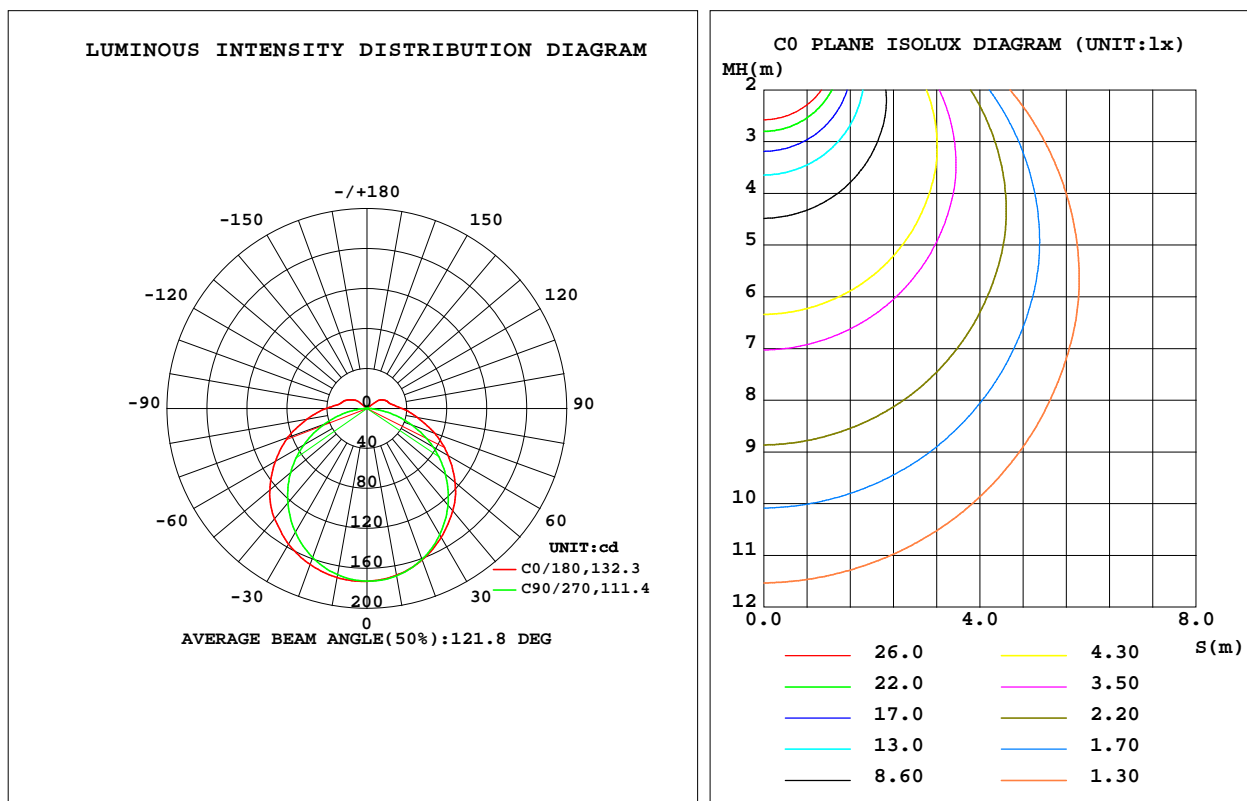


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.51 lm/W			
MODEL	NNT0711	I _{max} (cd)	173.0	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)	619.25	h UP,DN(C0-180)	4.2,45.6
NOMINAL FLUX(lm)	619.249	CIE CLASS	DIRECT	h UP,DN(C180-360)	4.2,46.0
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

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

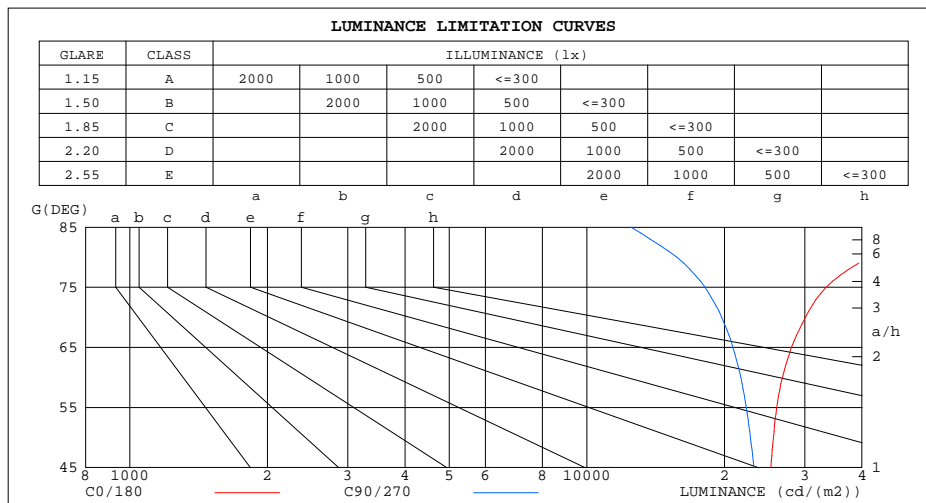
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	169.5	169.9	170.0	171.2	171.8	170.6	168.9	168.7	0- 10	16.37	16.37	2.64,2.64
20	161.3	161.2	160.8	164.0	166.2	162.6	158.8	159.1	10- 20	47.03	63.40	10.2,10.2
30	148.7	147.3	145.8	151.8	156.8	150.0	143.3	144.7	20- 30	71.79	135.2	21.8,21.8
40	133.7	129.1	126.2	135.5	143.9	133.5	123.2	126.3	30- 40	87.85	223.0	36,36
50	115.2	108.3	102.6	115.4	126.9	113.5	99.69	105.5	40- 50	93.79	316.8	51.2,51.2
60	93.73	85.97	76.01	93.86	105.9	91.91	73.16	83.04	50- 60	89.18	406.0	65.6,65.6
70	72.03	62.02	47.25	69.81	84.14	68.09	44.73	59.43	60- 70	75.01	481.0	77.7,77.7
80	50.84	38.80	19.12	45.33	60.46	44.07	17.64	36.91	70- 80	53.90	534.9	86.4,86.4
90	35.37	22.88	1.271	26.21	41.09	25.52	0.8922	21.83	80- 90	32.44	567.4	91.6,91.6
100	25.36	13.99	0.5477	15.86	27.70	15.74	0.3816	10.78	90-100	18.68	586.0	94.6,94.6
110	21.56	12.64	0.8196	13.02	23.68	13.05	0.7820	11.29	100-110	13.80	599.8	96.9,96.9
120	17.49	4.444	1.242	6.196	17.39	6.379	1.116	3.461	110-120	10.18	610.0	98.5,98.5
130	4.943	1.917	1.549	1.837	7.335	1.663	1.396	1.576	120-130	4.460	614.5	99.2,99.2
140	2.639	1.964	1.790	1.844	1.990	1.750	1.597	1.676	130-140	1.617	616.1	99.5,99.5
150	2.445	2.051	1.950	2.098	1.984	2.043	1.830	1.790	140-150	1.226	617.3	99.7,99.7
160	2.552	2.157	2.338	2.399	2.192	2.338	2.238	1.997	150-160	0.9886	618.3	99.8,99.8
170	2.625	2.512	2.645	2.645	2.271	2.571	2.646	2.451	160-170	0.6811	619.0	100,100
180	2.478	2.959	2.992	2.992	2.451	2.912	2.992	2.992	170-180	0.2520	619.2	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
 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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	69897	12481
80	41822	15732
75	33405	18126
70	30085	19734
65	28035	20883
60	26779	21716
55	26033	22325
50	25604	22807
45	25283	23197

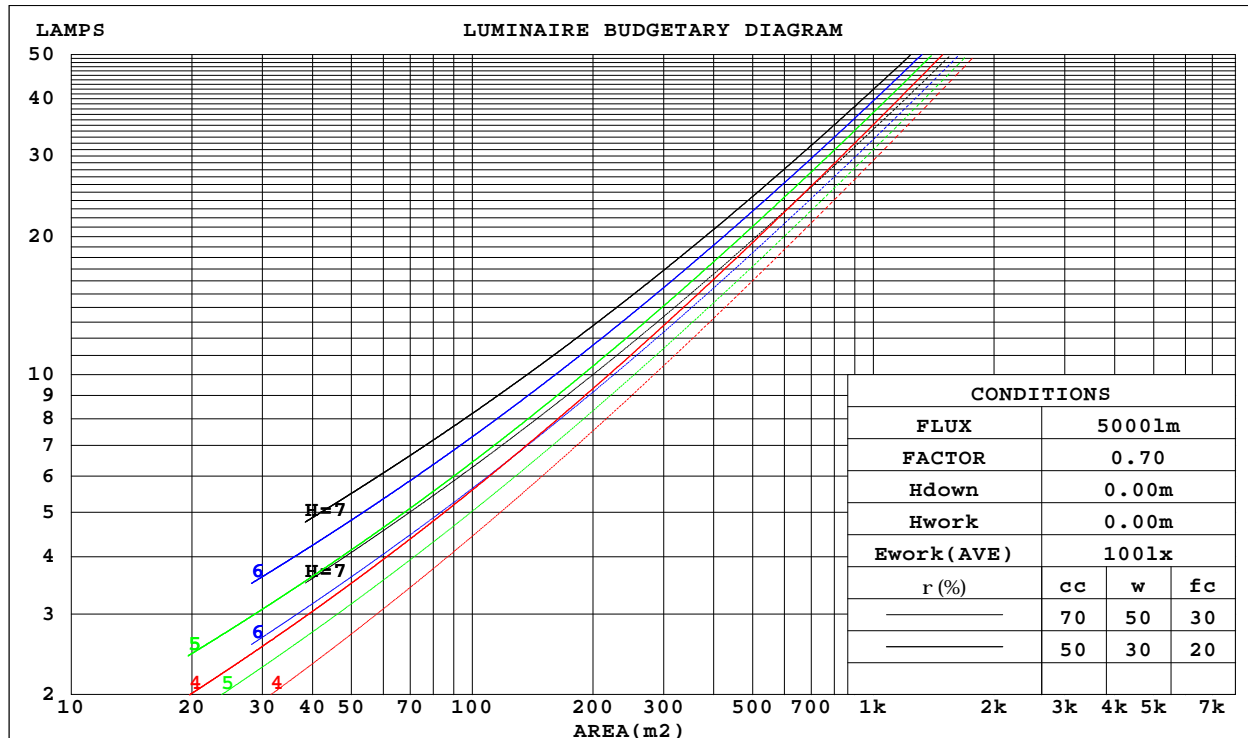
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-04-08

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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	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	.356	.203	.064	.347	.198	.063	.328	.188	.060	.312	.180	.058	.296	.172	.055	
2.0	.318	.174	.054	.310	.170	.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	.028	.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	.160	.082	.024	
9.0	.177	.085	.024	.172	.084	.024	.164	.081	.023	.157	.079	.022	.150	.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	.254	.254	.254	.217	.217	.217	.148	.148	.148	.085	.085	.085	.027	.027	.027	
1.0	.248	.220	.195	.212	.189	.168	.145	.130	.116	.084	.075	.068	.027	.024	.022	
2.0	.241	.197	.160	.206	.169	.138	.141	.117	.096	.081	.068	.056	.026	.022	.018	
3.0	.233	.180	.137	.200	.155	.119	.137	.108	.083	.079	.063	.049	.025	.020	.016	
4.0	.225	.167	.122	.193	.144	.106	.133	.100	.075	.077	.059	.044	.025	.019	.015	
5.0	.218	.157	.112	.187	.135	.097	.129	.095	.069	.075	.056	.041	.024	.018	.013	
6.0	.210	.148	.104	.181	.129	.091	.125	.090	.064	.072	.053	.038	.023	.017	.013	
7.0	.203	.142	.099	.175	.123	.086	.121	.086	.061	.070	.051	.036	.023	.017	.012	
8.0	.197	.136	.094	.169	.118	.082	.117	.083	.058	.068	.049	.035	.022	.016	.012	
9.0	.190	.131	.091	.164	.114	.080	.114	.080	.056	.066	.047	.034	.021	.016	.011	
10.0	.184	.127	.089	.159	.110	.077	.110	.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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm										
NAME: NNT0711					TYPE:01			WEIGHT:		
SPEC.:NNT0711-9LW24CSN050CC0100					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	25.4	26.8	25.8	27.2	27.6	24.7	26.1	25.0	26.5	26.8
3H	27.5	28.8	27.9	29.2	29.6	26.2	27.6	26.6	28.0	28.4
4H	28.6	29.8	29.0	30.3	30.7	26.8	28.1	27.3	28.5	29.0
6H	29.7	30.9	30.1	31.3	31.8	27.3	28.5	27.7	28.9	29.4
8H	30.3	31.5	30.8	31.9	32.4	27.4	28.6	27.8	29.0	29.5
12H	31.1	32.2	31.5	32.6	33.1	27.4	28.6	27.9	29.0	29.5
4H 2H	26.0	27.3	26.4	27.7	28.1	25.4	26.7	25.9	27.1	27.6
3H	28.3	29.4	28.8	29.9	30.4	27.2	28.4	27.7	28.8	29.3
4H	29.5	30.6	30.0	31.0	31.5	28.0	29.0	28.5	29.5	30.0
6H	30.8	31.8	31.4	32.3	32.8	28.6	29.5	29.1	30.0	30.6
8H	31.6	32.4	32.1	33.0	33.5	28.8	29.7	29.3	30.2	30.8
12H	32.4	33.2	33.0	33.8	34.4	28.9	29.7	29.5	30.3	30.9
8H 4H	29.8	30.7	30.4	31.2	31.8	28.6	29.4	29.1	30.0	30.5
6H	31.4	32.1	32.0	32.7	33.3	29.4	30.2	30.0	30.7	31.3
8H	32.3	33.0	32.9	33.5	34.2	29.8	30.4	30.4	31.0	31.6
12H	33.4	34.0	34.0	34.6	35.2	30.1	30.6	30.7	31.2	31.9
12H 4H	29.9	30.7	30.4	31.2	31.8	28.7	29.5	29.2	30.0	30.6
6H	31.5	32.2	32.1	32.7	33.4	29.7	30.4	30.3	30.9	31.6
8H	32.5	33.1	33.1	33.7	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, 619.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.7)

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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

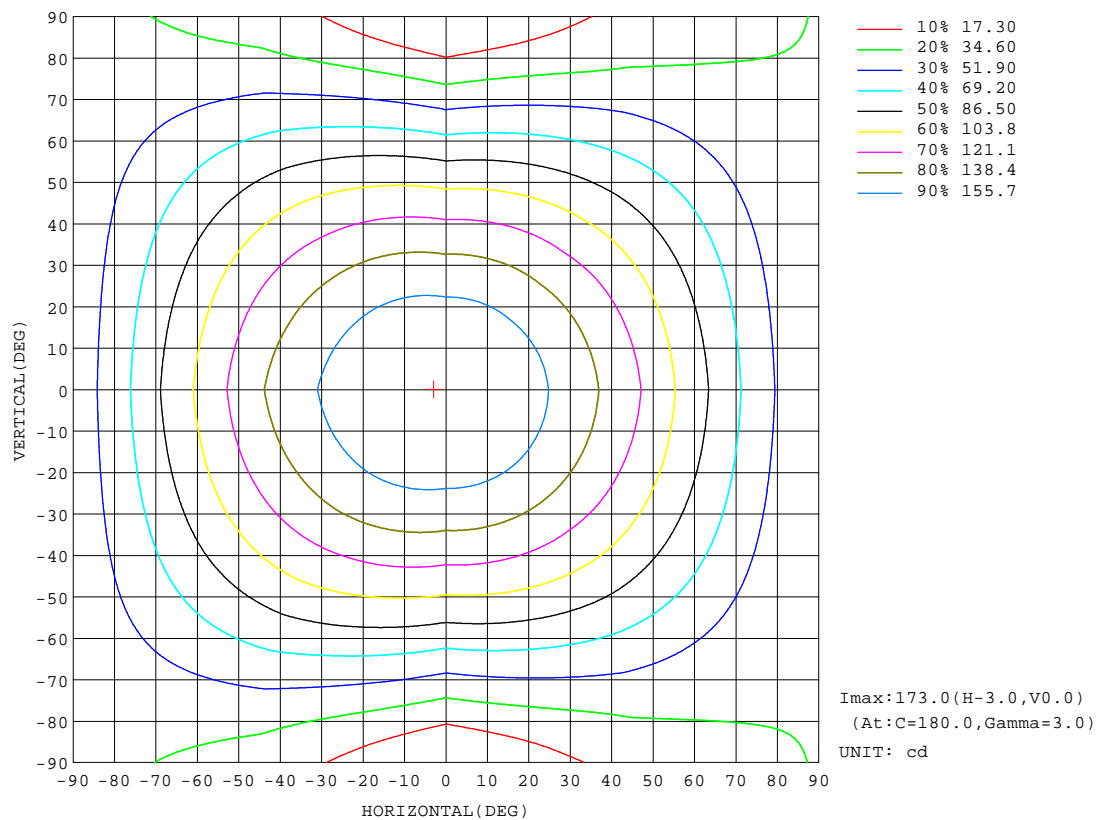
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	40	33	51	40	33	50	39	33	26
0.80	62	49	42	61	49	41	58	48	41	33
1.00	70	58	50	68	57	49	66	58	49	41
1.25	77	65	57	75	64	57	72	62	55	47
1.50	82	71	63	80	70	62	76	67	61	52
2.00	89	79	72	87	77	71	82	74	68	59
2.50	93	84	77	91	82	76	86	79	73	63
3.00	97	89	82	94	87	81	89	83	78	67
4.00	101	94	89	98	92	87	93	88	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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:



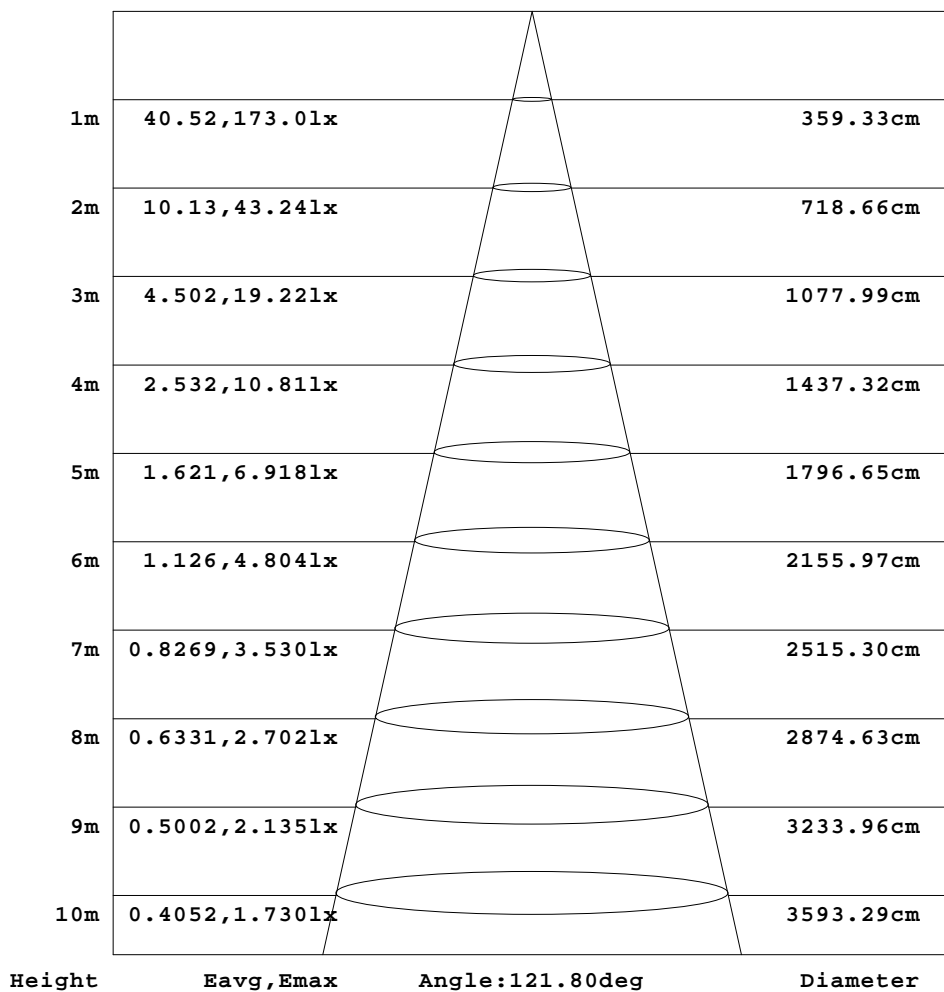
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-08

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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

Flux out:414.3 lm



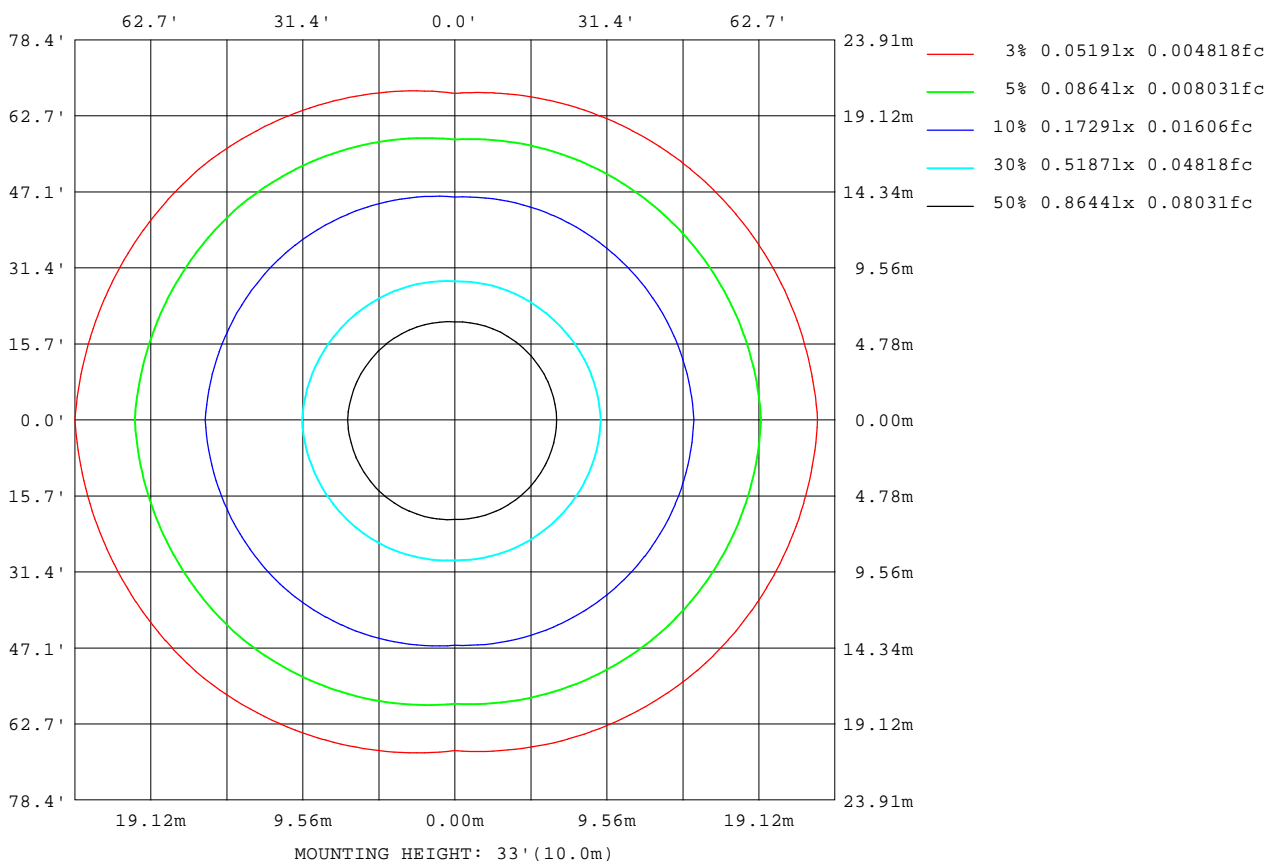
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	DIM.: 1000*7*11mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*7	Shielding Angle:

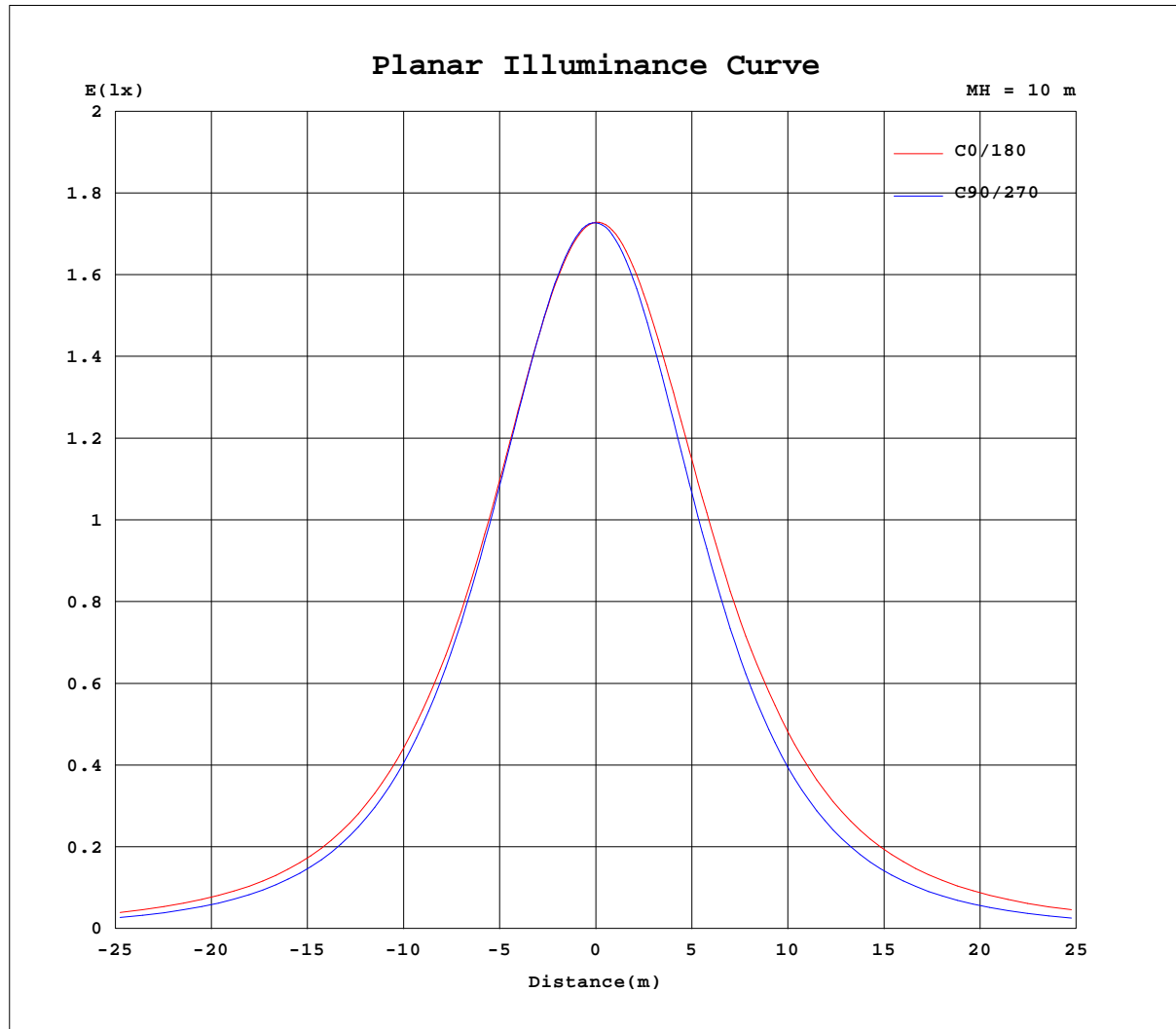
AvgL	cd/m2
L_0~180(65)av	30081
L_0~180(75)av	36595
L_0~180(85)av	76168
L_90~270(65)av	20419
L_90~270(75)av	17535
L_90~270(85)av	11702
L_45(65)av	25952
L_45(75)av	29147
L_45(85)av	52305

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:0.4063A P:9.750W PF:1.000 Freq:0Hz Lamp Flux:619.249x1 lm		
NAME: NNT0711	TYPE:01	WEIGHT:
SPEC.:NNT0711-9LW24CSN050CC0100	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	173	173	173	173	173	173	173	173										
5	172	172	172	173	173	173	172	171										
10	169	170	170	171	172	171	169	169										
15	166	166	166	168	170	167	165	165										
20	161	161	161	164	166	163	159	159										
25	155	155	154	158	162	157	152	153										
30	149	147	146	152	157	150	143	145										
35	141	139	136	144	150	142	134	136										
40	134	129	126	136	144	133	123	126										
45	125	119	115	126	136	124	112	116										
50	115	108	103	115	127	113	99.7	105										
55	105	97.5	89.6	105	117	103	86.8	94.6										
60	93.7	86.0	76.0	93.9	106	91.9	73.2	83.0										
65	82.9	74.0	61.8	81.9	95.0	80.0	59.0	71.2										
70	72.0	62.0	47.2	69.8	84.1	68.1	44.7	59.4										
75	60.5	50.1	32.8	57.5	72.1	56.0	30.7	47.7										
80	50.8	38.8	19.1	45.3	60.5	44.1	17.6	36.9										
85	42.6	30.1	7.61	34.9	50.3	34.0	6.66	28.6										
90	35.4	22.9	1.27	26.2	41.1	25.5	0.89	21.8										
95	29.4	16.8	0.85	19.2	33.1	18.7	0.71	15.0										
100	25.4	14.0	0.55	15.9	27.7	15.7	0.38	10.8										
105	22.8	13.7	0.62	14.7	25.7	14.6	0.59	12.2										
110	21.6	12.6	0.82	13.0	23.7	13.1	0.78	11.3										
115	19.8	10.1	1.04	10.3	20.6	10.9	0.96	9.88										
120	17.5	4.44	1.24	6.20	17.4	6.38	1.12	3.46										
125	14.6	1.86	1.39	2.40	14.9	2.24	1.27	1.56										
130	4.94	1.92	1.55	1.84	7.33	1.66	1.40	1.58										
135	2.83	1.96	1.68	1.84	2.89	1.65	1.50	1.63										
140	2.64	1.96	1.79	1.84	1.99	1.75	1.60	1.68										
145	2.52	1.99	1.90	1.95	1.94	1.88	1.70	1.72										
150	2.44	2.05	1.95	2.10	1.98	2.04	1.83	1.79										
155	2.44	2.08	2.12	2.25	2.09	2.19	2.04	1.89										
160	2.55	2.16	2.34	2.40	2.19	2.34	2.24	2.00										
165	2.62	2.29	2.54	2.52	2.34	2.44	2.45	2.19										
170	2.63	2.51	2.64	2.65	2.27	2.57	2.65	2.45										
175	2.48	2.76	2.82	2.83	2.28	2.75	2.83	2.75										
180	2.48	2.96	2.99	2.99	2.45	2.91	2.99	2.99										

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: