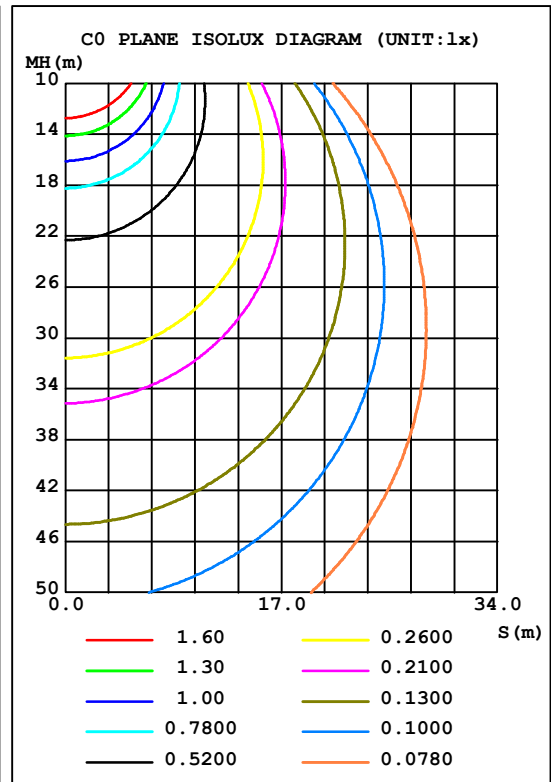
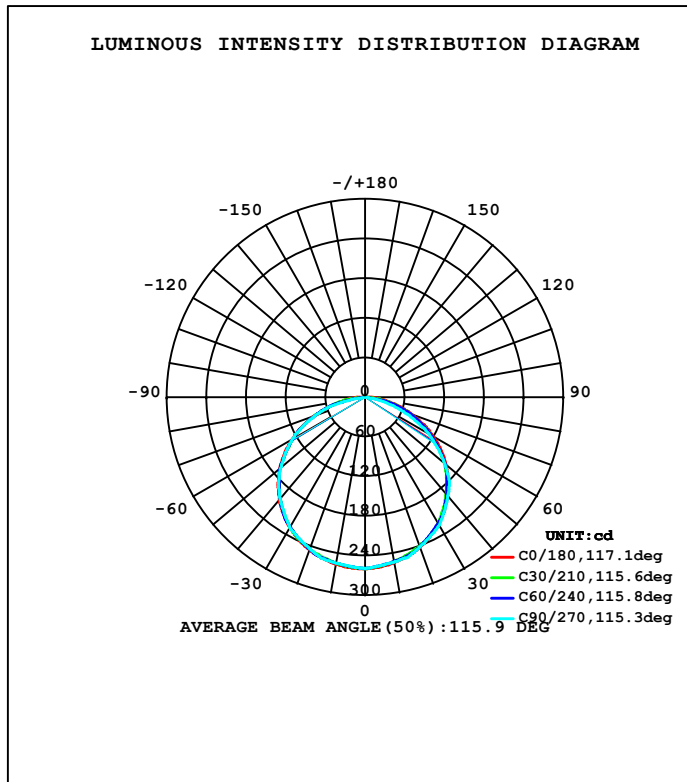


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:0V I:0A P:0W PF:0 Lamp Flux:761.216x1 lm		
NAME: 3528NW120-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*8mm	DIM.: 1000*8mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*8mm	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	3528 NW	I <sub>max</sub> (cd)	259.4	S/MH (C0/180)	1.31
NOMINAL POWER (W)	9.6	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	761.22	η UP, DN (C0-180)	0.0, 49.2
NOMINAL FLUX (lm)	761.216	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	24	η down (%)	100.0	CIBSE SHR MAX	1.35



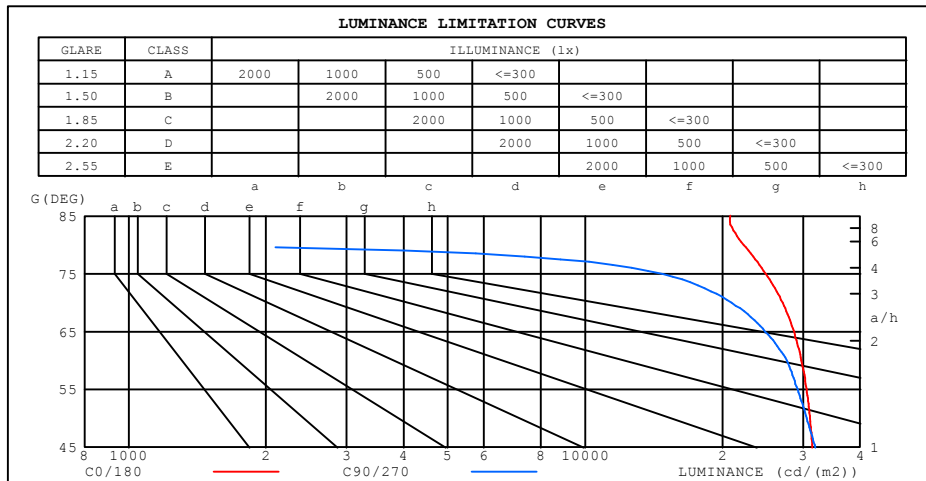
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: dawang  
 Test Date: 2015-10-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity: 65.0%  
 Test Distance: 10.200m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	257.9	256.4	256.4	257.2	259.0	257.8	257.2	257.1	0- 5	6.169	6.169	0.81,0.81
10	254.6	252.5	253.4	254.2	256.8	255.1	255.1	254.0	5- 10	18.29	24.46	3.21,3.21
15	249.4	247.5	250.5	250.2	252.6	251.3	253.0	250.1	10- 15	29.93	54.39	7.15,7.15
20	242.2	241.6	241.8	245.3	246.5	246.5	244.7	245.4	15- 20	40.71	95.10	12.5,12.5
25	233.1	231.3	233.1	236.0	238.4	237.2	236.5	235.9	20- 25	50.16	145.3	19.1,19.1
30	222.1	219.5	224.3	225.2	228.3	226.5	228.3	224.6	25- 30	58.14	203.4	26.7,26.7
35	209.3	207.0	209.7	213.6	216.3	215.0	214.3	212.9	30- 35	64.36	267.8	35.2,35.2
40	194.5	193.1	195.1	200.7	202.4	202.1	200.3	200.1	35- 40	68.37	336.1	44.2,44.2
45	177.9	174.7	180.5	183.3	186.5	184.8	186.2	182.5	40- 45	70.24	406.4	53.4,53.4
50	159.8	155.9	157.2	165.5	168.8	167.0	166.6	164.6	45- 50	69.80	476.2	62.6,62.6
55	140.1	136.9	134.0	147.2	149.2	148.8	147.0	146.3	50- 55	66.72	542.9	71.3,71.3
60	119.1	114.3	110.7	124.0	127.8	126.1	127.4	123.7	55- 60	61.39	604.3	79.4,79.4
65	96.92	92.15	83.98	100.5	105.0	103.5	102.9	101.5	60- 65	53.85	658.1	86.5,86.5
70	74.04	70.05	57.28	77.30	80.13	80.27	78.37	78.69	65- 70	44.16	702.3	92.3,92.3
75	51.43	48.03	30.59	54.22	54.35	56.26	53.86	55.33	70- 75	33.05	735.3	96.6,96.6
80	30.87	23.76	0	27.89	33.27	28.95	0	28.69	75- 80	19.48	754.8	99.2,99.2
85	14.50	0	0	0	17.19	0	0	0	80- 85	5.593	760.4	99.9,99.9
90	1.088	0	0	0	3.982	0	0	0	85- 90	0.8027	761.2	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		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	20796	0
80	22219	0
75	24839	14772
70	27058	20935
65	28667	24839
60	29778	27668
55	30541	29193
50	31077	30577
45	31456	31911

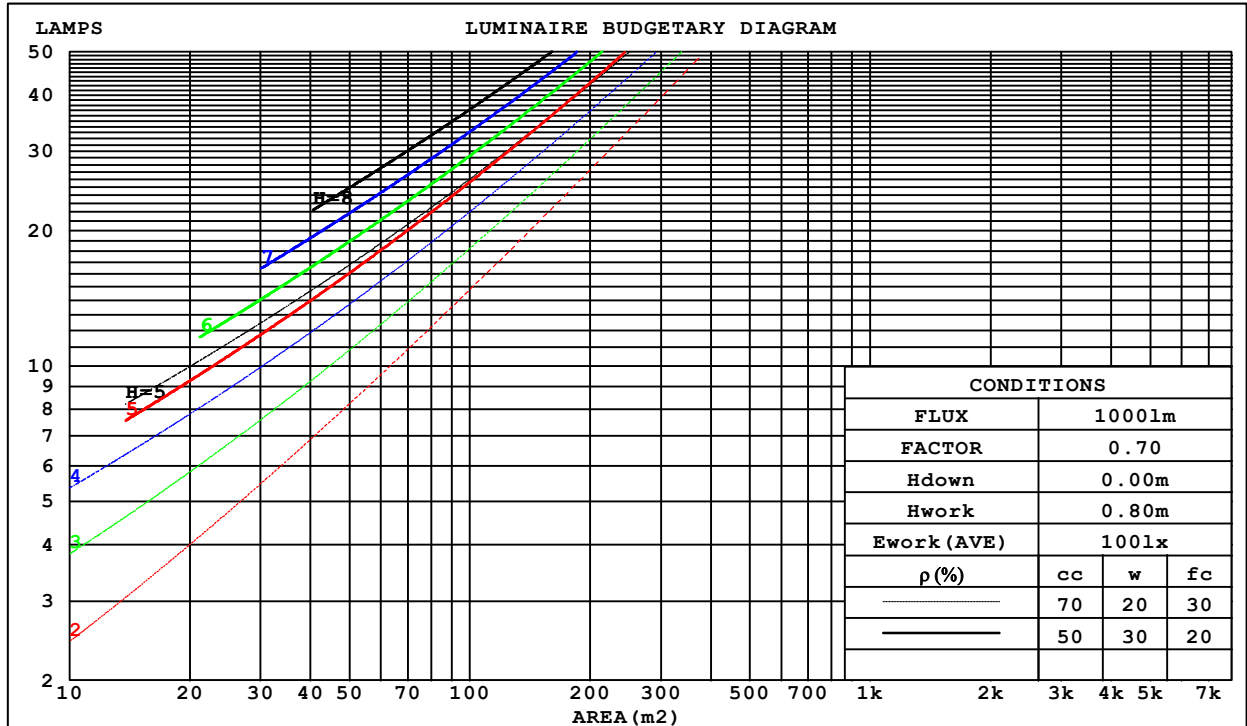
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators: dawang  
 Test Date: 2015-10-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity: 65.0%  
 Test Distance: 10.200m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:0V I:0A P:0W PF:0 Lamp Flux:761.216x1 lm		
NAME: 3528NW120-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*8mm	DIM.: 1000*8mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*8mm	PROTECTION ANGLE:

$\rho_{cc}$	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	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.83	.77	.85	.80	.76	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.71	.65	.78	.70	.64	.75	.68	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.70	.62	.55	.69	.61	.54	.66	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:dawang  
 Test Date:2015-10-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:65.0%  
 Test Distance:10.200m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:0V I:0A P:0W PF:0 Lamp Flux:761.216x1 lm		
NAME: 3528NW120-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*8mm	DIM.: 1000*8mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*8mm	PROTECTION ANGLE:

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	.301	.171	.054	.294	.168	.053	.281	.161	.051	.268	.155	.050	.257	.149	.048	
2.0	.288	.158	.048	.282	.155	.048	.270	.150	.047	.260	.146	.046	.250	.141	.045	
3.0	.269	.143	.043	.263	.141	.042	.253	.137	.042	.243	.133	.041	.234	.130	.040	
4.0	.249	.129	.038	.244	.128	.038	.235	.124	.037	.226	.121	.037	.218	.119	.036	
5.0	.230	.117	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.203	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.178	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.174	.084	.024	.172	.084	.023	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.021	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.074	.141	.099	.065	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:dawang  
 Test Date:2015-10-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:65.0%  
 Test Distance:10.200m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:0V I:0A P:0W PF:0 Lamp Flux:761.216x1 lm											
NAME: 3528NW120-24-GH35					TYPE:LED Strip Light			WEIGHT:0			
SPEC.:1000*8mm					DIM.: 1000*8mm			SERIAL No.:1			
MFR.: Everstar					SUR.:1000*8mm			PROTECTION 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	24.6	26.2	24.9	26.4	26.6	24.6	26.1	24.9	26.3	26.5	
3H	26.1	27.5	26.4	27.8	28.0	26.0	27.4	26.3	27.6	27.9	
4H	26.6	28.0	27.0	28.2	28.5	26.4	27.8	26.7	28.0	28.3	
6H	26.9	28.2	27.3	28.5	28.7	26.4	27.7	26.7	27.9	28.2	
8H	27.0	28.2	27.3	28.5	28.8	26.4	27.6	26.7	27.9	28.2	
12H	27.1	28.2	27.4	28.5	28.8	26.3	27.5	26.7	27.8	28.1	
4H	2H	25.2	26.6	25.5	26.8	27.1	25.2	26.5	25.5	26.8	27.1
3H	26.9	28.1	27.2	28.3	28.7	26.8	28.0	27.1	28.2	28.6	
4H	27.5	28.6	27.9	28.9	29.2	27.4	28.4	27.7	28.7	29.1	
6H	27.8	28.8	28.2	29.1	29.5	27.4	28.4	27.8	28.7	29.1	
8H	27.9	28.8	28.3	29.2	29.6	27.4	28.2	27.8	28.6	29.0	
12H	28.1	28.9	28.5	29.3	29.7	27.3	28.1	27.8	28.5	28.9	
8H	4H	27.7	28.6	28.1	29.0	29.4	27.6	28.5	28.0	28.9	29.2
6H	28.2	28.9	28.6	29.3	29.8	27.7	28.4	28.2	28.8	29.3	
8H	28.4	29.0	28.8	29.4	29.9	27.7	28.3	28.1	28.7	29.2	
12H	28.5	29.1	29.0	29.5	30.0	27.6	28.2	28.1	28.6	29.1	
12H	4H	27.7	28.5	28.1	28.9	29.3	27.6	28.4	28.0	28.8	29.2
6H	28.2	28.8	28.6	29.3	29.7	27.7	28.4	28.2	28.8	29.3	
8H	28.4	28.9	28.8	29.4	29.8	27.7	28.2	28.2	28.7	29.2	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.3 / - 0.4					
1.5H	+ 0.2 / - 0.2					+ 0.3 / - 0.6					
2.0H	+ 0.4 / - 0.4					+ 0.2 / - 0.6					

CIE Pub.117 Corrected 761.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.9)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:dawang  
Test Date:2015-10-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
Humidity:65.0%  
Test Distance:10.200m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:0V I:0A P:0W PF:0 Lamp Flux:761.216x1 lm		
NAME: 3528NW120-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*8mm	DIM.: 1000*8mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*8mm	PROTECTION 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	46	38	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	65	54	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	73	65	82	72	65	79	70	64	57
1.50	88	78	71	87	77	71	84	76	70	62
2.00	95	87	80	93	85	80	90	83	78	70
2.50	99	91	85	97	90	85	93	87	83	74
3.00	103	96	90	100	94	89	96	91	87	79
4.00	107	101	96	104	99	95	100	96	92	84
5.00	109	104	100	107	102	99	102	99	96	87
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: MEDIUM  
 Temperature: 25.3DEG  
 Operators: dawang  
 Test Date: 2015-10-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity: 65.0%  
 Test Distance: 10.200m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

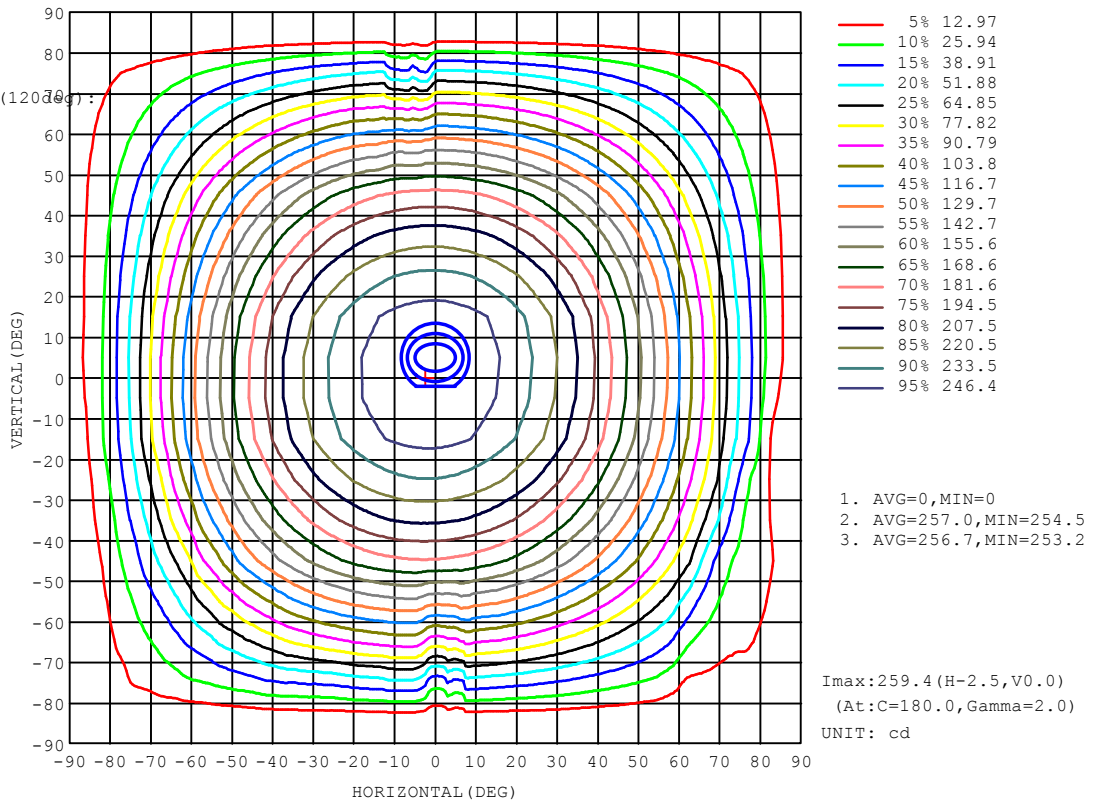
Test:U:0V I:0A P:0W PF:0 Lamp Flux:761.216x1 lm		
NAME: 3528NW120-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*8mm	DIM.: 1000*8mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*8mm	PROTECTION ANGLE:

Conical surface Flux(90deg):

406.38 lm  
 %lum = 53.4%  
 %lamp = 53.4%

Conical surface Flux(120deg):

604.28 lm  
 %lum = 79.4%  
 %lamp = 79.4%



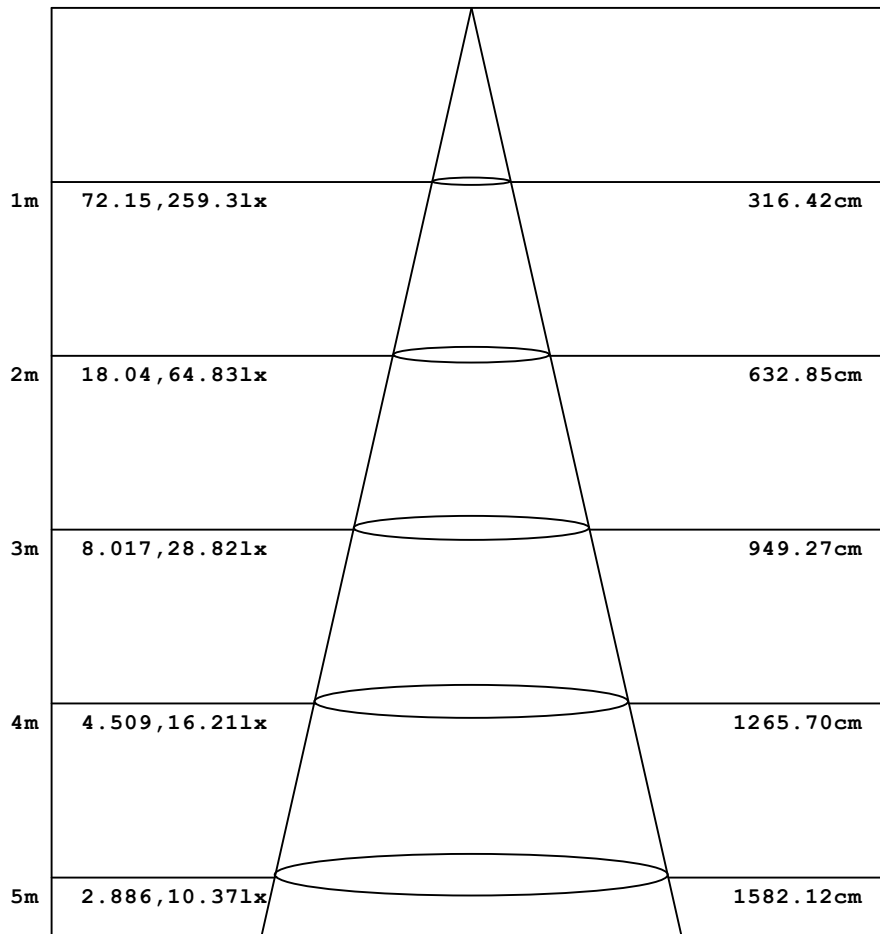
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:dawang  
 Test Date:2015-10-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:65.0%  
 Test Distance:10.200m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:0V I:0A P:0W PF:0 Lamp Flux:761.216x1 lm		
NAME: 3528NW120-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*8mm	DIM.: 1000*8mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*8mm	PROTECTION ANGLE:

Flux out:580.5 lm



Height                      Eavg, Emax                      Angle:115.41deg                      Diameter

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

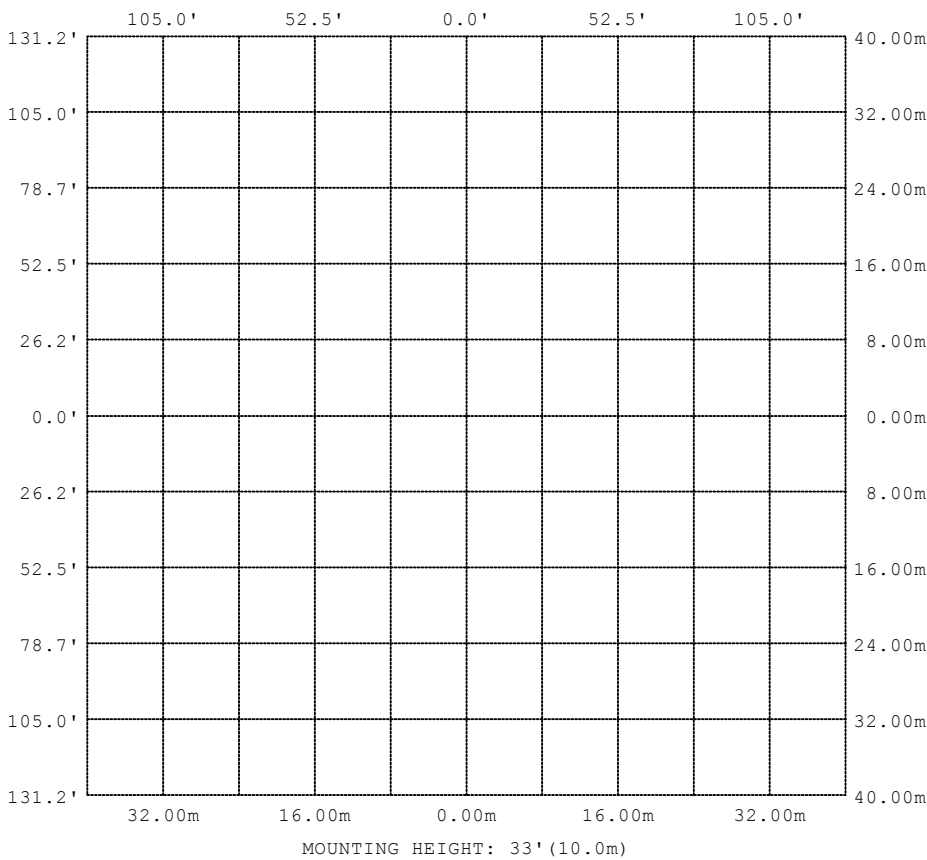
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:dawang  
 Test Date:2015-10-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:65.0%  
 Test Distance:10.200m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

Test:U:0V I:0A P:0W PF:0 Lamp Flux:761.216x1 lm		
NAME: 3528NW120-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*8mm	DIM.: 1000*8mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*8mm	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:dawang  
 Test Date:2015-10-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:65.0%  
 Test Distance:10.200m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:0V I:0A P:0W PF:0 Lamp Flux:761.216x1 lm		
NAME: 3528NW120-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*8mm	DIM.: 1000*8mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*8mm	PROTECTION ANGLE:

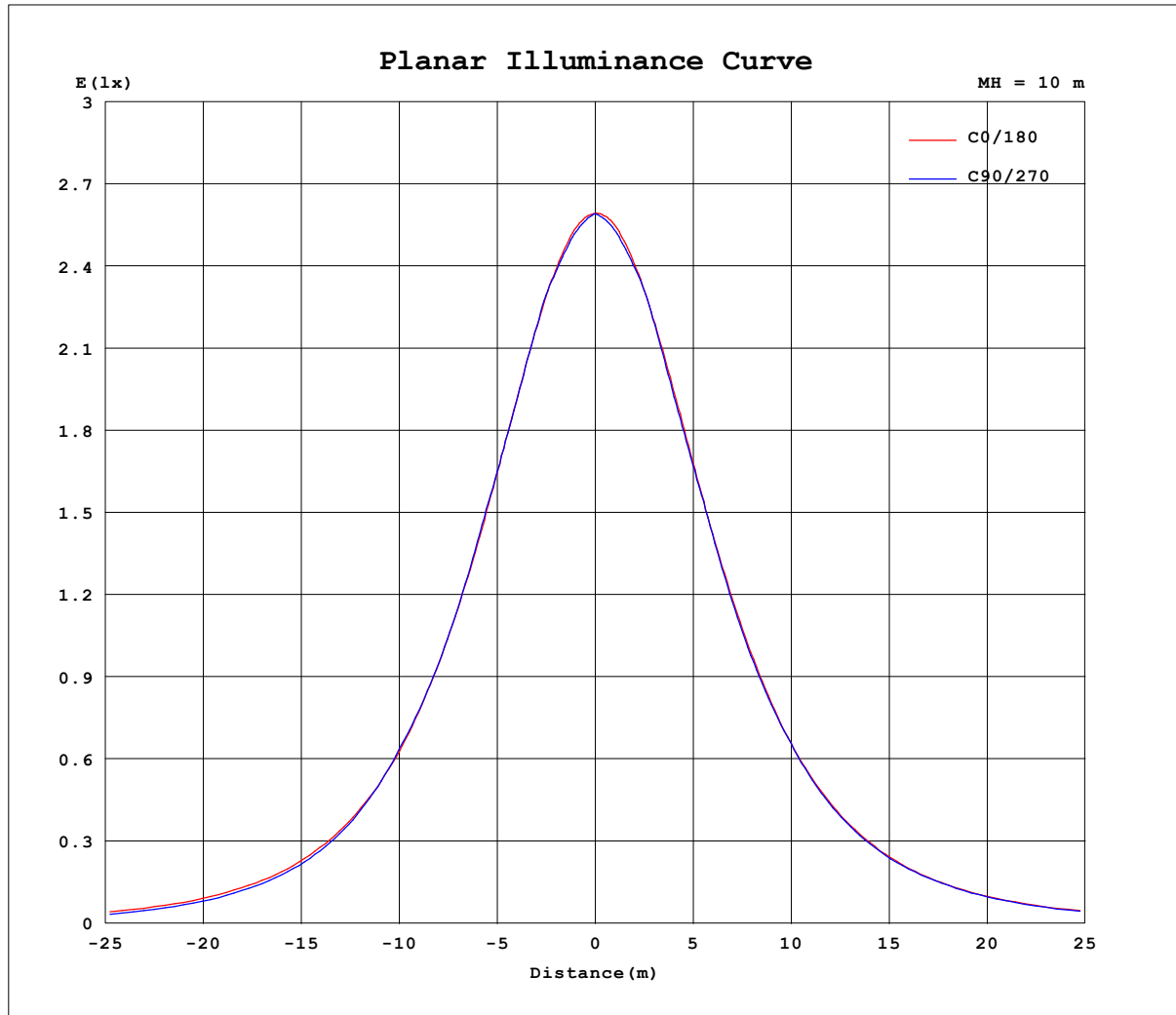
AvgL	cd/m2
L_0~180 (65) av	29857
L_0~180 (75) av	25544
L_0~180 (85) av	22724
L_90~270 (65) av	27633
L_90~270 (75) av	20394
L_90~270 (85) av	0
L_45 (65) av	29408
L_45 (75) av	25819
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:dawang  
 Test Date:2015-10-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:65.0%  
 Test Distance:10.200m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: dawang  
Test Date: 2015-10-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
Humidity: 65.0%  
Test Distance: 10.200m [K=1.0000]  
Remarks:







