	175	177	177	178	178	178	177	178	177	178	177	177	176				
55	154	155	156	158	157	158	158	158	158	158	158	158	157	157	156				
60	132	134	135	136	136	137	137	137	137	137	137	137	136	136	135				
65	109	111	112	113	113	114	114	115	115	115	115	115	114	114	113				
70	85.1	87.0	87.5	88.8	89.1	90.1	90.2	91.1	90.9	91.5	91.0	91.4	90.5	90.6	89.8				
75	59.5	60.5	60.7	61.9	61.6	63.9	65.4	65.6	64.8	66.3	66.8	67.2	66.5	66.5	65.7				
80	32.9	34.4	36.4	38.2	39.0	40.5	40.6	42.3	42.1	42.7	42.9	41.9	42.8	42.9	42.2				
85	13.5	15.5	16.0	17.4	17.8	19.3	19.6	20.2	20.6	21.3	21.1	21.6	21.1	20.4	20.5				
90	2.57	2.98	3.22	3.82	4.07	4.54	4.83	5.33	5.36	5.83	5.75	6.03	5.70	5.93	5.54				
95	0.91	0.90	1.02	1.19	1.26	1.27	1.29	1.30	1.31	1.32	1.33	1.35	1.34	1.31	1.31				
100	0.93	0.92	0.90	0.90	0.88	0.89	0.90	0.94	0.98	1.02	1.03	1.03	1.04	1.04	1.03				
105	1.08	1.08	1.06	1.05	1.03	1.02	1.00	1.00	0.98	0.98	0.97	0.97	0.96	0.97	0.96				
110	1.27	1.26	1.24	1.23	1.21	1.20	1.18	1.17	1.16	1.15	1.14	1.14	1.13	1.14	1.13				
115	1.45	1.44	1.41	1.40	1.39	1.38	1.36	1.35	1.34	1.33	1.32	1.32	1.31	1.32	1.31				
120	1.62	1.61	1.59	1.58	1.56	1.55	1.53	1.53	1.51	1.51	1.49	1.50	1.49	1.49	1.49				
125	1.78	1.77	1.75	1.74	1.73	1.72	1.70	1.69	1.68	1.68	1.67	1.67	1.66	1.67	1.67				
130	1.95	1.94	1.92	1.91	1.89	1.88	1.87	1.86	1.85	1.85	1.84	1.84	1.83	1.84	1.84				
135	2.11	2.10	2.07	2.07	2.05	2.05	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	2.00				
140	2.26	2.25	2.23	2.22	2.21	2.20	2.19	2.19	2.18	2.18	2.17	2.18	2.17	2.17	2.17				
145	2.41	2.40	2.38	2.37	2.36	2.36	2.35	2.35	2.34	2.34	2.34	2.34	2.34	2.34	2.33				
150	2.55	2.54	2.52	2.52	2.50	2.50	2.49	2.50	2.49	2.49	2.49	2.50	2.50	2.50	2.49				
155	2.69	2.68	2.66	2.65	2.64	2.64	2.63	2.64	2.63	2.64	2.63	2.64	2.64	2.65	2.64				
160	2.82	2.81	2.79	2.78	2.77	2.77	2.76	2.77	2.76	2.77	2.77	2.78	2.77	2.79	2.78				
165	2.93	2.93	2.91	2.91	2.89	2.89	2.88	2.89	2.88	2.89	2.89	2.90	2.90	2.92	2.92				
170	3.03	3.03	3.02	3.02	3.01	3.01	3.00	3.00	2.99	3.01	3.00	3.02	3.02	3.04	3.04				
175	3.11	3.12	3.11	3.12	3.10	3.11	3.10	3.10	3.09	3.11	3.10	3.11	3.12	3.14	3.14				
180	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.18	3.19	3.20				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-06-29

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: