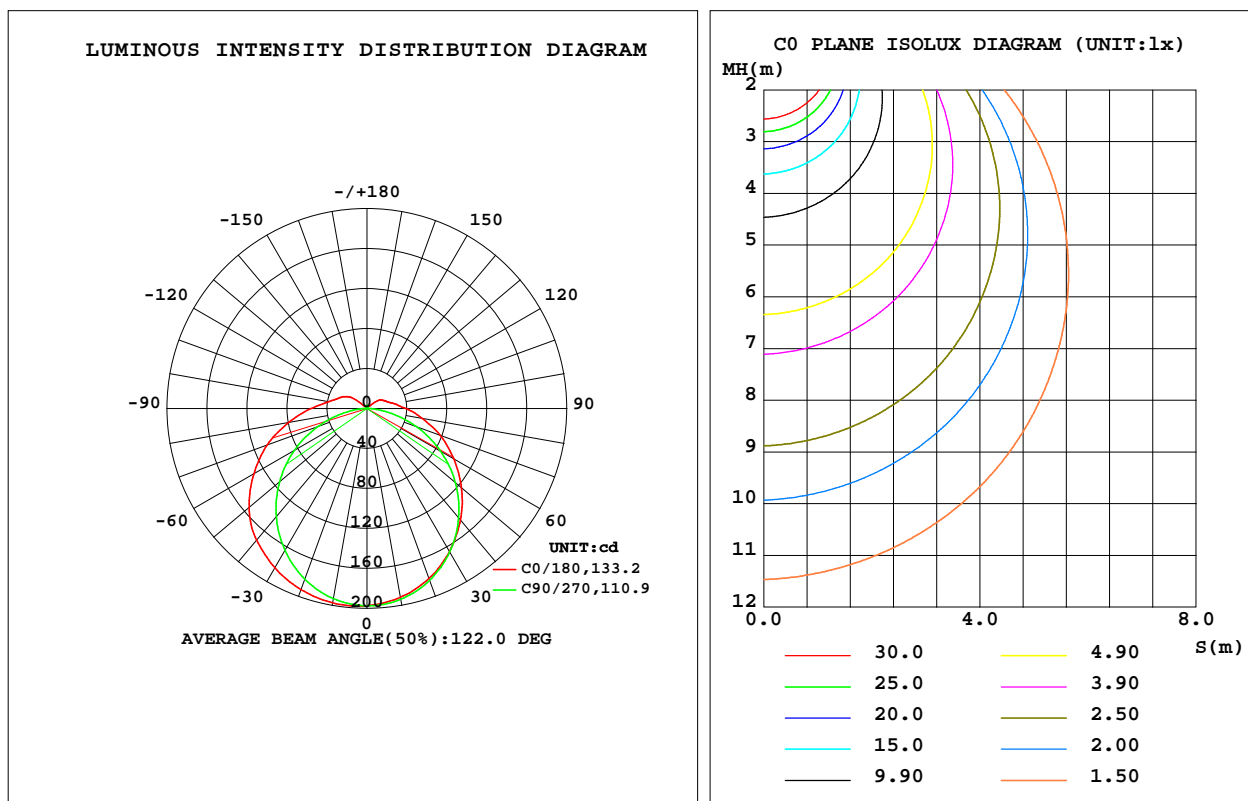


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.06 lm/W			
MODEL	NNT0711	I _{max} (cd)	198.0	S/MH(C0/180)	1.25
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	716.62	h UP,DN(C0-180)	4.1,44.4
NOMINAL FLUX(lm)	716.619	CIE CLASS	DIRECT	h UP,DN(C180-360)	4.7,46.8
LAMPS INSIDE	1	h up(%)	8.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	91.2	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

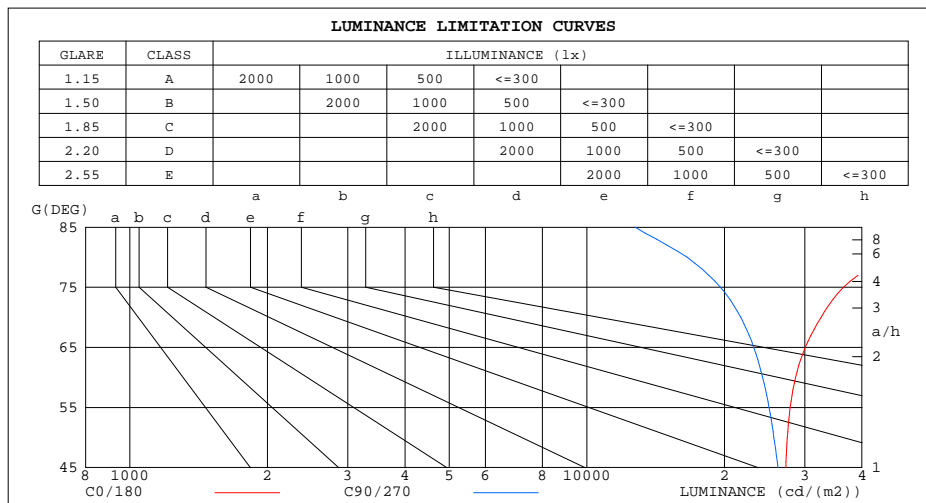
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	191.9	192.6	194.0	196.5	197.4	195.9	193.2	192.1	0- 10	18.69	18.69	2.61,2.61
20	181.2	181.7	183.1	189.1	192.8	188.1	181.8	180.3	10- 20	53.70	72.39	10.1,10.1
30	165.2	165.0	165.7	176.1	184.3	175.3	164.0	162.9	20- 30	82.04	154.4	21.6,21.6
40	145.6	143.2	142.7	158.4	171.8	158.1	141.2	140.7	30- 40	100.5	254.9	35.6,35.6
50	123.5	118.1	115.5	136.4	153.9	137.0	114.2	115.4	40- 50	107.2	362.1	50.5,50.5
60	100.1	92.16	84.84	112.5	130.7	113.4	83.98	89.22	50- 60	102.1	464.2	64.8,64.8
70	77.92	66.39	52.01	85.21	106.2	86.44	51.66	63.73	60- 70	86.46	550.6	76.8,76.8
80	55.77	42.85	20.14	57.31	78.99	58.95	20.45	40.70	70- 80	63.40	614.0	85.7,85.7
90	39.22	26.07	1.479	34.99	56.21	36.75	1.431	24.53	80- 90	39.69	653.7	91.2,91.2
100	28.00	15.35	0.6814	20.74	39.47	22.23	0.4284	11.60	90-100	23.86	677.6	94.6,94.6
110	21.08	12.12	0.9479	16.87	30.56	17.76	0.8691	10.08	100-110	16.32	693.9	96.8,96.8
120	17.08	6.695	1.447	6.912	24.21	8.329	1.256	4.884	110-120	11.81	705.7	98.5,98.5
130	8.153	2.244	1.796	2.004	8.500	1.737	1.570	1.903	120-130	5.377	711.1	99.2,99.2
140	3.033	2.371	2.123	2.084	2.184	1.970	1.804	2.011	130-140	1.910	713.0	99.5,99.5
150	2.872	2.398	2.324	2.392	2.272	2.344	2.071	2.131	140-150	1.420	714.4	99.7,99.7
160	2.999	2.512	2.671	2.713	2.552	2.665	2.552	2.345	150-160	1.143	715.5	99.9,99.9
170	3.053	2.913	3.066	3.026	2.612	2.972	3.020	2.871	160-170	0.7837	716.3	100,100
180	2.872	3.333	3.420	3.413	2.879	3.333	3.427	3.420	170-180	0.2895	716.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-04-08

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	77083	12730
80	45885	16567
75	36485	19586
70	32546	21723
65	30044	23180
60	28614	24239
55	27859	25049
50	27456	25673
45	27254	26194

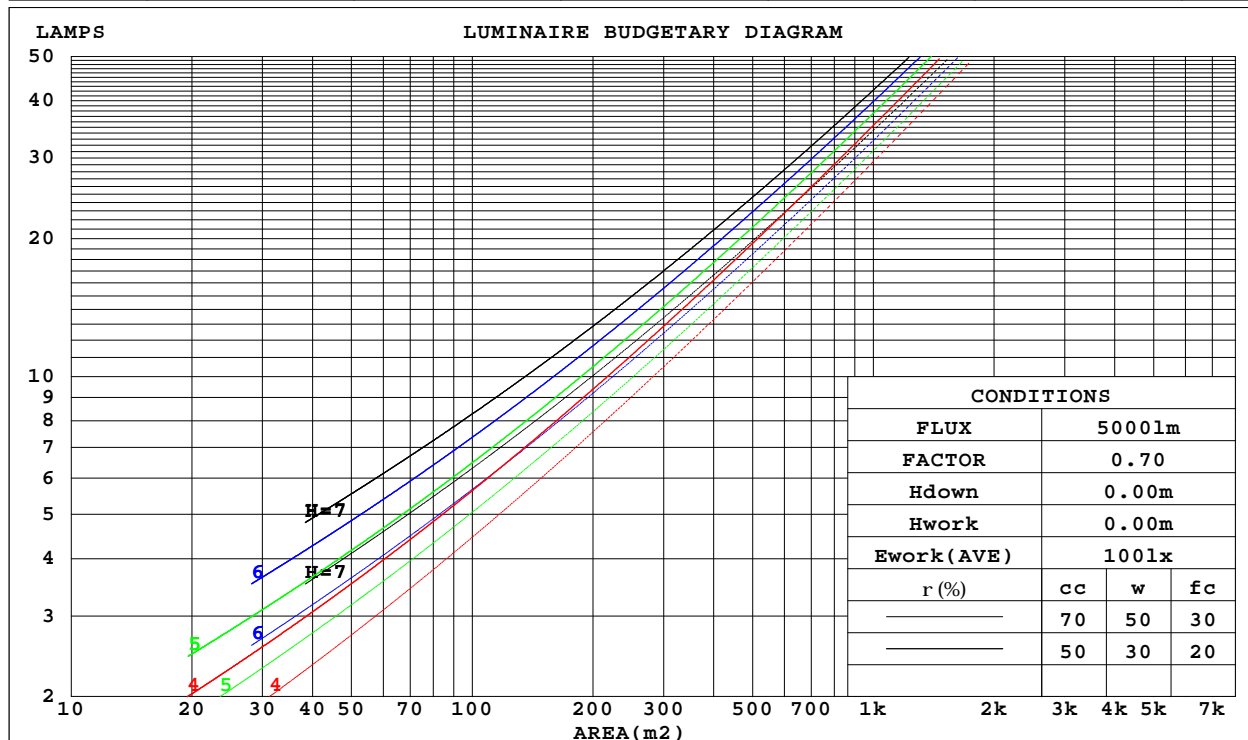
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-04-08

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.360	.205	.065	.350	.200	.063	.332	.190	.061	.315	.182	.058	.299	.173	.056	
2.0	.320	.176	.054	.311	.172	.053	.295	.164	.051	.280	.157	.049	.265	.150	.047	
3.0	.288	.154	.046	.281	.150	.045	.266	.144	.044	.252	.138	.042	.239	.132	.041	
4.0	.262	.136	.040	.255	.133	.039	.241	.128	.038	.229	.123	.037	.217	.118	.036	
5.0	.239	.122	.035	.233	.120	.035	.221	.115	.034	.210	.111	.033	.199	.106	.032	
6.0	.220	.110	.032	.214	.108	.031	.204	.104	.030	.193	.100	.030	.184	.097	.029	
7.0	.204	.101	.029	.198	.099	.028	.189	.095	.027	.179	.092	.027	.171	.089	.026	
8.0	.189	.093	.026	.185	.091	.026	.176	.088	.025	.167	.085	.024	.159	.082	.024	
9.0	.177	.086	.024	.172	.084	.024	.164	.081	.023	.157	.078	.022	.149	.076	.022	
10.0	.166	.079	.022	.162	.078	.022	.154	.076	.021	.147	.073	.021	.140	.071	.020	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.257	.257	.257	.220	.220	.220	.150	.150	.150	.086	.086	.086	.028	.028	.028	
1.0	.251	.223	.198	.215	.192	.170	.147	.132	.118	.085	.076	.068	.027	.025	.022	
2.0	.244	.200	.162	.209	.172	.140	.143	.119	.098	.083	.069	.057	.026	.022	.019	
3.0	.236	.183	.140	.203	.158	.121	.139	.109	.085	.080	.064	.050	.026	.021	.016	
4.0	.229	.170	.125	.196	.147	.109	.135	.102	.076	.078	.060	.045	.025	.020	.015	
5.0	.221	.160	.115	.190	.138	.100	.131	.097	.070	.076	.057	.042	.024	.018	.014	
6.0	.213	.152	.107	.183	.131	.093	.127	.092	.066	.073	.054	.039	.024	.018	.013	
7.0	.206	.145	.102	.178	.126	.089	.123	.088	.063	.071	.052	.037	.023	.017	.012	
8.0	.200	.139	.098	.172	.121	.085	.119	.085	.060	.069	.050	.036	.022	.016	.012	
9.0	.194	.134	.094	.167	.117	.082	.116	.082	.058	.067	.048	.035	.022	.016	.012	
10.0	.188	.130	.092	.162	.113	.080	.112	.079	.057	.065	.047	.034	.021	.015	.011	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm											
NAME: NNT0711					TYPE:01			WEIGHT:			
SPEC.:NNT0711-9WW24CSN050CC0100					DIM.: 1000*7*11mm			SERIAL No.:			
MFR.: COLORS					SUR.:1000*7			Shielding 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	24.9	26.3	25.2	26.7	27.1	24.3	25.8	24.7	26.1	26.5	
	27.0	28.3	27.4	28.7	29.1	25.8	27.2	26.3	27.6	28.0	
	28.1	29.4	28.5	29.8	30.2	26.4	27.7	26.9	28.1	28.6	
	29.2	30.4	29.7	30.9	31.3	26.9	28.1	27.3	28.5	29.0	
	29.9	31.1	30.3	31.5	32.0	27.0	28.1	27.4	28.6	29.1	
	30.6	31.8	31.1	32.2	32.7	27.0	28.1	27.5	28.6	29.1	
4H	2H	25.5	26.7	25.9	27.2	27.6	25.0	26.3	25.5	26.7	27.2
	3H	27.8	28.9	28.2	29.4	29.8	26.8	27.9	27.3	28.4	28.9
	4H	29.0	30.1	29.5	30.5	31.1	27.6	28.6	28.1	29.1	29.6
	6H	30.4	31.3	30.9	31.8	32.4	28.2	29.1	28.7	29.6	30.2
	8H	31.1	32.0	31.7	32.5	33.1	28.4	29.2	28.9	29.7	30.3
	12H	32.0	32.8	32.6	33.4	34.0	28.5	29.3	29.0	29.8	30.4
8H	4H	29.4	30.2	29.9	30.7	31.3	28.1	29.0	28.7	29.5	30.1
	6H	31.0	31.7	31.5	32.2	32.9	29.0	29.7	29.6	30.3	30.9
	8H	31.9	32.5	32.5	33.1	33.8	29.3	30.0	29.9	30.6	31.2
	12H	33.0	33.6	33.6	34.2	34.8	29.6	30.2	30.2	30.8	31.5
12H	4H	29.4	30.2	29.9	30.7	31.3	28.3	29.1	28.8	29.6	30.2
	6H	31.1	31.7	31.7	32.3	32.9	29.3	29.9	29.9	30.5	31.1
	8H	32.1	32.7	32.7	33.3	33.9	29.7	30.3	30.4	30.9	31.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.4					

CIE Pub.117, 716.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.2)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

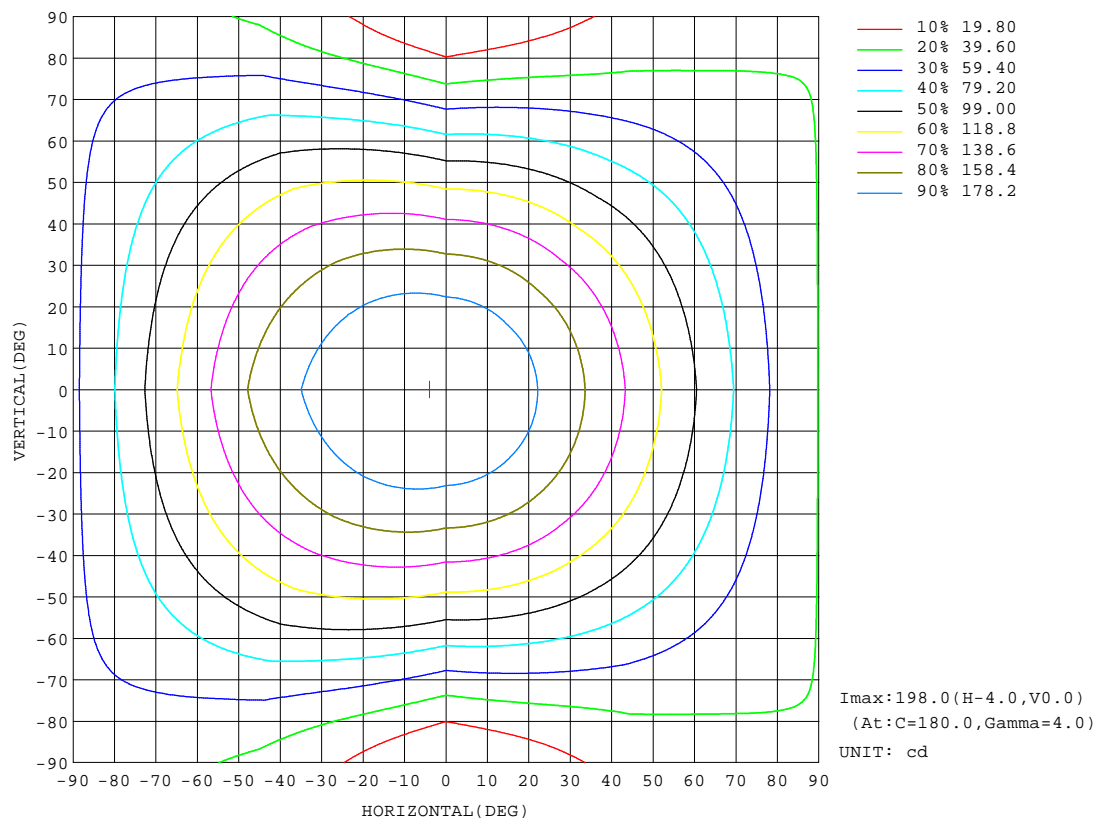
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	40	33	51	40	33	50	39	32	26
0.80	62	49	41	60	48	41	58	47	40	33
1.00	70	57	49	68	57	49	65	58	48	40
1.25	77	65	57	75	64	56	71	62	55	46
1.50	82	70	62	79	69	62	76	67	60	51
2.00	89	79	71	86	77	70	82	74	68	58
2.50	93	84	76	90	82	75	85	78	73	62
3.00	97	88	82	94	86	80	88	82	77	66
4.00	101	94	88	98	92	86	92	87	83	71
5.00	104	98	93	101	95	90	95	90	86	74
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-04-08

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:



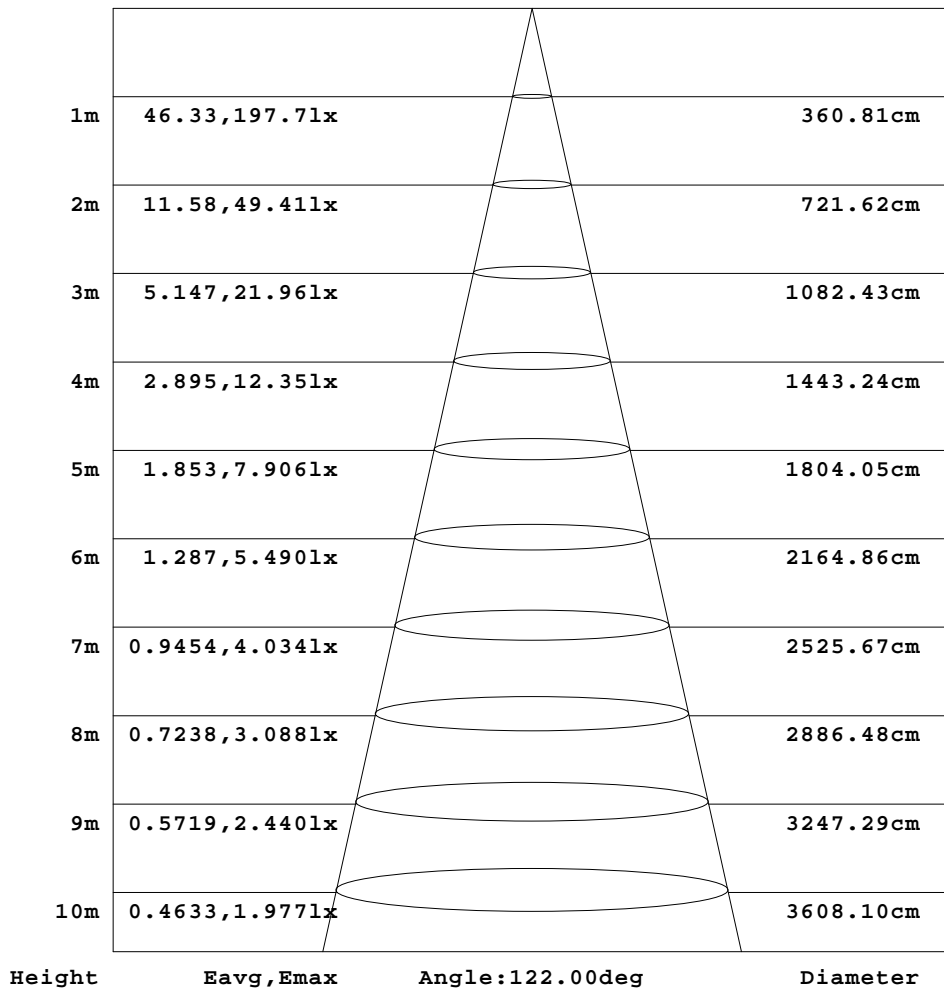
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

Flux out:473.7 lm



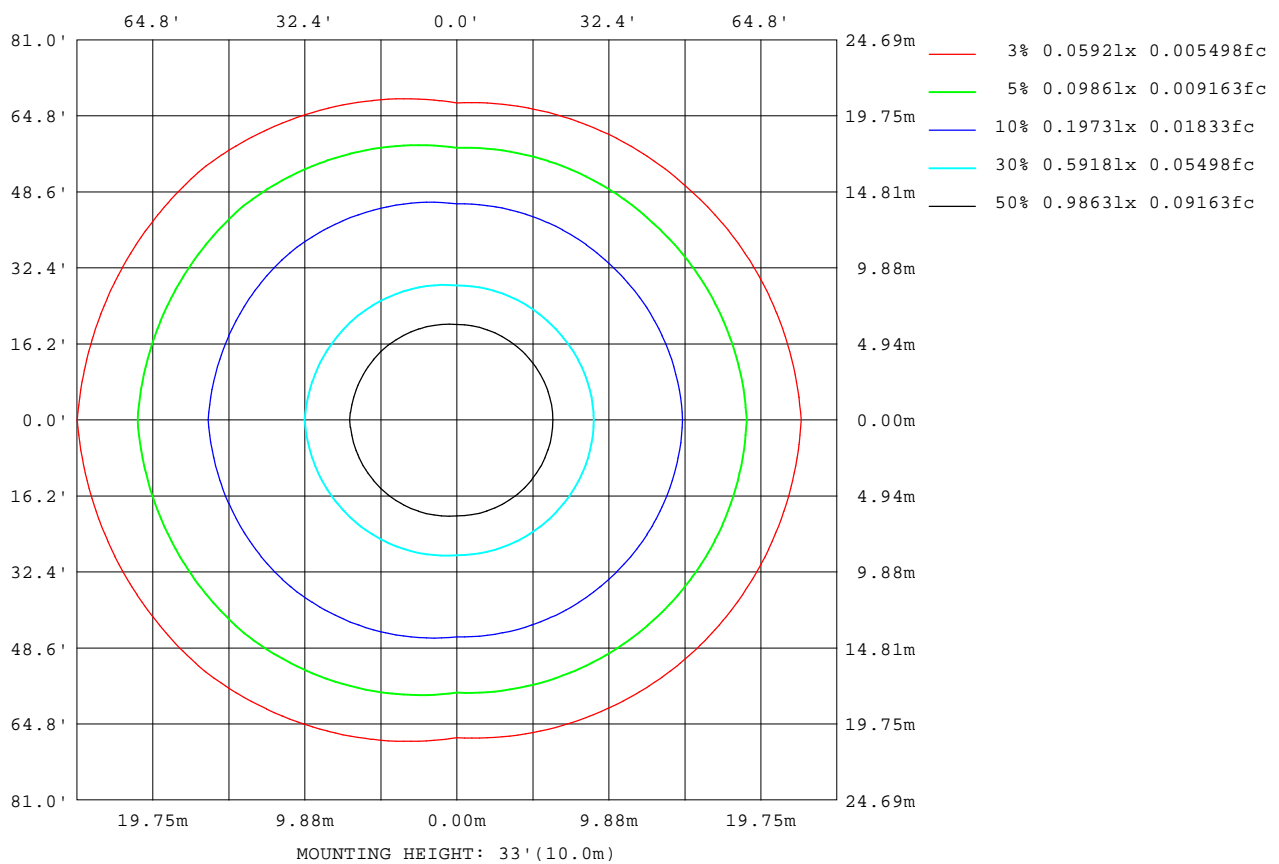
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-04-08

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

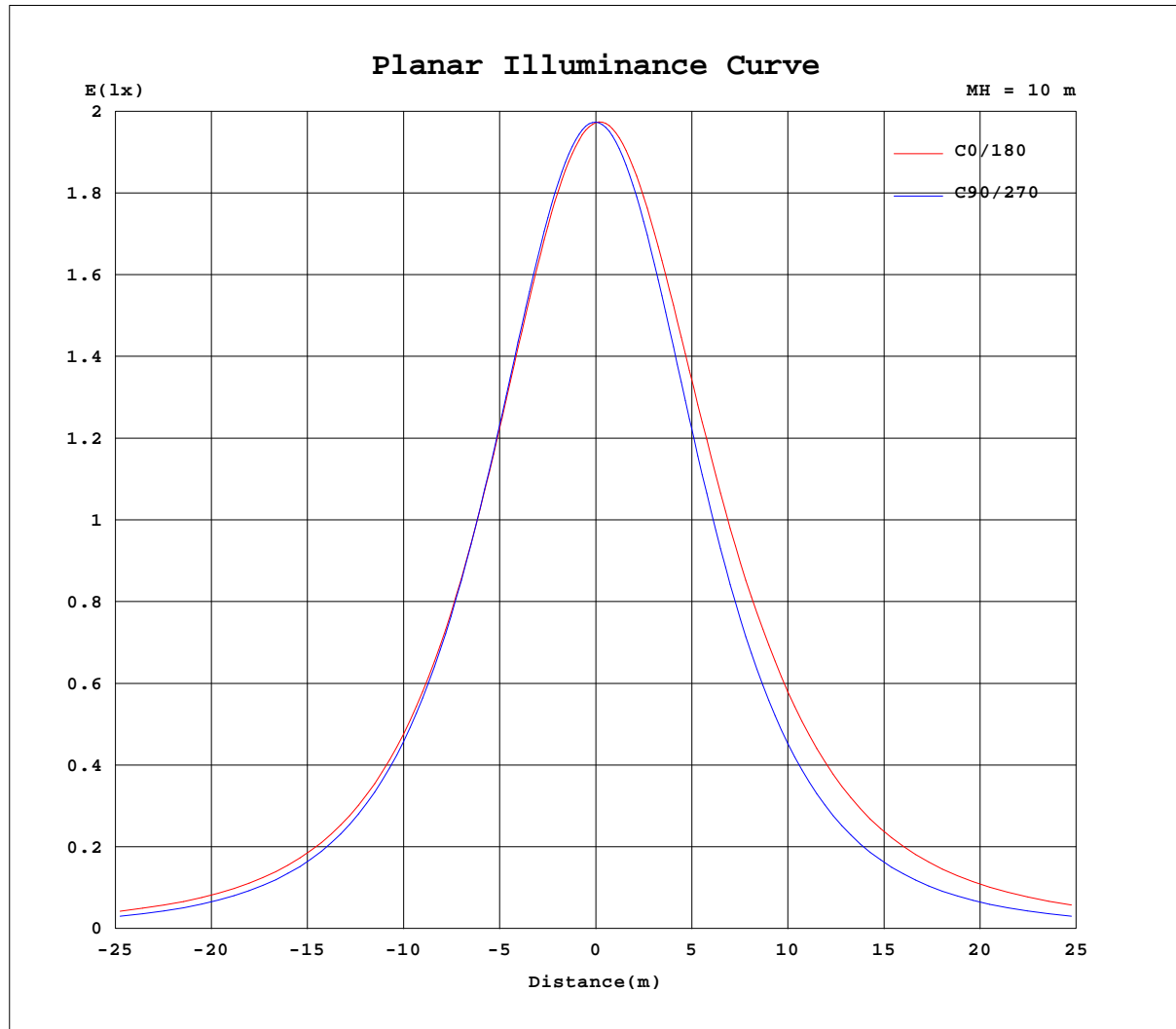
AvgL	cd/m2
L_0~180(65)av	35053
L_0~180(75)av	43733
L_0~180(85)av	93469
L_90~270(65)av	23075
L_90~270(75)av	19581
L_90~270(85)av	13059
L_45(65)av	29941
L_45(75)av	34483
L_45(85)av	64648

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2021-04-08

deg Range: 0 - 180DEG
deg Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.4144A P:9.945W PF:1.000 Freq:0Hz Lamp Flux:716.619x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9WW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	197	197	197	198	197	197	197	198										
5	195	196	197	198	198	197	196	196										
10	192	193	194	197	197	196	193	192										
15	187	188	189	193	196	193	188	187										
20	181	182	183	189	193	188	182	180										
25	174	174	175	183	189	182	174	172										
30	165	165	166	176	184	175	164	163										
35	156	155	155	168	178	167	153	152										
40	146	143	143	158	172	158	141	141										
45	135	131	130	148	164	148	128	128										
50	124	118	116	136	154	137	114	115										
55	112	105	101	125	143	126	99.4	102										
60	100	92.2	84.8	112	131	113	84.0	89.2										
65	88.9	79.1	68.6	99.0	119	100.0	68.0	76.2										
70	77.9	66.4	52.0	85.2	106	86.4	51.7	63.7										
75	66.1	54.3	35.5	71.2	92.4	72.7	35.5	51.7										
80	55.8	42.9	20.1	57.3	79.0	58.9	20.4	40.7										
85	47.0	33.6	7.77	45.3	67.0	47.0	8.17	31.9										
90	39.2	26.1	1.48	35.0	56.2	36.7	1.43	24.5										
95	32.6	19.8	0.89	26.4	46.7	28.0	0.61	18.2										
100	28.0	15.3	0.68	20.7	39.5	22.2	0.43	11.6										
105	23.8	13.7	0.72	18.4	34.3	19.3	0.65	12.0										
110	21.1	12.1	0.95	16.9	30.6	17.8	0.87	10.1										
115	19.2	10.4	1.21	13.3	27.7	15.0	1.07	9.03										
120	17.1	6.70	1.45	6.91	24.2	8.33	1.26	4.88										
125	14.9	2.51	1.62	2.35	19.7	2.61	1.42	1.82										
130	8.15	2.24	1.80	2.00	8.50	1.74	1.57	1.90										
135	3.24	2.34	1.95	2.04	2.75	1.82	1.70	1.95										
140	3.03	2.37	2.12	2.08	2.18	1.97	1.80	2.01										
145	2.97	2.38	2.20	2.20	2.24	2.14	1.92	2.10										
150	2.87	2.40	2.32	2.39	2.27	2.34	2.07	2.13										
155	2.87	2.44	2.46	2.57	2.41	2.54	2.32	2.21										
160	3.00	2.51	2.67	2.71	2.55	2.67	2.55	2.34										
165	3.00	2.67	2.87	2.87	2.64	2.79	2.80	2.56										
170	3.05	2.91	3.07	3.03	2.61	2.97	3.02	2.87										
175	2.87	3.15	3.22	3.22	2.64	3.19	3.24	3.13										
180	2.87	3.33	3.42	3.41	2.88	3.33	3.43	3.42										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks: