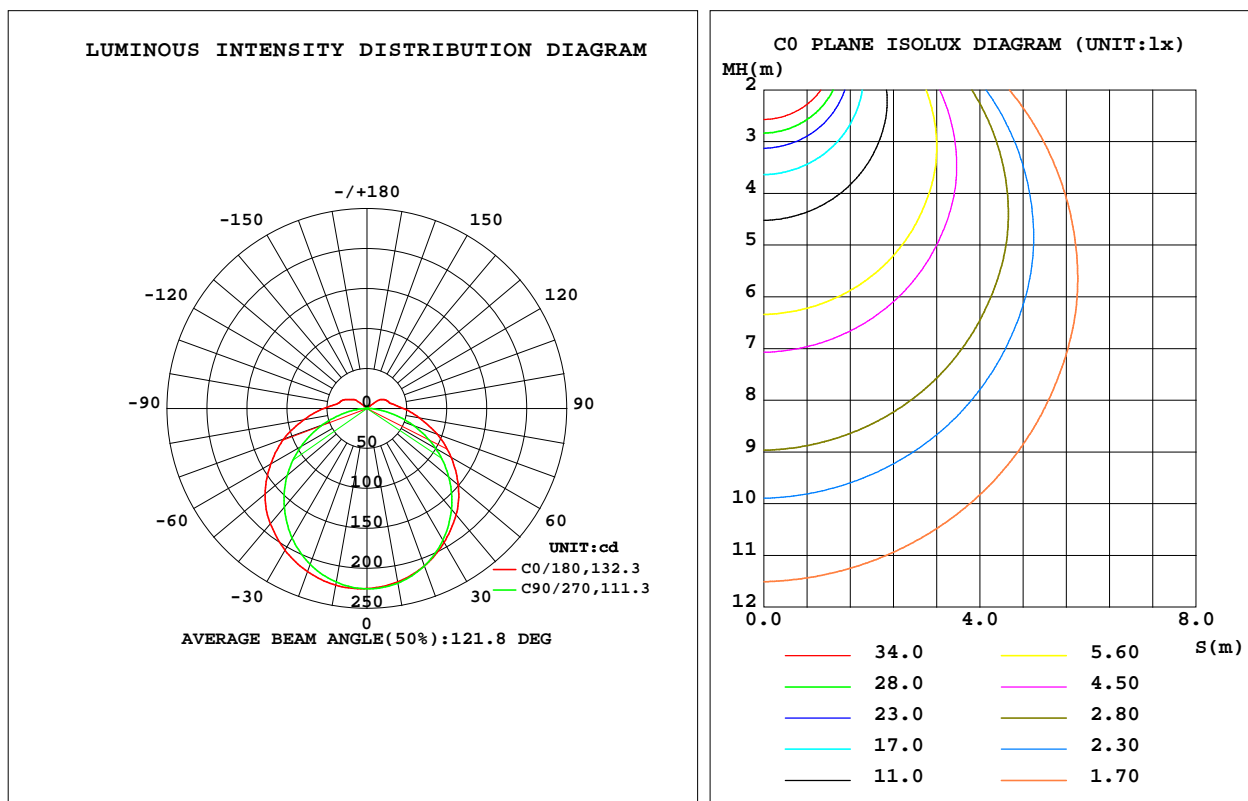


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.35 lm/W			
MODEL	NNT0711	I _{max} (cd)	226.0	S/MH(C0/180)	1.28
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	809.47	h UP,DN(C0-180)	4.2,45.5
NOMINAL FLUX(lm)	809.466	CIE CLASS	DIRECT	h UP,DN(C180-360)	4.2,46.1
LAMPS INSIDE	1	h up(%)	8.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	91.6	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:

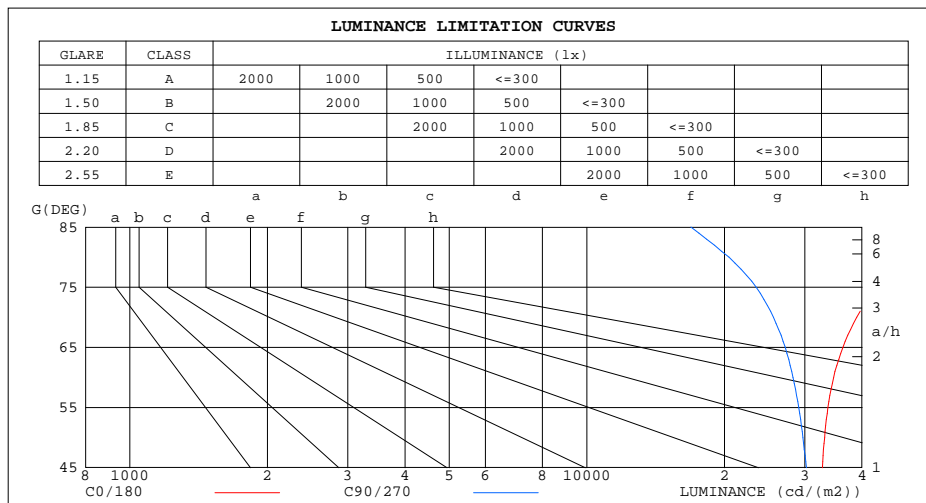
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	220.3	221.0	221.8	224.2	224.4	222.9	220.5	220.2	0- 10	21.35	21.35	2.64,2.64
20	209.6	209.6	209.7	214.9	217.1	212.9	207.5	207.6	10- 20	61.37	82.73	10.2,10.2
30	193.3	191.7	190.2	199.0	204.9	196.5	187.3	188.9	20- 30	93.73	176.5	21.8,21.8
40	173.5	168.2	164.5	177.6	188.2	175.1	161.1	164.7	30- 40	114.7	291.2	36,36
50	149.0	141.1	133.6	151.5	166.4	149.2	130.3	137.2	40- 50	122.5	413.7	51.1,51.1
60	121.3	111.6	98.95	123.2	139.0	121.0	95.55	107.6	50- 60	116.4	530.1	65.5,65.5
70	93.28	80.58	61.35	91.88	110.7	90.07	58.39	77.03	60- 70	97.97	628.0	77.6,77.6
80	65.96	50.81	24.87	59.90	79.75	58.56	22.96	47.85	70- 80	70.51	698.5	86.3,86.3
90	45.98	30.35	1.777	34.85	54.39	34.13	1.159	28.36	80- 90	42.65	741.2	91.6,91.6
100	32.77	17.91	0.7014	21.43	37.12	21.15	0.4964	14.01	90-100	24.65	765.8	94.6,94.6
110	27.69	16.44	1.081	17.26	31.58	17.24	1.036	14.66	100-110	18.12	784.0	96.8,96.8
120	22.89	5.995	1.609	7.534	22.94	7.663	1.477	5.022	110-120	13.34	797.3	98.5,98.5
130	7.162	2.525	2.010	2.444	8.700	2.111	1.844	2.131	120-130	5.861	803.2	99.2,99.2
140	3.440	2.578	2.351	2.438	2.711	2.330	2.118	2.338	130-140	2.139	805.3	99.5,99.5
150	3.186	2.665	2.572	2.779	2.632	2.763	2.426	2.445	140-150	1.626	806.9	99.7,99.7
160	3.306	2.820	3.052	3.133	2.912	3.072	2.954	2.685	150-160	1.307	808.2	99.8,99.8
170	3.420	3.287	3.486	3.447	2.986	3.413	3.460	3.279	160-170	0.8958	809.1	100,100
180	3.213	3.841	3.847	3.914	3.199	3.841	3.874	3.934	170-180	0.3303	809.5	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:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	90757	16904
80	54262	20463
75	43318	23476
70	38960	25627
65	36325	27170
60	34663	28272
55	33693	29081
50	33125	29693
45	32758	30223

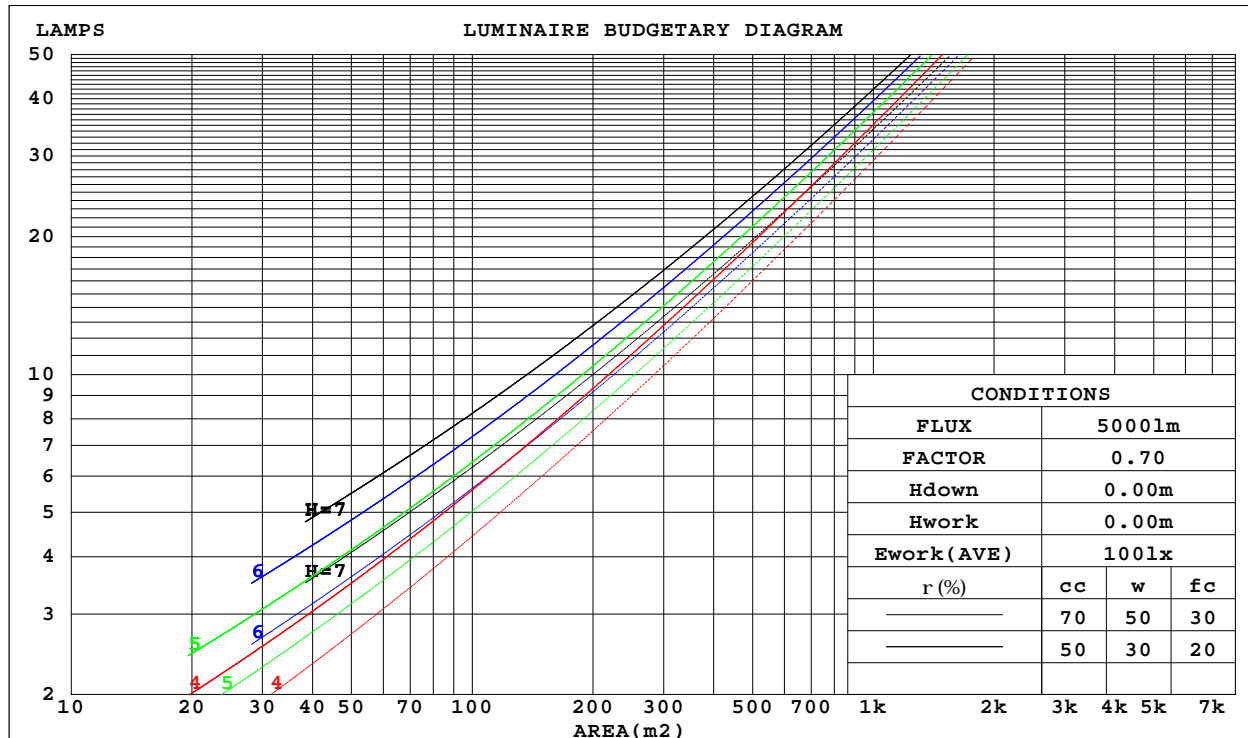
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-04-08

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:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	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
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
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:

WEC AND CCEC

Test:U:24.00V I:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	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	.357	.203	.064	.347	.198	.063	.329	.188	.060	.312	.180	.058	.296	.172	.055	
2.0	.318	.174	.054	.310	.171	.053	.293	.163	.051	.278	.156	.049	.264	.149	.047	
3.0	.287	.153	.046	.279	.150	.045	.265	.143	.044	.251	.138	.042	.239	.132	.041	
4.0	.261	.136	.040	.254	.133	.039	.241	.128	.038	.229	.123	.037	.217	.118	.036	
5.0	.239	.122	.035	.232	.119	.035	.221	.115	.034	.210	.111	.033	.199	.106	.032	
6.0	.220	.110	.032	.214	.108	.031	.203	.104	.030	.193	.100	.030	.184	.097	.029	
7.0	.203	.101	.029	.198	.099	.028	.189	.095	.027	.179	.092	.027	.171	.089	.026	
8.0	.189	.092	.026	.184	.091	.026	.176	.088	.025	.167	.085	.024	.159	.082	.024	
9.0	.177	.085	.024	.172	.084	.024	.164	.081	.023	.157	.079	.022	.149	.076	.022	
10.0	.166	.079	.022	.162	.078	.022	.154	.076	.021	.147	.073	.021	.141	.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	.255	.255	.255	.218	.218	.218	.149	.149	.149	.085	.085	.085	.027	.027	.027	
1.0	.248	.221	.195	.212	.189	.168	.145	.130	.116	.084	.075	.068	.027	.024	.022	
2.0	.241	.197	.160	.206	.170	.138	.141	.117	.096	.082	.068	.057	.026	.022	.018	
3.0	.233	.180	.137	.200	.155	.119	.137	.108	.084	.079	.063	.049	.025	.020	.016	
4.0	.226	.167	.122	.194	.144	.106	.133	.101	.075	.077	.059	.044	.025	.019	.015	
5.0	.218	.157	.112	.187	.136	.097	.129	.095	.069	.075	.056	.041	.024	.018	.013	
6.0	.211	.149	.105	.181	.129	.091	.125	.090	.064	.072	.053	.038	.023	.017	.013	
7.0	.204	.142	.099	.175	.123	.086	.121	.086	.061	.070	.051	.036	.023	.017	.012	
8.0	.197	.136	.095	.170	.118	.083	.117	.083	.059	.068	.049	.035	.022	.016	.012	
9.0	.191	.132	.092	.164	.114	.080	.114	.080	.057	.066	.047	.034	.021	.016	.011	
10.0	.185	.127	.089	.159	.111	.078	.111	.078	.055	.064	.046	.033	.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:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm											
NAME: NNT0711					TYPE:01			WEIGHT:			
SPEC.:NNT0711-9NW24CSN050CC0100					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	25.3	26.8	25.7	27.1	27.5	24.6	26.1	25.0	26.4	26.8	
	3H	27.4	28.8	27.8	29.2	29.6	26.2	27.5	26.6	27.9	28.3
	4H	28.5	29.8	28.9	30.2	30.6	26.8	28.1	27.2	28.5	28.9
	6H	29.6	30.9	30.1	31.3	31.7	27.2	28.4	27.7	28.9	29.3
	8H	30.3	31.4	30.7	31.9	32.4	27.3	28.5	27.8	29.0	29.4
	12H	31.0	32.1	31.5	32.6	33.1	27.4	28.5	27.9	29.0	29.5
4H	2H	25.9	27.2	26.4	27.6	28.1	25.4	26.7	25.8	27.1	27.5
	3H	28.2	29.4	28.7	29.8	30.3	27.2	28.3	27.7	28.8	29.3
	4H	29.5	30.5	30.0	31.0	31.5	28.0	29.0	28.5	29.5	30.0
	6H	30.8	31.7	31.3	32.2	32.8	28.6	29.5	29.1	30.0	30.5
	8H	31.5	32.4	32.1	32.9	33.5	28.8	29.6	29.3	30.2	30.7
	12H	32.4	33.2	32.9	33.7	34.3	28.9	29.7	29.5	30.2	30.8
8H	4H	29.8	30.7	30.3	31.2	31.7	28.5	29.4	29.1	29.9	30.5
	6H	31.4	32.1	31.9	32.6	33.2	29.4	30.1	30.0	30.7	31.3
	8H	32.3	32.9	32.9	33.5	34.1	29.8	30.4	30.4	31.0	31.6
	12H	33.4	33.9	34.0	34.5	35.2	30.1	30.6	30.7	31.2	31.9
12H	4H	29.8	30.6	30.4	31.1	31.7	28.7	29.5	29.2	30.0	30.6
	6H	31.5	32.1	32.1	32.7	33.3	29.7	30.3	30.3	30.9	31.5
	8H	32.5	33.0	33.1	33.6	34.3	30.2	30.7	30.8	31.3	32.0
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					+ 0.2 / - 0.4					

CIE Pub.117, 809.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)

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:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

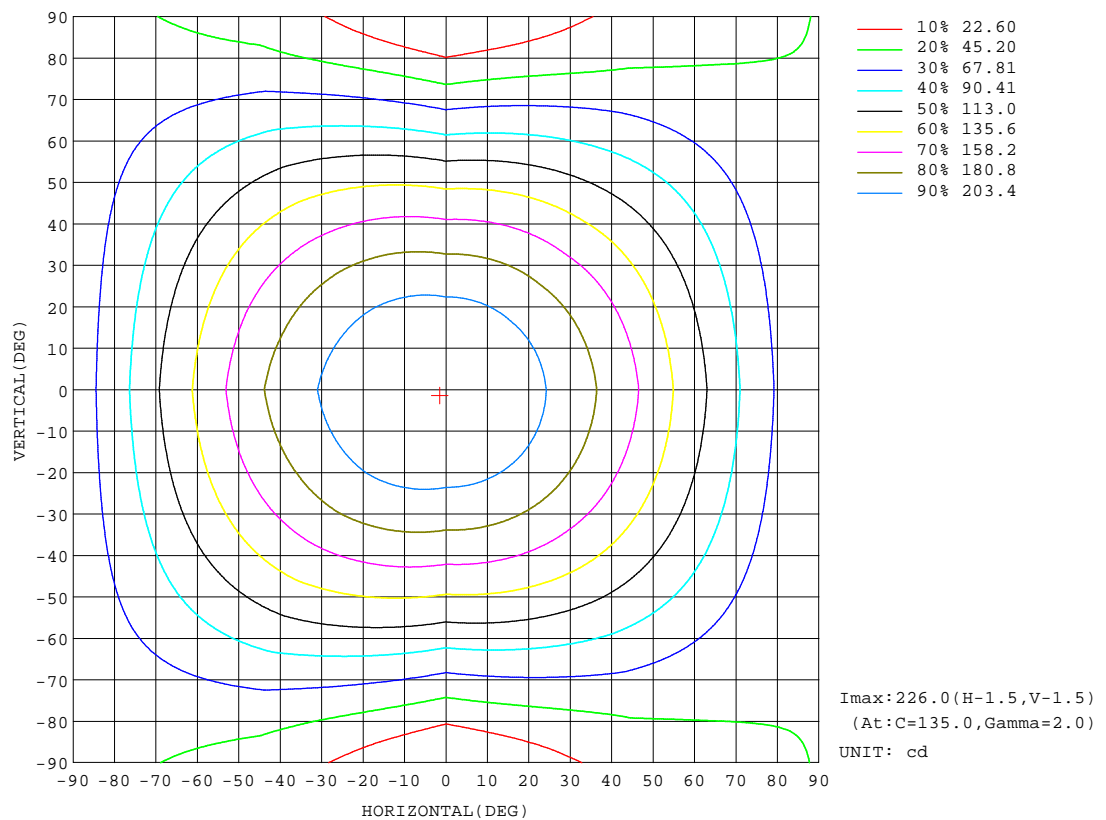
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	40	33	51	40	33	50	39	33	26
0.80	62	49	42	61	49	41	58	48	41	33
1.00	70	58	50	68	57	49	65	58	49	41
1.25	77	65	57	75	64	57	72	62	55	47
1.50	82	71	63	80	69	62	76	67	61	52
2.00	89	79	72	87	77	70	82	74	68	59
2.50	93	84	77	91	82	76	86	79	73	63
3.00	97	89	82	94	87	80	89	83	78	67
4.00	101	94	89	98	92	87	93	87	83	72
5.00	104	98	93	101	95	91	95	91	87	75
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:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:



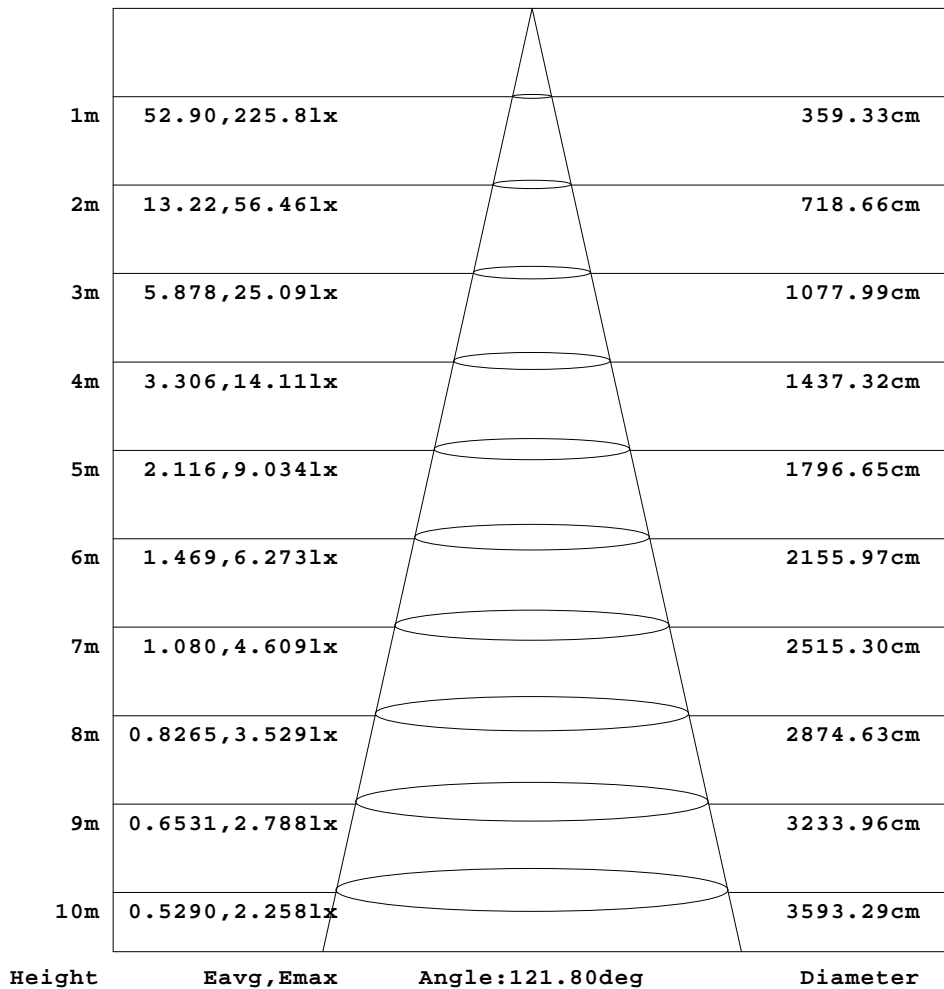
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

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:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

Flux out:540.9 lm



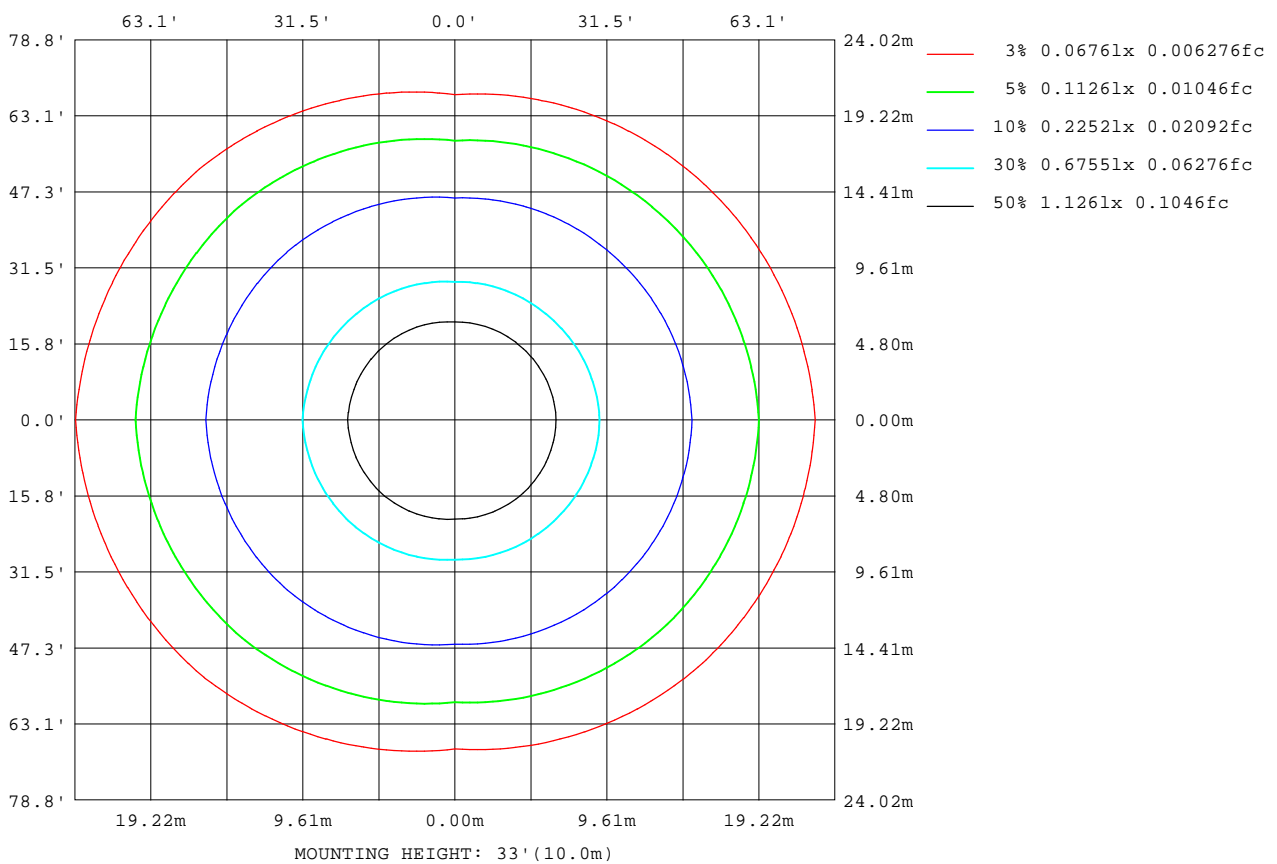
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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
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:

ISOLUX DIAGRAM

Test:U:24.00V I:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	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:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

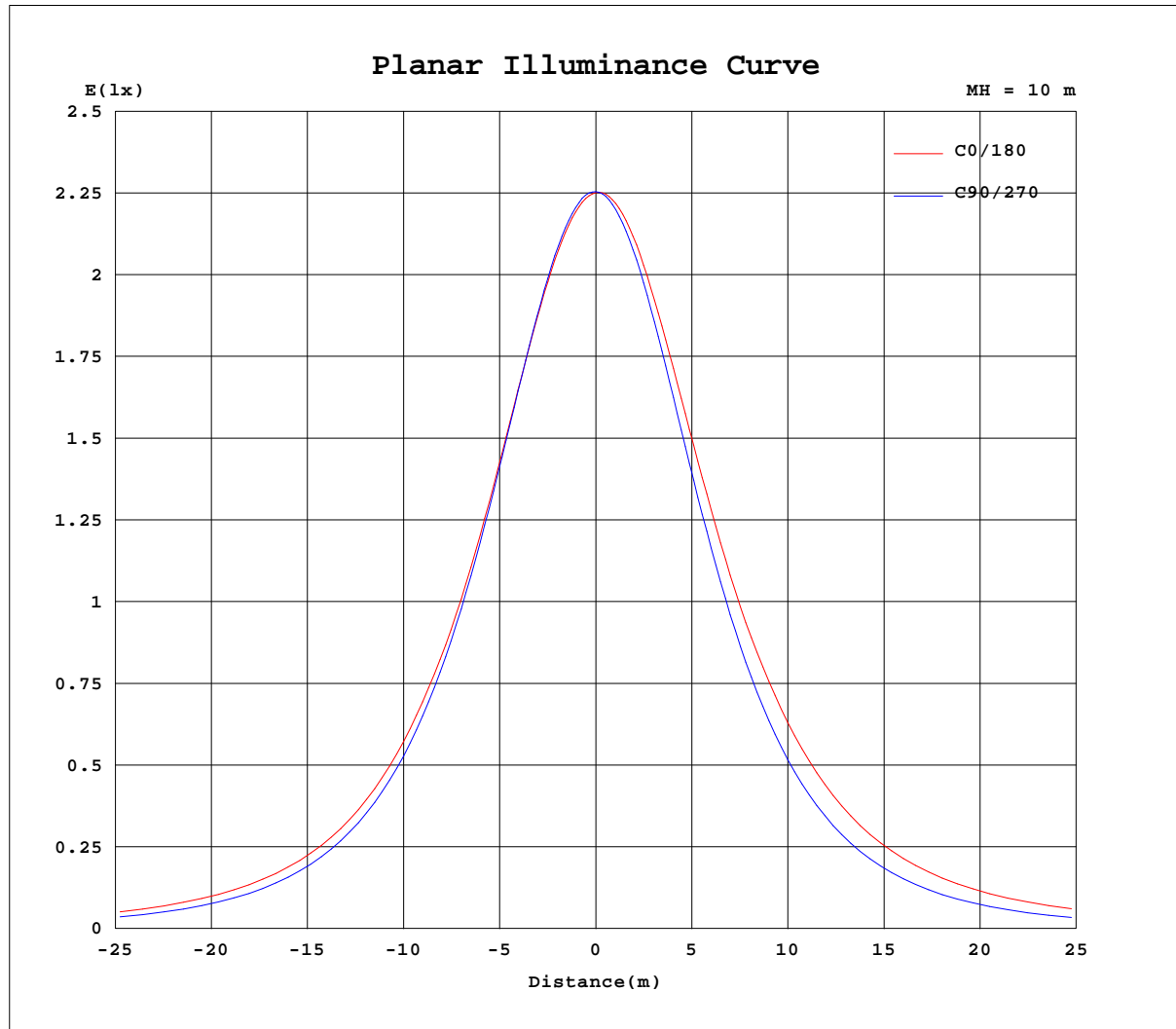
AvgL	cd/m2
L_0~180(65)av	39272
L_0~180(75)av	47829
L_0~180(85)av	99793
L_90~270(65)av	26626
L_90~270(75)av	22800
L_90~270(85)av	15418
L_45(65)av	33930
L_45(75)av	38196
L_45(85)av	68980

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:0.4361A P:10.47W PF:1.000 Freq:0Hz Lamp Flux:809.466x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9NW24CSN050CC0100	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	225	225	225	226	225	225	225	226										
5	223	224	225	226	226	225	224	224										
10	220	221	222	224	224	223	221	220										
15	216	216	217	220	222	219	215	215										
20	210	210	210	215	217	213	208	208										
25	202	201	201	208	212	205	198	199										
30	193	192	190	199	205	197	187	189										
35	183	181	178	189	197	186	175	177										
40	174	168	164	178	188	175	161	165										
45	162	155	150	165	178	162	146	151										
50	149	141	134	151	166	149	130	137										
55	135	127	117	138	153	136	113	123										
60	121	112	99.0	123	139	121	95.6	108										
65	107	96.1	80.4	108	125	106	77.2	92.2										
70	93.3	80.6	61.4	91.9	111	90.1	58.4	77.0										
75	78.5	65.1	42.5	75.8	94.8	74.1	40.1	61.8										
80	66.0	50.8	24.9	59.9	79.7	58.6	23.0	47.9										
85	55.4	39.6	10.3	46.3	66.4	45.3	8.50	37.1										
90	46.0	30.4	1.78	34.9	54.4	34.1	1.16	28.4										
95	38.2	21.9	1.18	25.6	44.0	25.2	0.99	20.1										
100	32.8	17.9	0.70	21.4	37.1	21.2	0.50	14.0										
105	29.1	17.8	0.83	19.7	34.4	19.5	0.77	15.7										
110	27.7	16.4	1.08	17.3	31.6	17.2	1.04	14.7										
115	25.7	13.5	1.37	13.6	27.3	14.2	1.26	12.8										
120	22.9	6.00	1.61	7.53	22.9	7.66	1.48	5.02										
125	19.1	2.58	1.82	3.18	19.5	2.88	1.66	2.24										
130	7.16	2.52	2.01	2.44	8.70	2.11	1.84	2.13										
135	3.75	2.56	2.20	2.41	3.82	2.12	1.99	2.20										
140	3.44	2.58	2.35	2.44	2.71	2.33	2.12	2.34										
145	3.27	2.61	2.45	2.59	2.60	2.54	2.24	2.38										
150	3.19	2.67	2.57	2.78	2.63	2.76	2.43	2.44										
155	3.21	2.72	2.78	2.97	2.75	2.93	2.70	2.56										
160	3.31	2.82	3.05	3.13	2.91	3.07	2.95	2.68										
165	3.42	3.02	3.27	3.29	3.05	3.22	3.22	2.99										
170	3.42	3.29	3.49	3.45	2.99	3.41	3.46	3.28										
175	3.23	3.59	3.72	3.68	2.98	3.62	3.70	3.63										
180	3.21	3.84	3.85	3.91	3.20	3.84	3.87	3.93										

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: