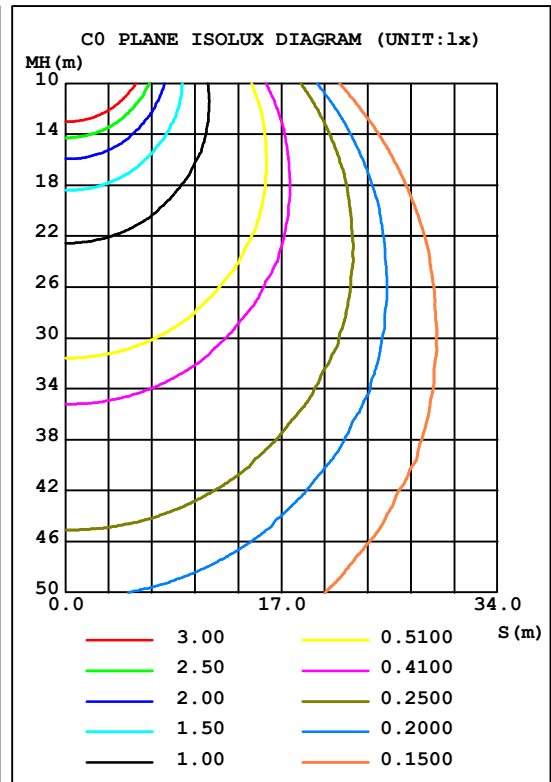
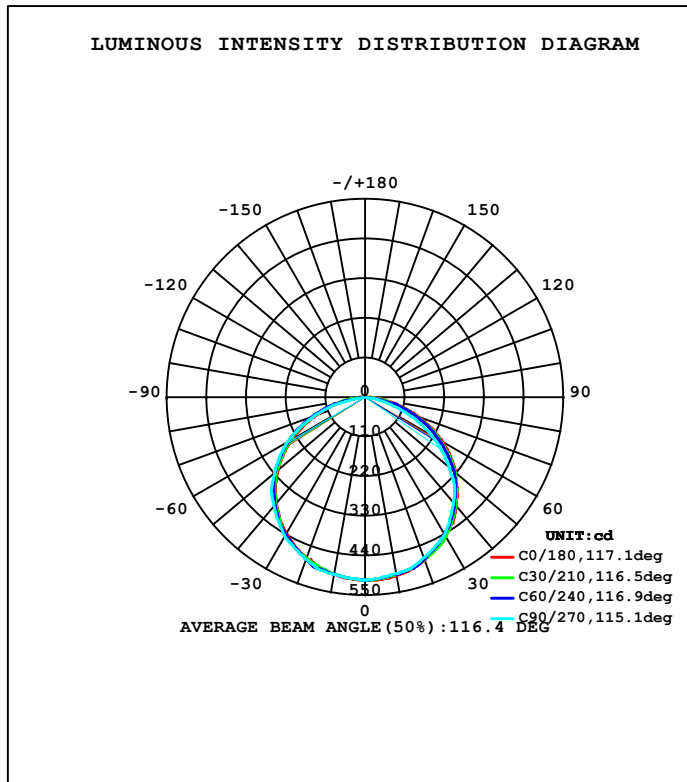


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:0V I:0A P:0W PF:0 Lamp Flux:1491.25x1 lm		
NAME: 3528NW240-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*14	DIM.: 1000*14mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*14	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	3528 NW	I _{max} (cd)	508.6	S/MH (C0/180)	1.28
NOMINAL POWER (W)	19.2	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	1491.2	η UP, DN (C0-180)	0.0, 49.1
NOMINAL FLUX (lm)	1491.25	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.9
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



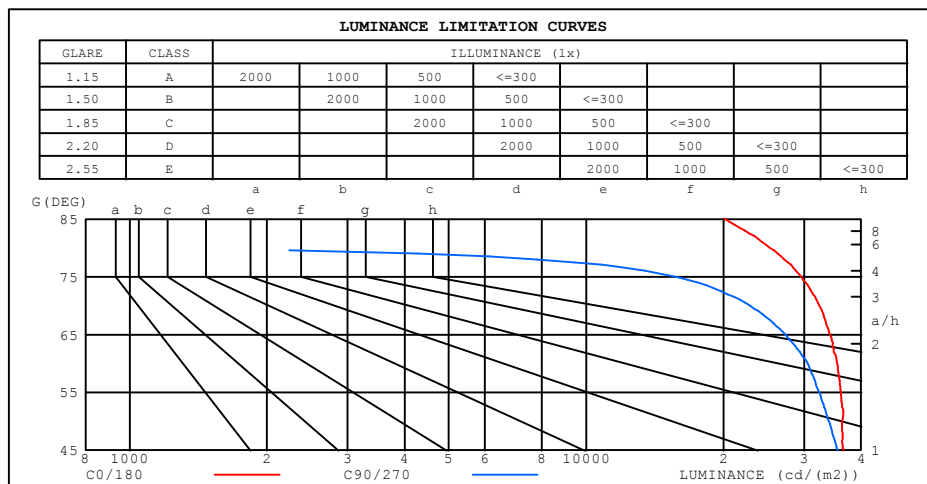
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: dawang
 Test Date: 2016-06-21

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	507.7	504.3	502.8	503.0	505.1	504.1	503.9	505.2	0- 5	12.10	12.10	0.81,0.81
10	503.3	499.3	497.5	495.9	499.3	498.0	499.7	498.7	5- 10	35.88	47.98	3.22,3.22
15	494.8	491.2	492.2	486.8	489.3	490.4	495.6	491.4	10- 15	58.72	106.7	7.16,7.16
20	482.5	484.4	475.3	476.5	475.4	481.0	479.2	481.0	15- 20	79.90	186.6	12.5,12.5
25	462.8	464.9	458.4	456.6	458.2	461.7	462.9	462.9	20- 25	98.47	285.1	19.1,19.1
30	444.6	442.5	441.5	433.9	437.4	439.4	446.6	447.6	25- 30	114.2	399.3	26.8,26.8
35	425.6	419.7	411.7	408.9	413.2	415.7	420.6	426.5	30- 35	126.4	525.7	35.3,35.3
40	394.4	392.2	381.9	382.0	384.1	389.7	394.7	399.3	35- 40	134.4	660.1	44.3,44.3
45	362.7	357.0	352.0	346.7	351.9	356.3	368.7	363.9	40- 45	138.1	798.2	53.5,53.5
50	327.4	320.6	306.0	309.6	317.2	322.1	329.1	331.2	45- 50	137.3	935.5	62.7,62.7
55	290.1	283.6	260.0	274.4	277.4	286.3	289.4	296.6	50- 55	131.3	1067	71.5,71.5
60	248.1	238.0	213.9	228.3	234.7	242.3	249.8	252.1	55- 60	120.8	1188	79.6,79.6
65	202.5	193.3	161.6	182.8	188.5	198.2	197.6	207.7	60- 65	105.8	1293	86.7,86.7
70	155.1	147.1	109.3	136.9	140.9	152.7	145.5	163.0	65- 70	86.55	1380	92.5,92.5
75	107.0	100.1	57.03	90.98	93.63	105.3	93.34	114.8	70- 75	64.17	1444	96.8,96.8
80	61.48	48.98	0	41.96	50.20	52.69	0	59.21	75- 80	36.81	1481	99.3,99.3
85	24.49	0	0	0	17.18	0	0	0	80- 85	9.361	1490	99.9,99.9
90	0.7207	0	0	0	1.688	0	0	0	85- 90	0.9575	1491	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	20075	0
80	25288	0
75	29535	15738
70	32392	22831
65	34220	27316
60	35438	30559
55	36121	32373
50	36377	34004
45	36635	35562

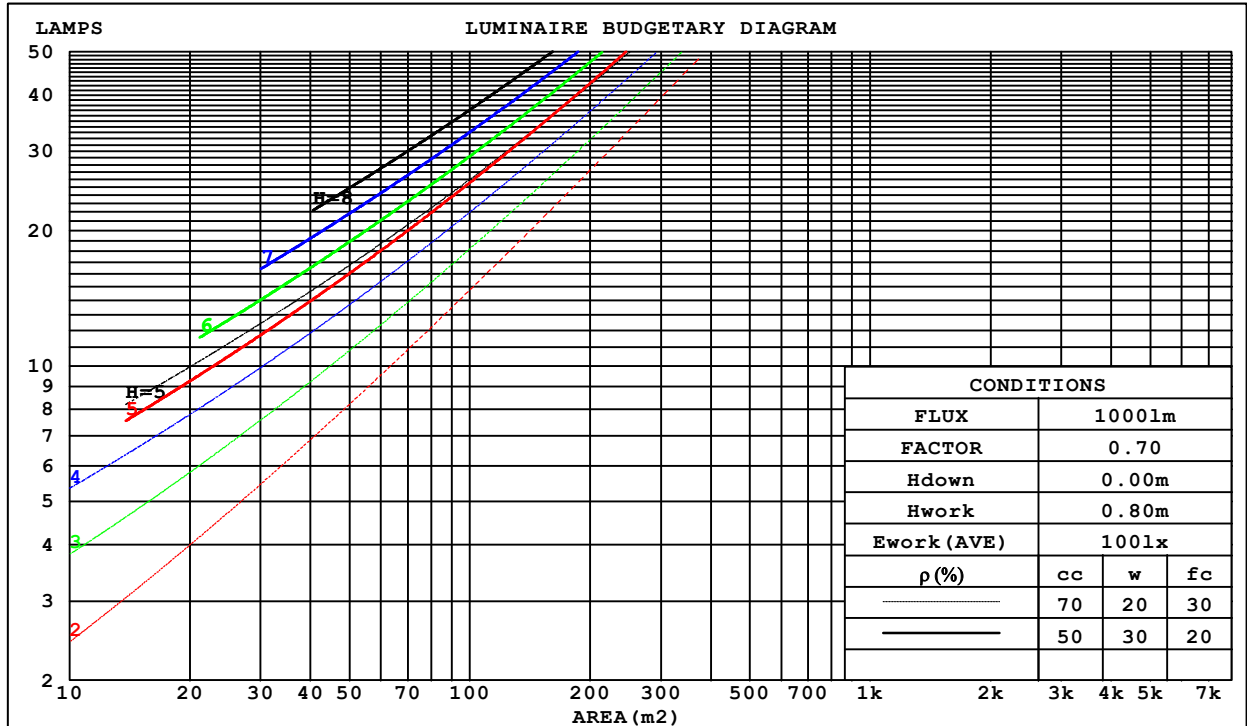
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:dawang
Test Date:2016-06-21

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:1491.25x1 lm		
NAME: 3528NW240-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*14	DIM.: 1000*14mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*14	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	1.00
1.0	1.04	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.92	.89	.90	.88	.87	.84
2.0	.91	.84	.78	.89	.83	.78	.85	.80	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.80	.72	.65	.78	.71	.64	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.70	.62	.55	.69	.61	.55	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.58	.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	.45	.37	.32	.43	.37	.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:2016-06-21

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:

WEC AND CCEC

Test:U:0V I:0A P:0W PF:0 Lamp Flux:1491.25x1 lm		
NAME: 3528NW240-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*14	DIM.: 1000*14mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*14	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	.299	.170	.054	.292	.166	.053	.279	.160	.051	.266	.154	.049	.255	.148	.048	
2.0	.287	.157	.048	.281	.155	.048	.269	.150	.046	.258	.145	.045	.249	.141	.044	
3.0	.268	.143	.043	.262	.141	.042	.252	.137	.042	.243	.133	.041	.234	.129	.040	
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.230	.117	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.196	.097	.028	.189	.096	.028	.183	.094	.027	.177	.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	.166	.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	.060	.053	.047	.019	.017	.015	
2.0	.172	.132	.099	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.075	.141	.099	.065	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.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:2016-06-21

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:1491.25x1 lm										
NAME: 3528NW240-24-GH35					TYPE:LED Strip Light			WEIGHT:0		
SPEC.:1000*14					DIM.: 1000*14mm			SERIAL No.:1		
MFR.: Everstar					SUR.:1000*14			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	25.5	27.0	25.8	27.2	27.4	25.1	26.7	25.4	26.9	27.1
3H	27.0	28.4	27.3	28.7	28.9	26.5	27.9	26.8	28.1	28.4
4H	27.6	28.9	27.9	29.2	29.4	26.9	28.2	27.2	28.5	28.8
6H	27.9	29.1	28.2	29.4	29.7	26.9	28.2	27.2	28.4	28.7
8H	28.0	29.2	28.3	29.5	29.7	26.9	28.1	27.2	28.4	28.6
12H	28.0	29.1	28.3	29.4	29.7	26.8	28.0	27.2	28.3	28.6
4H 2H	26.1	27.4	26.4	27.7	27.9	25.8	27.1	26.1	27.4	27.6
3H	27.8	28.9	28.1	29.2	29.5	27.4	28.5	27.7	28.8	29.1
4H	28.4	29.5	28.8	29.8	30.1	27.9	29.0	28.3	29.3	29.7
6H	28.8	29.8	29.2	30.1	30.5	28.0	28.9	28.4	29.3	29.7
8H	28.9	29.8	29.3	30.2	30.5	28.0	28.8	28.4	29.2	29.6
12H	29.0	29.8	29.4	30.2	30.6	27.9	28.7	28.3	29.1	29.5
8H 4H	28.7	29.5	29.1	29.9	30.3	28.2	29.1	28.6	29.5	29.8
6H	29.2	29.9	29.6	30.3	30.7	28.3	29.1	28.8	29.5	29.9
8H	29.3	30.0	29.8	30.4	30.9	28.3	28.9	28.8	29.4	29.8
12H	29.4	30.0	29.9	30.4	30.9	28.3	28.8	28.7	29.3	29.7
12H 4H	28.6	29.4	29.0	29.8	30.2	28.2	29.0	28.7	29.4	29.8
6H	29.2	29.8	29.6	30.2	30.7	28.4	29.0	28.8	29.4	29.9
8H	29.3	29.9	29.8	30.3	30.8	28.3	28.9	28.8	29.3	29.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.6				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.7				

CIE Pub.117 Corrected 1491 lm Total Lamp Luminous Flux. (8log(F/F0) = 1.4)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:dawang
Test Date:2016-06-21

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:

UTILIZATION FACTORS TABLE

Test:U:0V I:0A P:0W PF:0 Lamp Flux:1491.25x1 lm		
NAME: 3528NW240-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*14	DIM.: 1000*14mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*14	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	39	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	58	75	64	57	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	87	78	71	84	76	70	62
2.00	95	87	80	93	86	80	90	83	78	70
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	91	100	94	89	96	91	87	79
4.00	107	101	97	104	99	95	100	96	93	84
5.00	109	104	101	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: 2016-06-21

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:

ISOCANDELA DIAGRAM

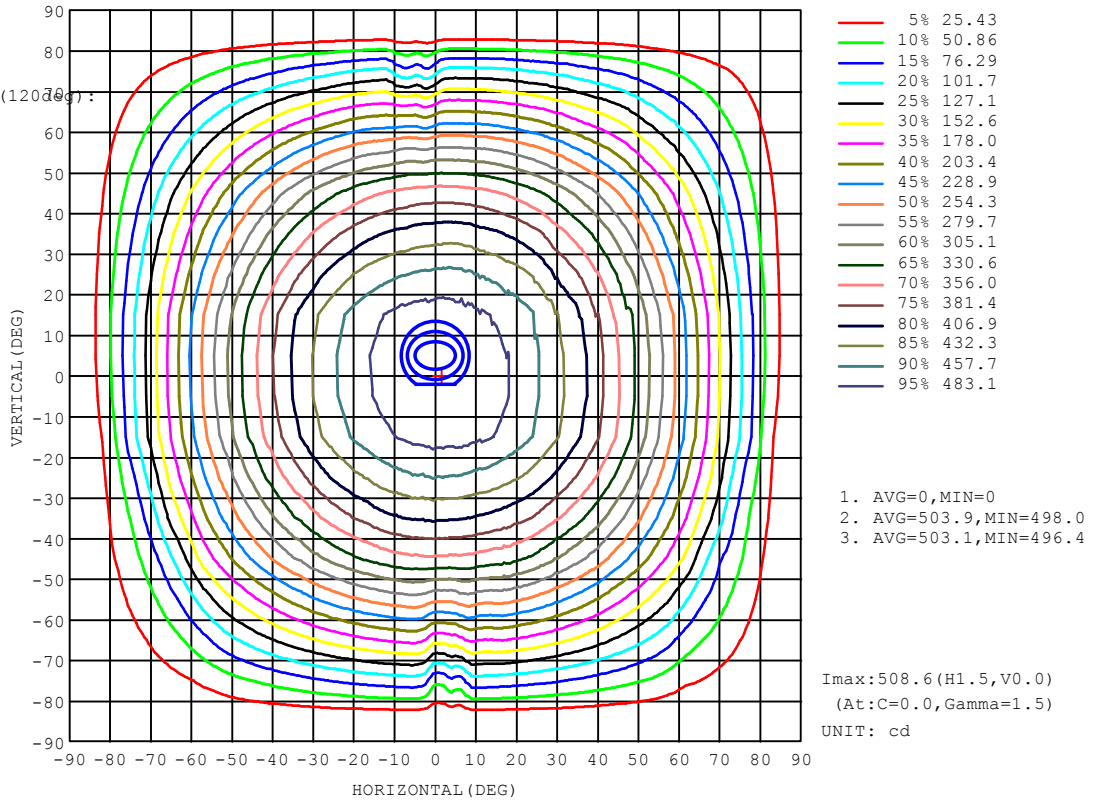
Test:U:0V I:0A P:0W PF:0 Lamp Flux:1491.25x1 lm		
NAME: 3528NW240-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*14	DIM.: 1000*14mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*14	PROTECTION ANGLE:

Conical surface Flux(90deg):

798.18 lm
 %lum = 53.5%
 %lamp = 53.5%

Conical surface Flux(120deg):

1187.6 lm
 %lum = 79.6%
 %lamp = 79.6%



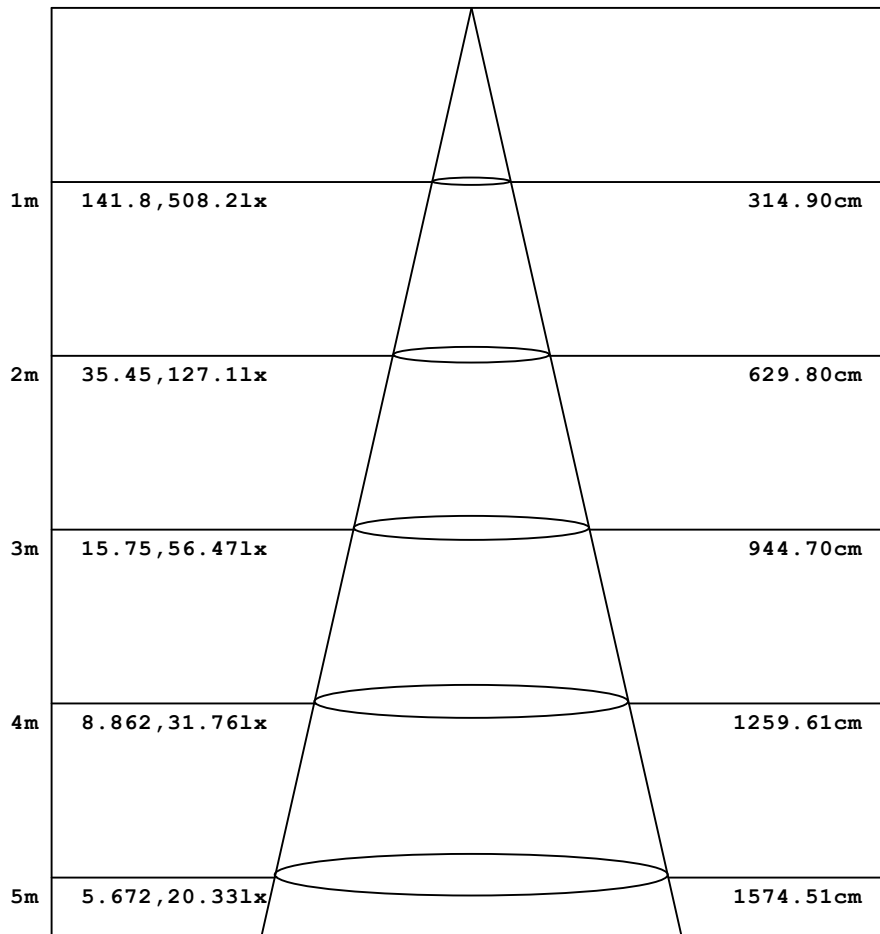
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:dawang
 Test Date:2016-06-21

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:1491.25x1 lm		
NAME: 3528NW240-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*14	DIM.: 1000*14mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*14	PROTECTION ANGLE:

Flux out:1141 lm



Height Eavg, Emax Angle:115.16deg Diameter

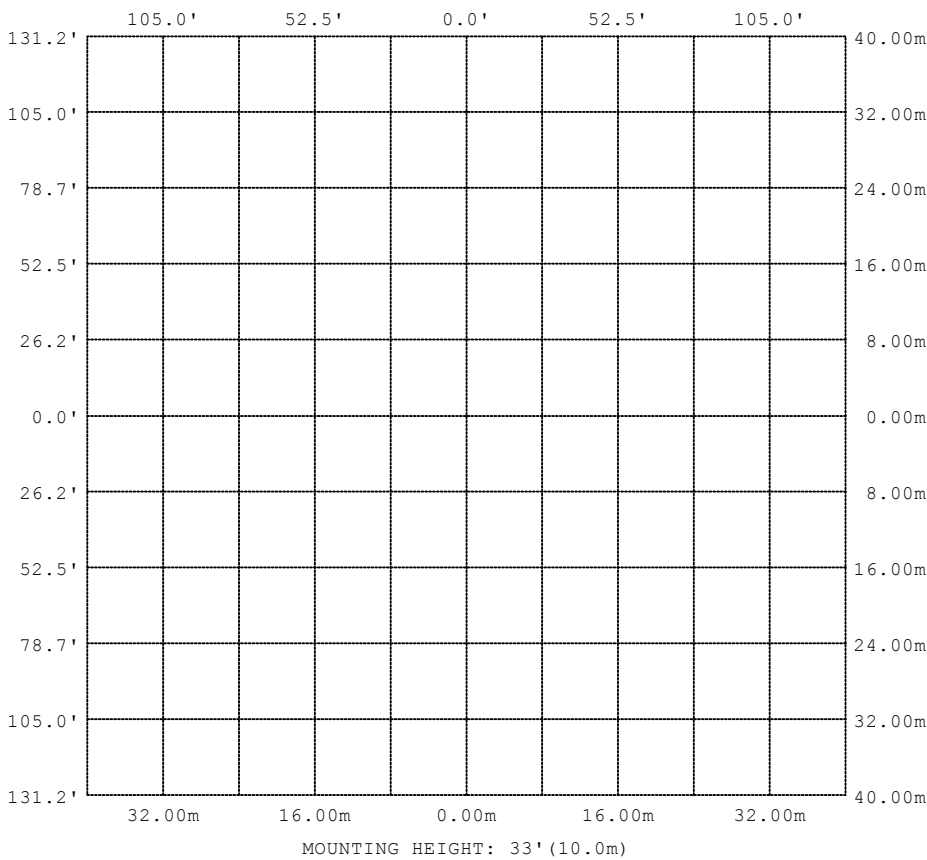
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:dawang
 Test Date:2016-06-21

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:1491.25x1 lm		
NAME: 3528NW240-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*14	DIM.: 1000*14mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*14	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:dawang
 Test Date:2016-06-21

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:1491.25x1 lm		
NAME: 3528NW240-24-GH35	TYPE:LED Strip Light	WEIGHT:0
SPEC.:1000*14	DIM.: 1000*14mm	SERIAL No.:1
MFR.: Everstar	SUR.:1000*14	PROTECTION ANGLE:

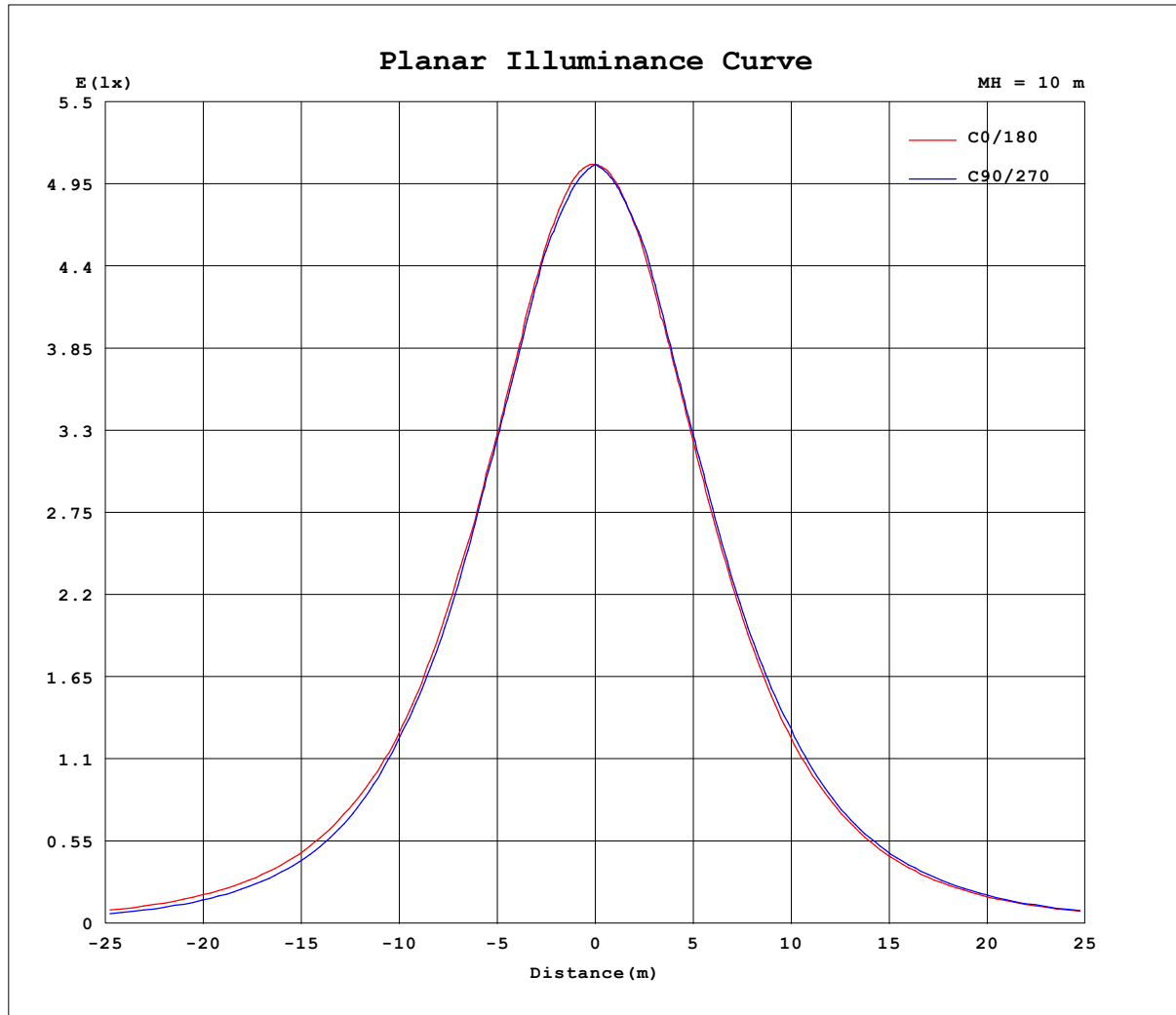
AvgL	cd/m2
L_0~180 (65) av	33040
L_0~180 (75) av	27687
L_0~180 (85) av	17077
L_90~270 (65) av	30359
L_90~270 (75) av	20749
L_90~270 (85) av	0
L_45 (65) av	33047
L_45 (75) av	28370
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:dawang
 Test Date:2016-06-21

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: dawang
Test Date: 2016-06-21

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:

