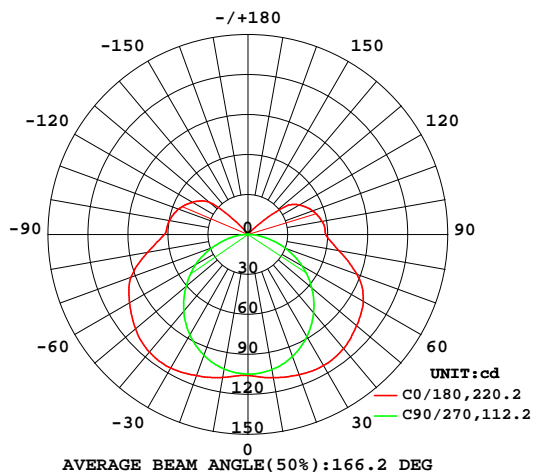


## LUMINAIRE PHOTOMETRIC TEST REPORT

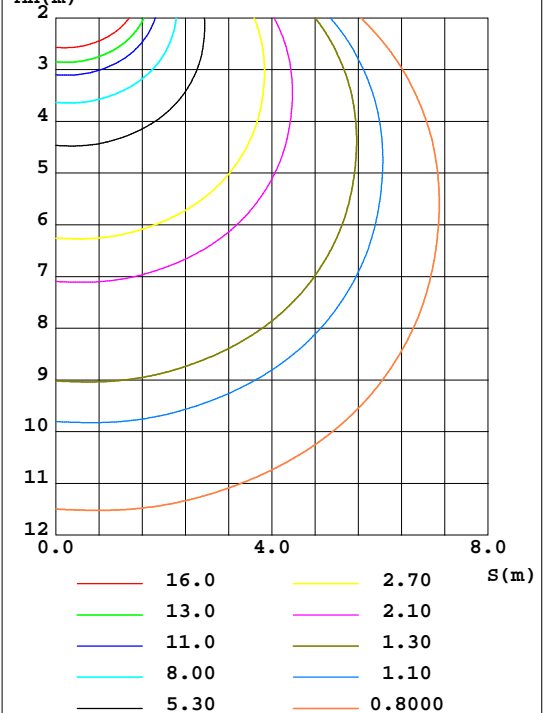
Test:U:24.00V I:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-9SW24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.88 lm/W			
MODEL	NMT1010	I <sub>max</sub> (cd)	116.1	S/MH(C0/180)	1.61
NOMINAL POWER(W)	9.6	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	579.36	h UP,DN(C0-180)	9.7,40.1
NOMINAL FLUX(lm)	579.36	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	10.1,40.1
LAMPS INSIDE	1	h up(%)	19.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	80.2	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2020-10-15

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:

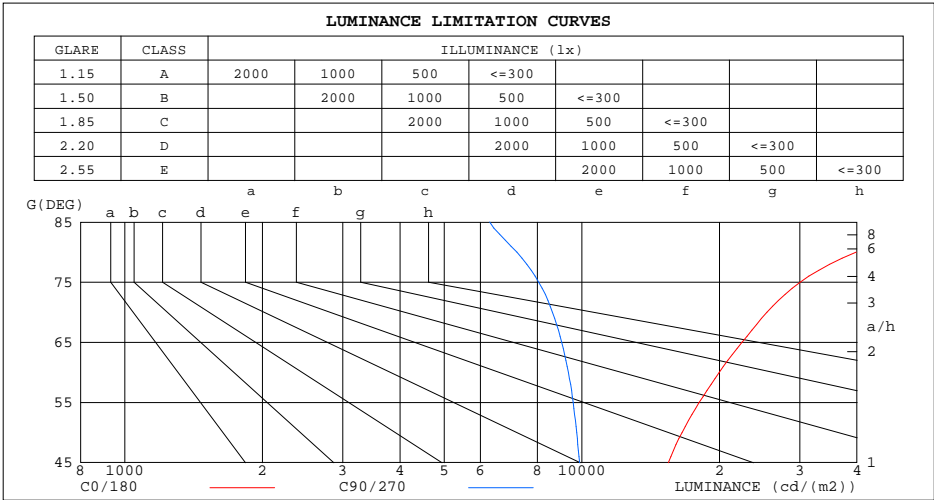
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	109.2	106.7	103.0	105.3	108.8	106.0	102.6	105.5	0- 10	10.08	10.08	1.74,1.74
20	112.0	106.1	97.54	105.2	112.7	105.9	96.55	104.2	10- 20	29.94	40.02	6.91,6.91
30	113.6	103.3	88.52	102.6	115.8	103.4	87.21	100.7	20- 30	47.93	87.95	15.2,15.2
40	111.7	98.19	76.65	98.10	115.2	98.85	75.01	94.92	30- 40	62.27	150.2	25.9,25.9
50	106.4	89.69	62.64	90.38	110.2	91.10	60.76	86.04	40- 50	71.04	221.3	38.2,38.2
60	99.91	79.16	46.72	79.60	102.6	80.12	45.53	74.91	50- 60	73.27	294.5	50.8,50.8
70	86.84	66.48	29.50	67.42	93.27	68.14	28.20	62.40	60- 70	69.11	363.7	62.8,62.8
80	69.24	50.06	12.53	52.44	76.35	53.20	12.00	46.52	70- 80	57.74	421.4	72.7,72.7
90	58.45	37.36	1.351	39.10	62.85	40.49	1.455	35.86	80- 90	43.26	464.7	80.2,80.2
100	56.62	35.43	0.4475	35.69	59.98	37.65	0.3479	28.76	90-100	36.21	500.9	86.5,86.5
110	51.83	31.84	0.5208	33.20	55.70	34.99	0.5486	27.47	100-110	32.70	533.6	92.1,92.1
120	44.62	16.76	0.7414	25.09	48.47	26.89	0.7486	13.14	110-120	26.03	559.6	96.6,96.6
130	23.62	1.723	0.9552	2.496	37.57	2.254	0.9087	1.450	120-130	13.64	573.2	98.9,98.9
140	3.123	1.562	1.075	1.596	4.835	1.383	1.042	1.376	130-140	3.820	577.1	99.6,99.6
150	1.944	1.416	1.215	1.550	1.676	1.456	1.176	1.343	140-150	1.005	578.1	99.8,99.8
160	1.743	1.423	1.409	1.617	1.576	1.576	1.443	1.356	150-160	0.6857	578.8	99.9,99.9
170	1.617	1.610	1.662	1.723	1.503	1.676	1.677	1.576	160-170	0.4440	579.2	100,100
180	1.496	1.817	1.817	1.823	1.490	1.803	1.870	1.817	170-180	0.1587	579.4	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:2020-10-15

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:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-9SW24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



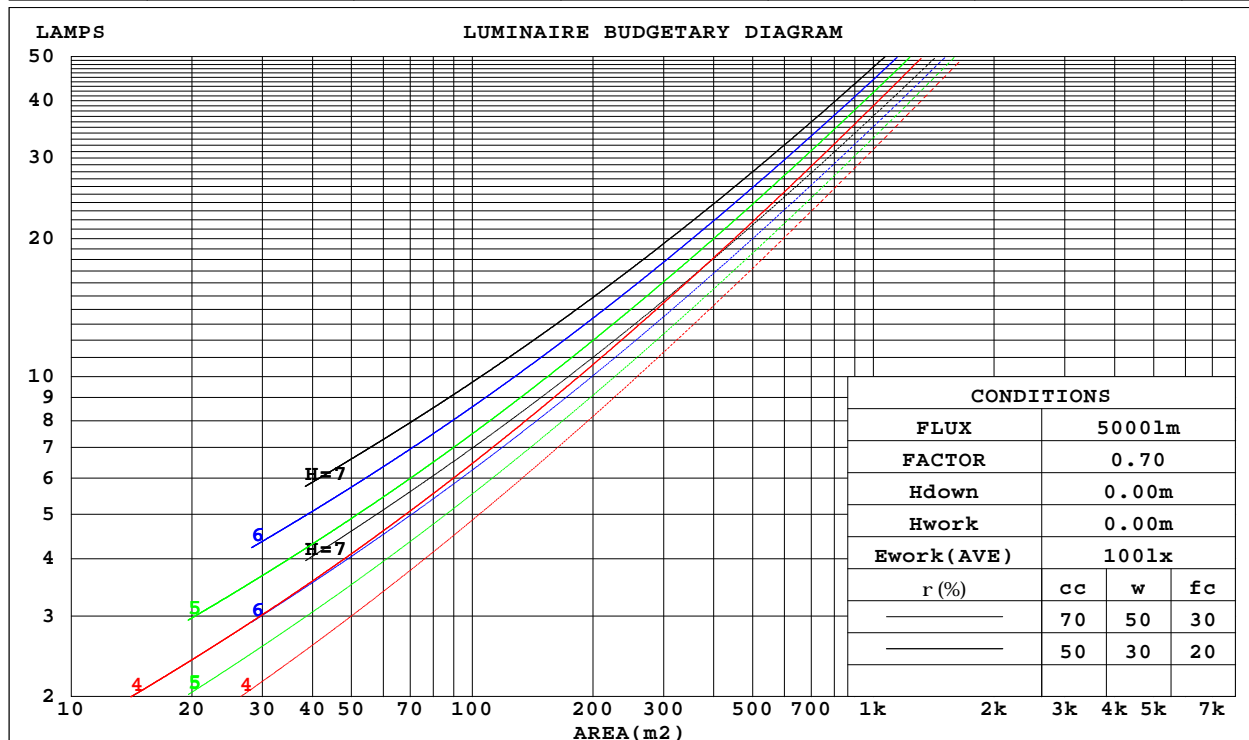
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-10-15

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:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-9SW24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	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:2020-10-15

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:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-9SW24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.391	.222	.070	.378	.215	.068	.353	.202	.065	.330	.190	.061	.309	.179	.058	
2.0	.338	.186	.057	.326	.180	.055	.304	.169	.052	.283	.159	.050	.264	.149	.047	
3.0	.300	.160	.048	.290	.155	.047	.269	.146	.044	.250	.137	.042	.233	.129	.040	
4.0	.270	.140	.041	.260	.136	.040	.242	.128	.038	.225	.121	.036	.209	.113	.035	
5.0	.245	.125	.036	.236	.121	.035	.219	.114	.034	.204	.108	.032	.189	.101	.030	
6.0	.224	.113	.032	.216	.109	.031	.201	.103	.030	.187	.097	.029	.173	.091	.027	
7.0	.207	.102	.029	.199	.099	.028	.185	.094	.027	.172	.088	.026	.160	.083	.024	
8.0	.192	.094	.026	.185	.091	.026	.172	.086	.025	.160	.081	.023	.148	.076	.022	
9.0	.178	.086	.024	.172	.084	.024	.160	.079	.022	.149	.075	.021	.138	.070	.020	
10.0	.167	.080	.022	.161	.078	.022	.150	.074	.021	.140	.069	.020	.130	.065	.019	

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	20%			20%			20%			20%			20%			0
R <sub>CR</sub>	R <sub>CR</sub> :Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.341	.341	.341	.292	.292	.292	.199	.199	.199	.114	.114	.114	.037	.037	.037	
1.0	.338	.308	.280	.289	.264	.241	.198	.182	.167	.114	.105	.097	.036	.034	.031	
2.0	.332	.285	.245	.284	.245	.212	.195	.170	.148	.112	.099	.087	.036	.032	.028	
3.0	.324	.268	.224	.278	.232	.194	.191	.161	.136	.110	.094	.080	.035	.031	.026	
4.0	.317	.256	.210	.272	.221	.182	.187	.154	.128	.108	.090	.076	.035	.029	.025	
5.0	.309	.246	.200	.265	.213	.174	.183	.149	.123	.106	.087	.073	.034	.029	.024	
6.0	.302	.238	.193	.259	.207	.168	.179	.145	.119	.104	.085	.071	.033	.028	.023	
7.0	.294	.232	.188	.253	.201	.164	.175	.141	.116	.102	.083	.069	.033	.027	.023	
8.0	.288	.226	.184	.248	.196	.161	.171	.138	.114	.100	.081	.068	.032	.027	.022	
9.0	.281	.222	.181	.242	.192	.158	.168	.135	.112	.098	.080	.067	.032	.026	.022	
10.0	.275	.217	.179	.237	.189	.156	.165	.133	.111	.096	.079	.066	.031	.026	.022	

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-10-15

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:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm										
NAME: NMT1010					TYPE:			WEIGHT:		
SPEC.:NMT1010-9SW24NSN000CC0100					DIM.: 1000*10*10mm			SERIAL No.:		
MFR.: COLORS					SUR.:1000*10mm			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	24.1	25.5	24.7	26.1	26.7	21.5	22.9	22.0	23.4	24.0
3H	26.9	28.2	27.5	28.7	29.4	23.1	24.4	23.7	24.9	25.6
4H	28.3	29.5	28.9	30.1	30.8	23.7	24.9	24.3	25.5	26.2
6H	29.8	31.0	30.4	31.6	32.3	24.2	25.3	24.8	25.9	26.6
8H	30.7	31.8	31.3	32.4	33.1	24.3	25.4	25.0	26.1	26.8
12H	31.7	32.7	32.3	33.3	34.1	24.4	25.5	25.0	26.1	26.8
4H 2H	24.7	25.9	25.3	26.5	27.2	22.9	24.1	23.5	24.7	25.3
3H	27.7	28.7	28.3	29.3	30.1	24.8	25.8	25.4	26.4	27.2
4H	29.2	30.2	29.9	30.9	31.6	25.6	26.6	26.3	27.2	28.0
6H	31.0	31.8	31.6	32.5	33.3	26.3	27.1	26.9	27.8	28.6
8H	31.9	32.7	32.6	33.4	34.2	26.5	27.3	27.2	28.0	28.8
12H	33.0	33.8	33.7	34.5	35.3	26.7	27.4	27.4	28.1	28.9
8H 4H	29.6	30.4	30.3	31.1	31.9	26.7	27.5	27.4	28.2	29.0
6H	31.6	32.2	32.3	33.0	33.8	27.8	28.5	28.5	29.2	30.0
8H	32.7	33.3	33.4	34.1	34.9	28.2	28.9	29.0	29.6	30.4
12H	34.1	34.6	34.8	35.4	36.2	28.6	29.1	29.3	29.9	30.8
12H 4H	29.6	30.3	30.3	31.0	31.9	27.0	27.8	27.7	28.5	29.3
6H	31.7	32.3	32.4	33.0	33.9	28.3	28.9	29.0	29.7	30.5
8H	32.9	33.5	33.7	34.2	35.1	29.0	29.5	29.7	30.2	31.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.5				

CIE Pub.117, 579.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.9)

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-10-15

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:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-9SW24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

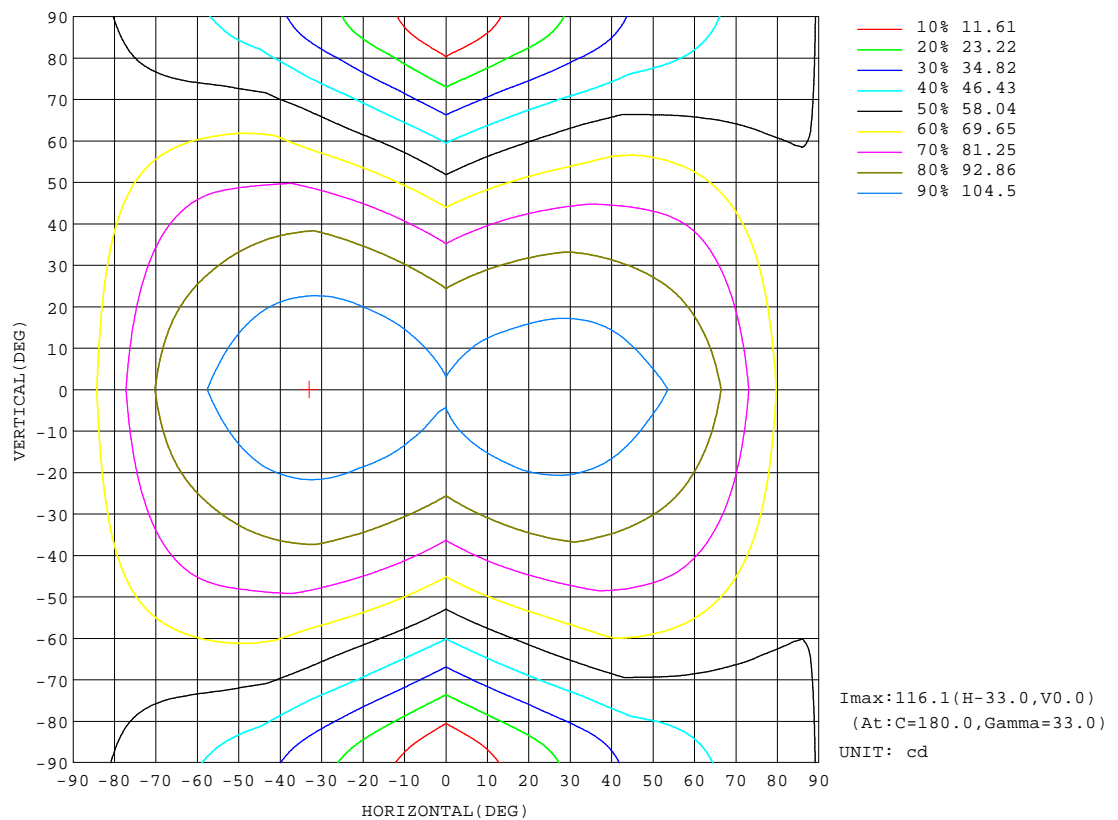
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	33	26	45	33	26	43	32	25	19
0.80	55	42	34	54	41	33	51	40	32	24
1.00	63	50	41	61	49	40	57	49	39	30
1.25	70	57	48	67	55	47	63	53	46	36
1.50	75	62	54	72	61	53	67	58	50	40
2.00	83	71	63	79	69	61	74	65	58	46
2.50	87	77	68	84	74	67	77	69	63	50
3.00	91	81	74	87	79	72	80	73	68	54
4.00	96	88	81	92	85	78	84	79	74	59
5.00	99	92	86	95	88	83	87	82	77	62
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:2020-10-15

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:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-9SW24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-10-15

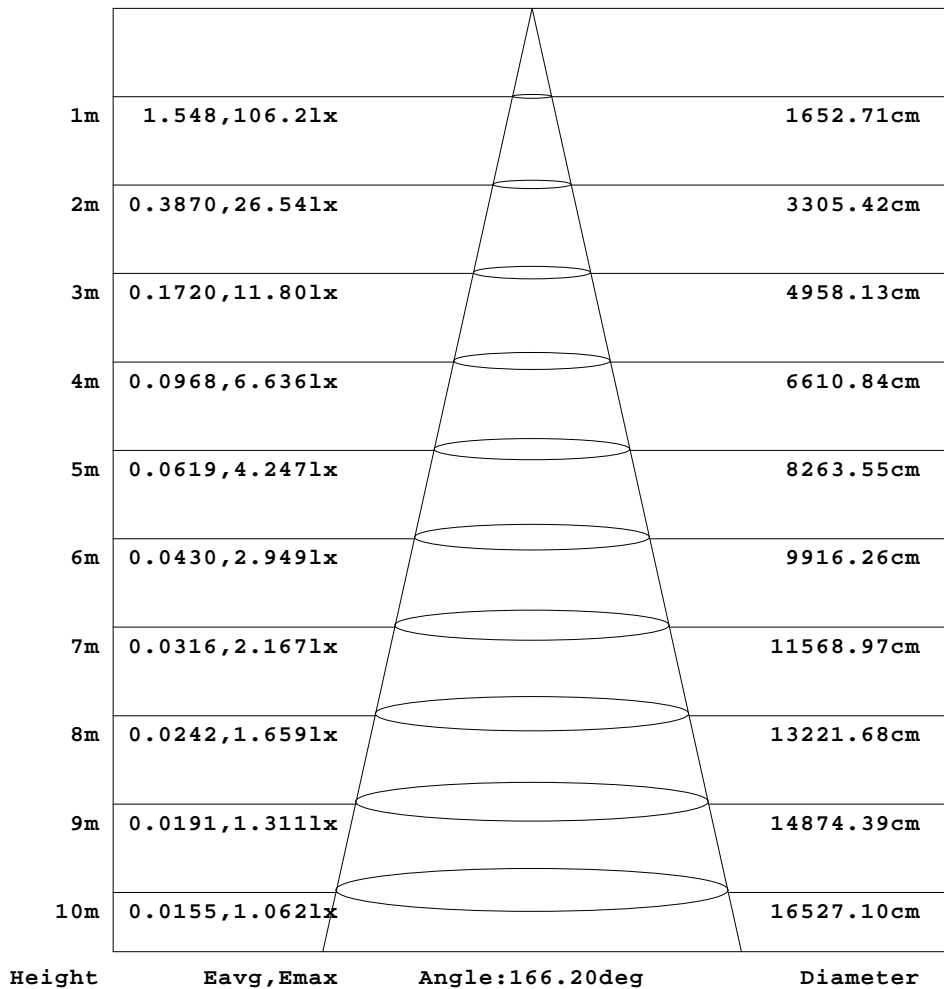
deg Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:24.00V I:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-9SW24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

Flux out:440.3 lm



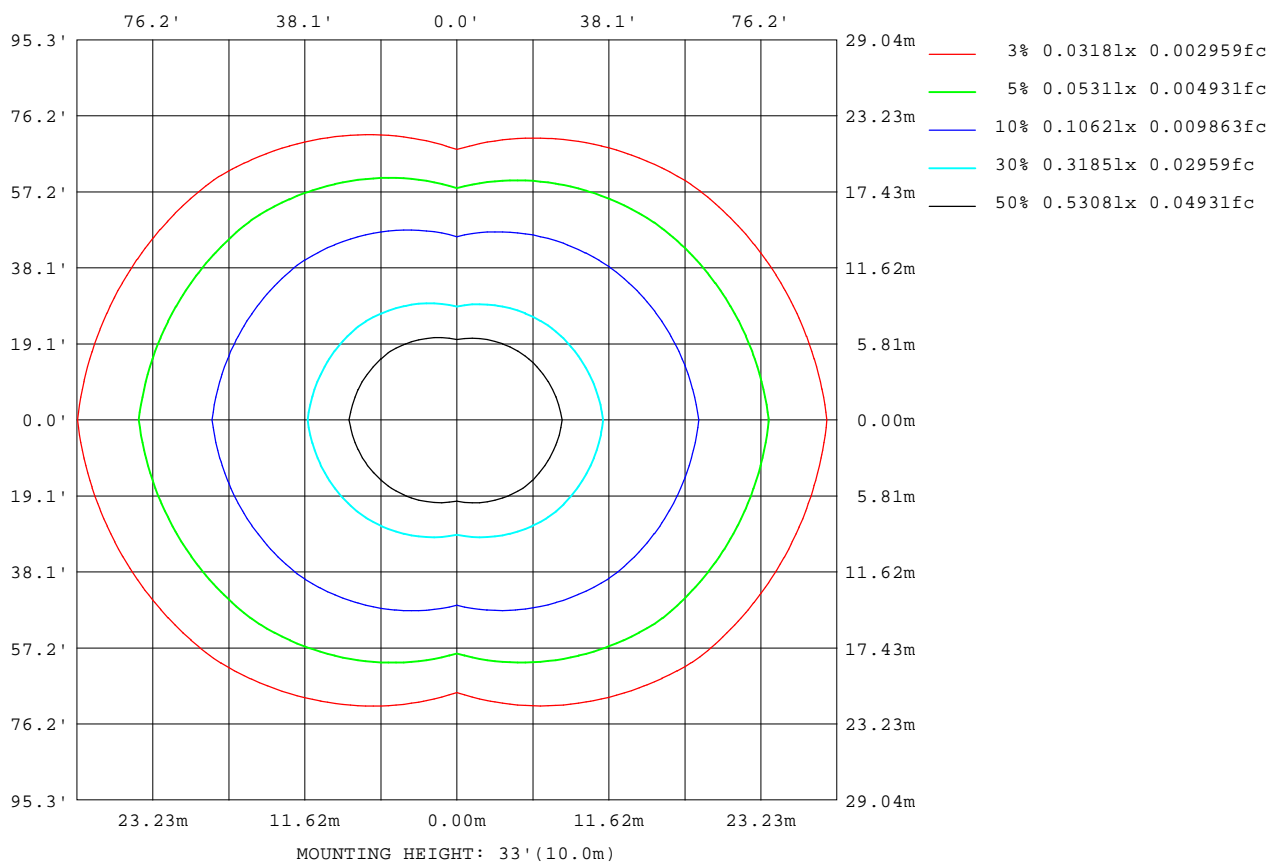
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2020-10-15

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

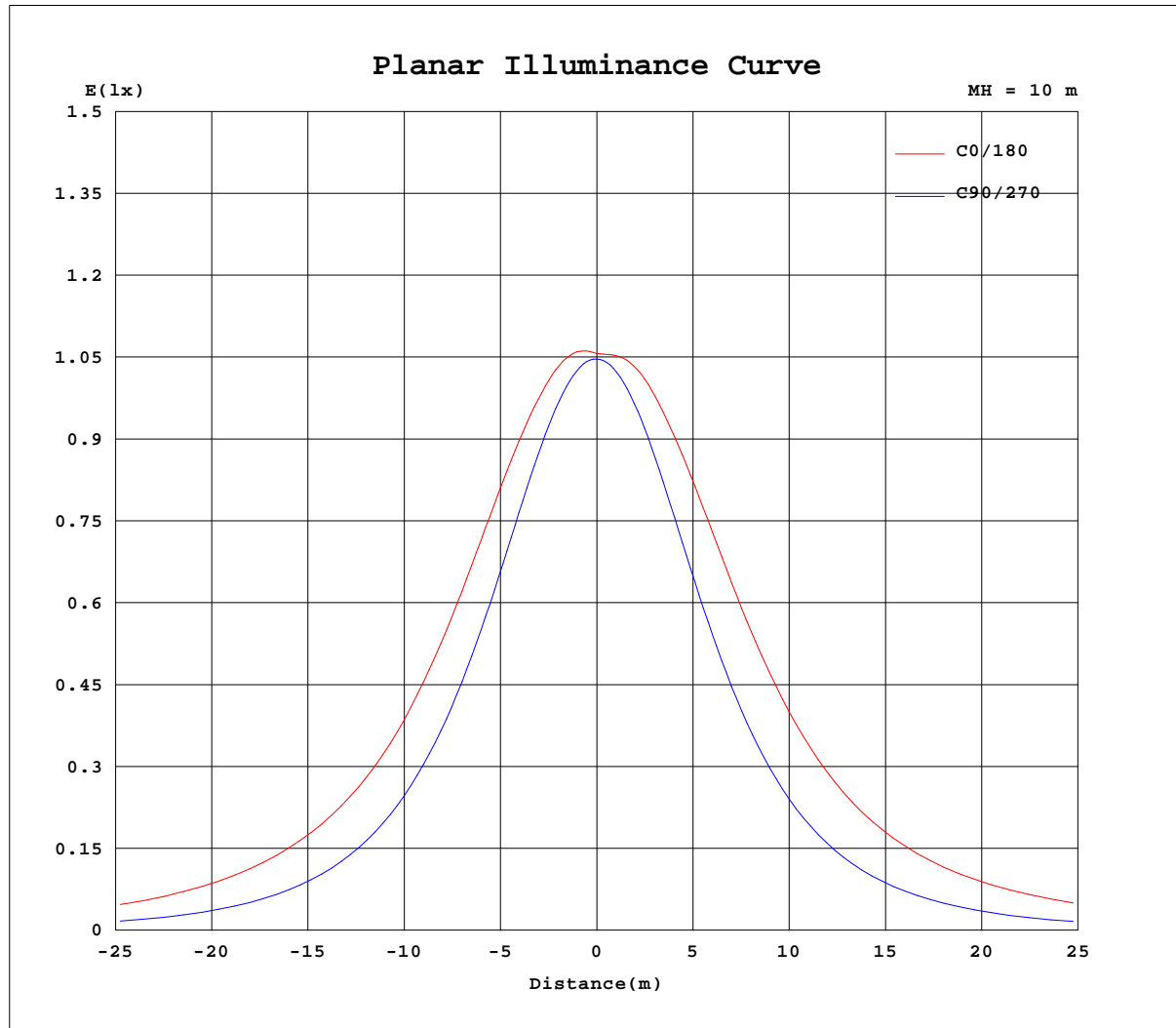
Test:U:24.00V I:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-9SW24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-10-15

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: 2020-10-15

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:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.4320A P:10.37W PF:1.000 Freq:0Hz Lamp Flux:579.36x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-9SW24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	106	105	105	105	106	105	105	105										
5	107	106	104	105	107	105	104	105										
10	109	107	103	105	109	106	103	106										
15	111	107	101	105	111	106	100	105										
20	112	106	97.5	105	113	106	96.5	104										
25	113	105	93.4	104	115	105	92.3	103										
30	114	103	88.5	103	116	103	87.2	101										
35	113	101	82.9	101	116	102	81.4	98.2										
40	112	98.2	76.6	98.1	115	98.9	75.0	94.9										
45	109	94.3	69.9	94.6	113	95.5	68.1	90.9										
50	106	89.7	62.6	90.4	110	91.1	60.8	86.0										
55	104	84.6	54.9	85.4	106	86.0	53.2	80.7										
60	99.9	79.2	46.7	79.6	103	80.1	45.5	74.9										
65	94.7	73.4	38.2	73.5	98.8	74.1	37.0	69.2										
70	86.8	66.5	29.5	67.4	93.3	68.1	28.2	62.4										
75	77.8	58.4	20.8	60.2	85.2	60.6	19.8	54.1										
80	69.2	50.1	12.5	52.4	76.3	53.2	12.0	46.5										
85	62.6	41.8	5.48	44.6	68.7	45.5	5.00	39.7										
90	58.4	37.4	1.35	39.1	62.9	40.5	1.46	35.9										
95	58.0	35.5	0.72	36.6	61.0	38.4	1.36	33.7										
100	56.6	35.4	0.45	35.7	60.0	37.7	0.35	28.8										
105	54.6	34.1	0.45	34.8	58.1	36.7	0.47	28.2										
110	51.8	31.8	0.52	33.2	55.7	35.0	0.55	27.5										
115	48.5	26.2	0.64	28.0	52.4	30.9	0.67	22.4										
120	44.6	16.8	0.74	25.1	48.5	26.9	0.75	13.1										
125	39.1	4.41	0.84	11.7	44.1	14.0	0.83	3.02										
130	23.6	1.72	0.96	2.50	37.6	2.25	0.91	1.45										
135	7.48	1.68	1.03	1.87	20.1	1.40	0.98	1.41										
140	3.12	1.56	1.08	1.60	4.83	1.38	1.04	1.38										
145	2.36	1.42	1.15	1.54	2.08	1.41	1.11	1.36										
150	1.94	1.42	1.22	1.55	1.68	1.46	1.18	1.34										
155	1.78	1.42	1.29	1.58	1.58	1.52	1.31	1.34										
160	1.74	1.42	1.41	1.62	1.58	1.58	1.44	1.36										
165	1.72	1.49	1.56	1.66	1.58	1.59	1.56	1.45										
170	1.62	1.61	1.66	1.72	1.50	1.68	1.68	1.58										
175	1.50	1.74	1.78	1.79	1.47	1.72	1.80	1.68										
180	1.50	1.82	1.82	1.82	1.49	1.80	1.87	1.82										

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-10-15

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: