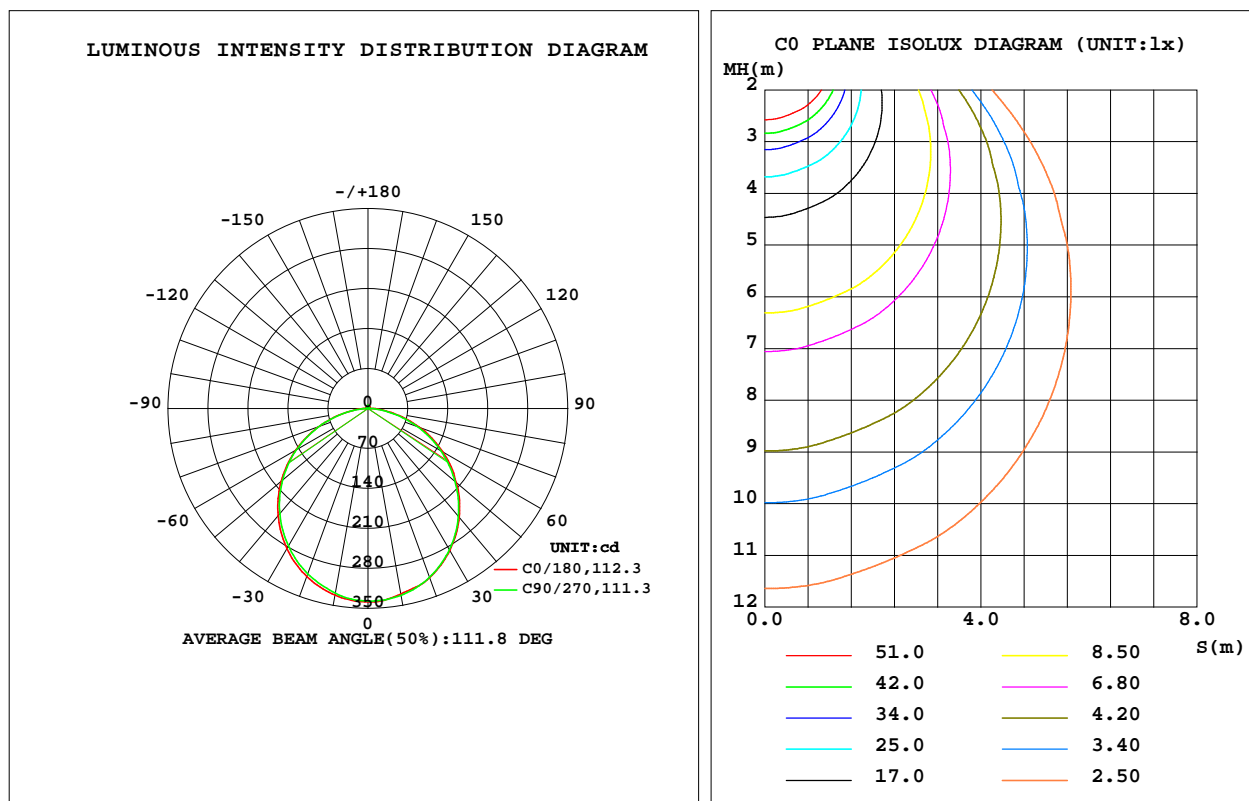


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9NW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.50 lm/W			
MODEL	NMT2015-NP	I _{max} (cd)	338.7	S/MH(C0/180)	1.26
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	986.49	h UP,DN(C0-180)	1.3,49.4
NOMINAL FLUX(lm)	986.492	CIE CLASS	DIRECT	h UP,DN(C180-360)	1.2,48.1
LAMPS INSIDE	1	h up(%)	2.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	97.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-15

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:

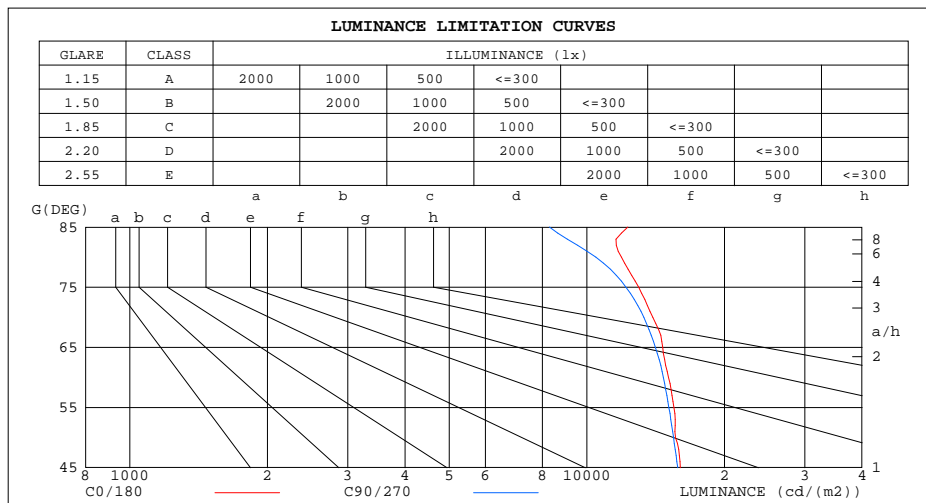
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	329.9	333.7	332.2	330.4	332.0	329.5	328.3	329.5	0- 10	31.90	31.90	3.23,3.23
20	315.4	313.9	314.6	312.6	313.2	308.1	308.1	309.1	10- 20	91.05	123.0	12.5,12.5
30	286.8	287.7	285.5	283.5	283.6	278.4	278.4	280.5	20- 30	137.6	260.6	26.4,26.4
40	248.6	250.7	246.5	245.1	244.9	240.6	240.4	243.5	30- 40	165.8	426.4	43.2,43.2
50	201.1	205.7	199.0	200.6	198.5	195.6	195.4	199.2	40- 50	172.1	598.4	60.7,60.7
60	150.9	153.3	147.0	148.2	146.3	143.9	144.3	148.3	50- 60	155.8	754.2	76.5,76.5
70	95.40	98.05	91.13	91.94	90.38	87.97	89.77	92.90	60- 70	118.9	873.2	88.5,88.5
80	41.38	42.50	36.37	37.51	37.19	34.44	35.15	39.05	70- 80	67.96	941.1	95.4,95.4
90	9.029	8.269	4.357	7.015	7.476	6.054	3.860	6.972	80- 90	20.72	961.9	97.5,97.5
100	4.008	4.702	1.775	4.561	3.935	4.362	2.346	3.948	90-100	5.024	966.9	98,98
110	4.161	3.679	1.669	4.268	3.967	4.135	1.577	4.141	100-110	3.691	970.6	98.4,98.4
120	4.281	4.569	2.557	4.048	3.928	3.445	2.272	4.141	110-120	3.585	974.2	98.7,98.7
130	4.388	3.608	3.199	3.367	3.961	3.105	2.806	3.066	120-130	3.167	977.3	99.1,99.1
140	4.595	3.914	3.699	3.782	4.035	4.012	3.174	3.734	130-140	2.806	980.1	99.4,99.4
150	4.855	4.095	4.045	4.282	4.182	4.248	3.676	3.661	140-150	2.503	982.6	99.6,99.6
160	5.183	4.335	4.615	4.783	4.522	4.694	4.550	3.800	150-160	1.996	984.6	99.8,99.8
170	5.265	5.044	5.343	5.251	4.696	5.189	5.338	4.789	160-170	1.363	986.0	99.9,99.9
180	4.949	5.871	5.985	5.871	5.016	5.858	5.971	5.871	170-180	0.5047	986.5	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:2021-04-15

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:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9NW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	12289	8285
80	11914	10473
75	12992	12186
70	13946	13323
65	14660	14136
60	15090	14700
55	15514	15122
50	15646	15476
45	16026	15812

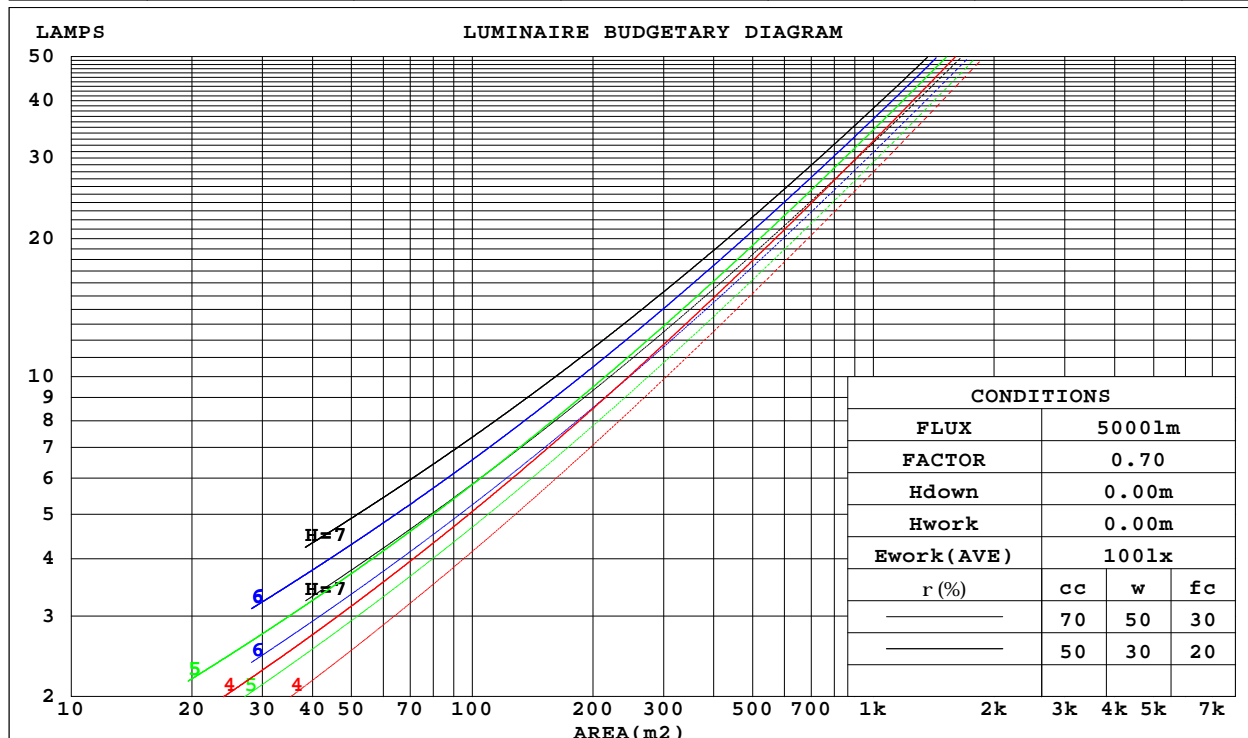
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-15

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:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9NW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	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:2021-04-15

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:

WEC AND CCEC

Test:U:24.00V I:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9NW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	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	.312	.177	.056	.304	.173	.055	.289	.166	.053	.276	.159	.051	.263	.153	.049	
2.0	.292	.160	.049	.285	.157	.048	.272	.151	.047	.260	.146	.046	.249	.141	.044	
3.0	.270	.144	.043	.264	.141	.043	.252	.137	.042	.241	.132	.041	.232	.128	.040	
4.0	.249	.129	.038	.243	.127	.038	.233	.124	.037	.224	.120	.036	.215	.117	.036	
5.0	.230	.117	.034	.225	.116	.034	.216	.112	.033	.207	.109	.033	.199	.107	.032	
6.0	.213	.107	.031	.209	.106	.030	.201	.103	.030	.193	.100	.029	.186	.098	.029	
7.0	.198	.098	.028	.194	.097	.028	.187	.095	.027	.180	.092	.027	.174	.090	.027	
8.0	.185	.091	.025	.182	.089	.025	.175	.087	.025	.169	.086	.025	.163	.084	.024	
9.0	.174	.084	.023	.170	.083	.023	.164	.081	.023	.159	.080	.023	.153	.078	.023	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.074	.021	.145	.073	.021	

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	.210	.210	.210	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.200	.175	.153	.171	.150	.132	.117	.104	.091	.067	.060	.053	.022	.019	.017	
2.0	.192	.151	.117	.164	.130	.101	.112	.090	.071	.065	.052	.041	.021	.017	.014	
3.0	.184	.134	.094	.158	.115	.081	.108	.080	.057	.063	.047	.034	.020	.015	.011	
4.0	.176	.120	.078	.151	.104	.068	.104	.073	.048	.060	.042	.028	.019	.014	.009	
5.0	.169	.110	.067	.145	.095	.058	.100	.067	.041	.058	.039	.024	.019	.013	.008	
6.0	.162	.102	.059	.139	.088	.051	.096	.062	.036	.056	.036	.022	.018	.012	.007	
7.0	.155	.095	.053	.133	.082	.046	.092	.058	.033	.053	.034	.019	.017	.011	.006	
8.0	.148	.089	.048	.128	.077	.042	.088	.054	.030	.051	.032	.018	.017	.011	.006	
9.0	.142	.084	.045	.123	.073	.039	.085	.051	.028	.050	.030	.017	.016	.010	.006	
10.0	.137	.080	.042	.118	.069	.037	.082	.049	.026	.048	.029	.016	.015	.009	.005	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-15

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:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm											
NAME: NMT2015-NP					TYPE:			WEIGHT:			
SPEC.:NMT2015-9NW24CSS050CC0100-NP					DIM.: 1000*20*15mm			SERIAL No.:			
MFR.: COLORS					SUR.:1000*20mm			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	2H	22.4	23.9	22.7	24.1	24.4	22.3	23.8	22.6	24.1	24.3
	3H	24.0	25.3	24.3	25.6	25.9	23.8	25.2	24.2	25.5	25.8
	4H	24.6	25.9	24.9	26.2	26.5	24.4	25.7	24.8	26.0	26.3
	6H	25.0	26.3	25.4	26.6	26.9	24.8	26.0	25.2	26.3	26.7
	8H	25.2	26.4	25.6	26.7	27.0	24.9	26.1	25.3	26.4	26.8
	12H	25.3	26.4	25.7	26.8	27.1	25.0	26.1	25.3	26.4	26.8
4H	2H	23.0	24.3	23.4	24.6	25.0	23.0	24.3	23.3	24.6	24.9
	3H	24.8	25.9	25.2	26.3	26.6	24.7	25.8	25.1	26.1	26.5
	4H	25.5	26.6	25.9	26.9	27.3	25.4	26.4	25.8	26.8	27.2
	6H	26.1	27.0	26.5	27.4	27.8	25.9	26.8	26.3	27.2	27.6
	8H	26.3	27.2	26.8	27.6	28.0	26.0	26.9	26.5	27.3	27.8
	12H	26.5	27.3	27.0	27.7	28.2	26.1	26.9	26.6	27.4	27.8
8H	4H	25.8	26.7	26.3	27.1	27.5	25.7	26.5	26.1	26.9	27.4
	6H	26.5	27.3	27.0	27.7	28.2	26.3	27.1	26.8	27.5	28.0
	8H	26.8	27.5	27.3	27.9	28.4	26.6	27.2	27.1	27.7	28.2
	12H	27.1	27.7	27.6	28.1	28.7	26.7	27.3	27.3	27.8	28.3
12H	4H	25.8	26.6	26.3	27.0	27.5	25.7	26.5	26.1	26.9	27.4
	6H	26.6	27.2	27.1	27.7	28.2	26.4	27.0	26.9	27.5	28.0
	8H	26.9	27.5	27.5	28.0	28.5	26.7	27.2	27.2	27.7	28.3
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2				+ 0.2 / - 0.2					
1.5H		+ 0.2 / - 0.3				+ 0.2 / - 0.3					
2.0H		+ 0.2 / - 0.3				+ 0.2 / - 0.3					

CIE Pub.117, 986.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.0)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-15

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:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9NW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:

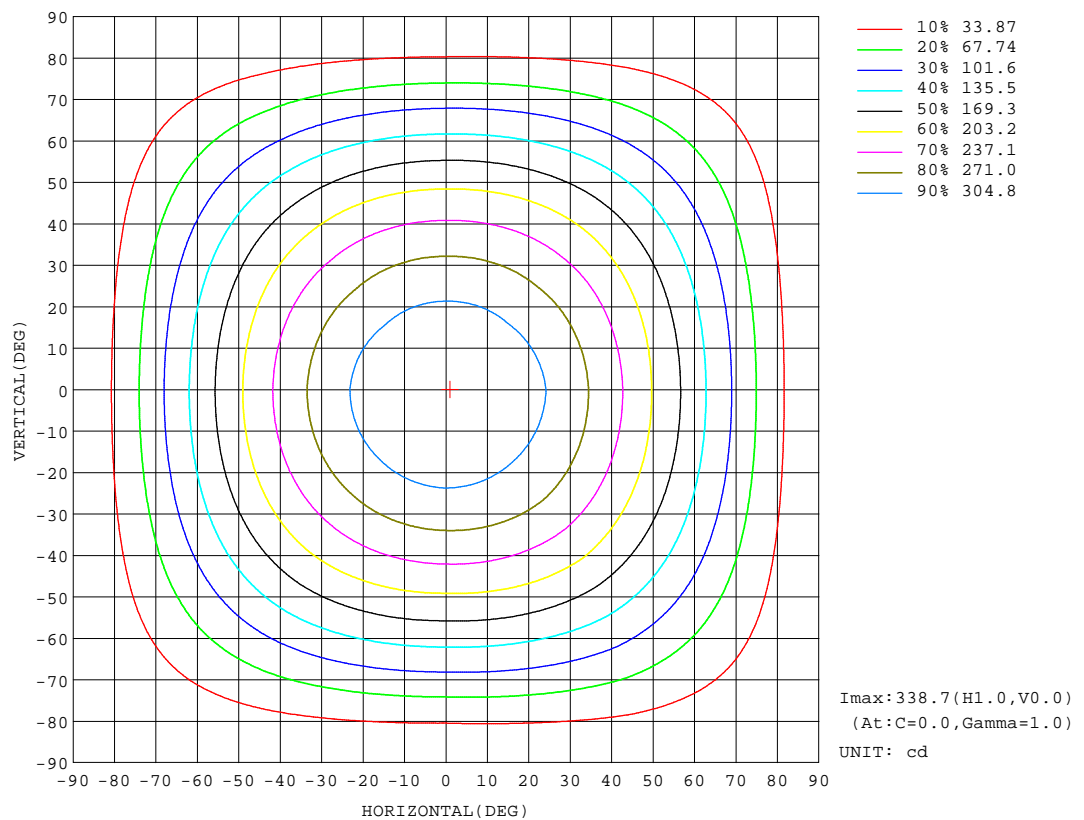
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	65	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	80	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	81	76	68
2.50	98	90	84	96	88	83	92	86	81	72
3.00	101	94	89	99	93	87	95	89	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	100	97	94	84
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:2021-04-15

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:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9NW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:



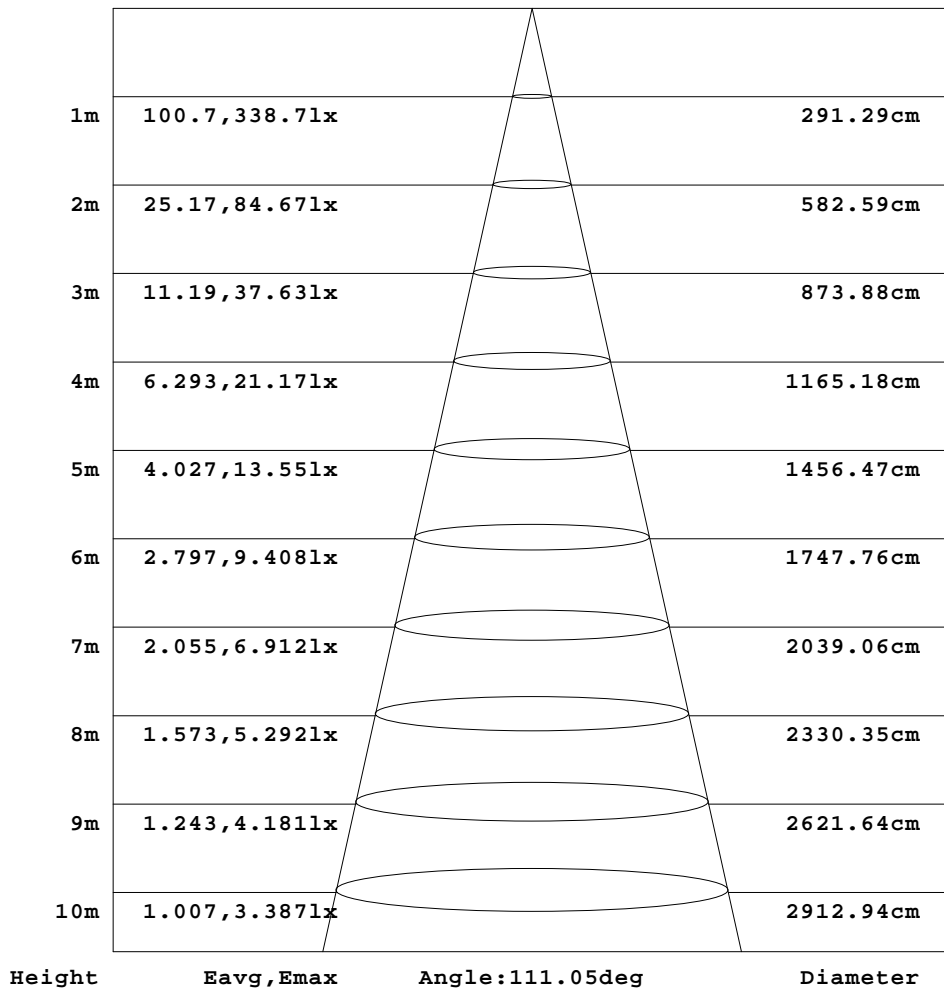
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-15

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:

AAI Figure

Test:U:24.00V I:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9NW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:

Flux out:695.3 lm



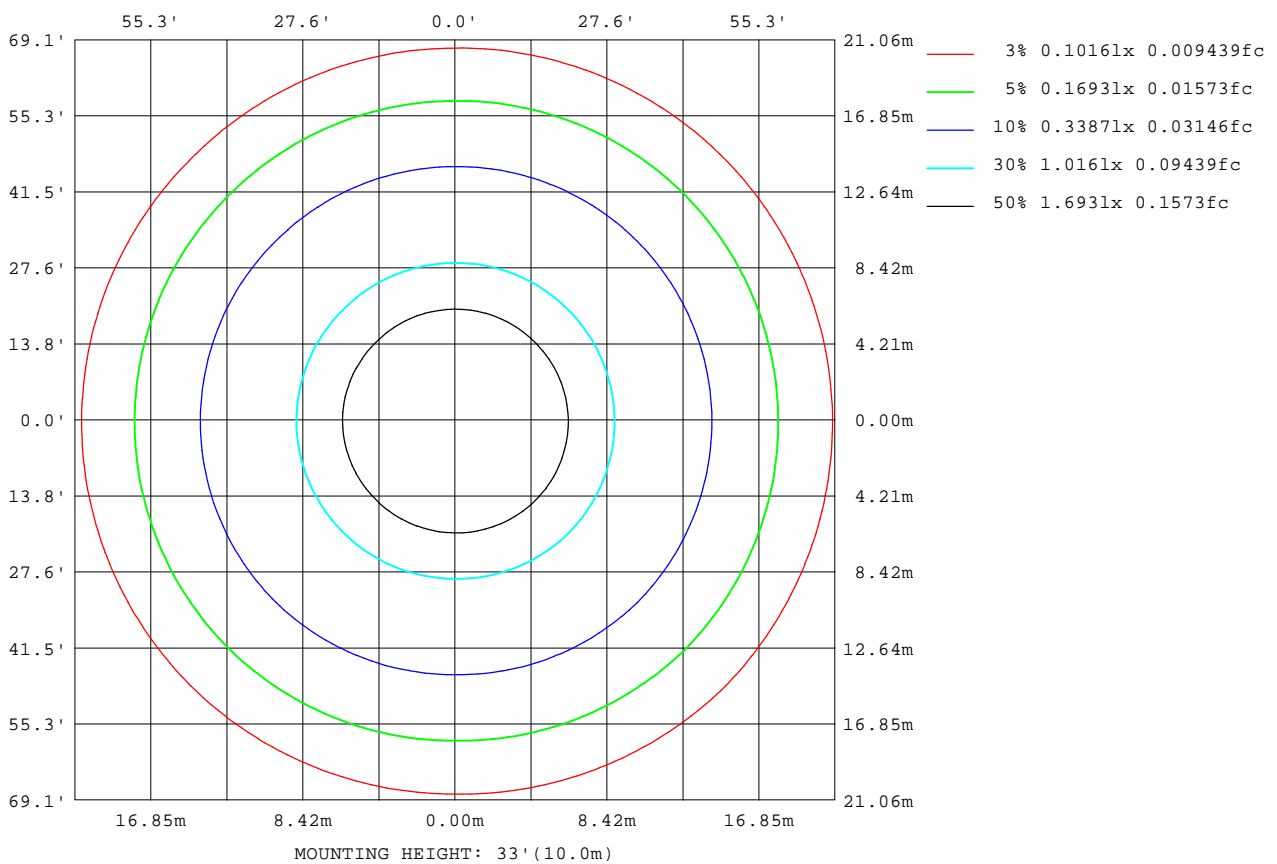
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-15

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

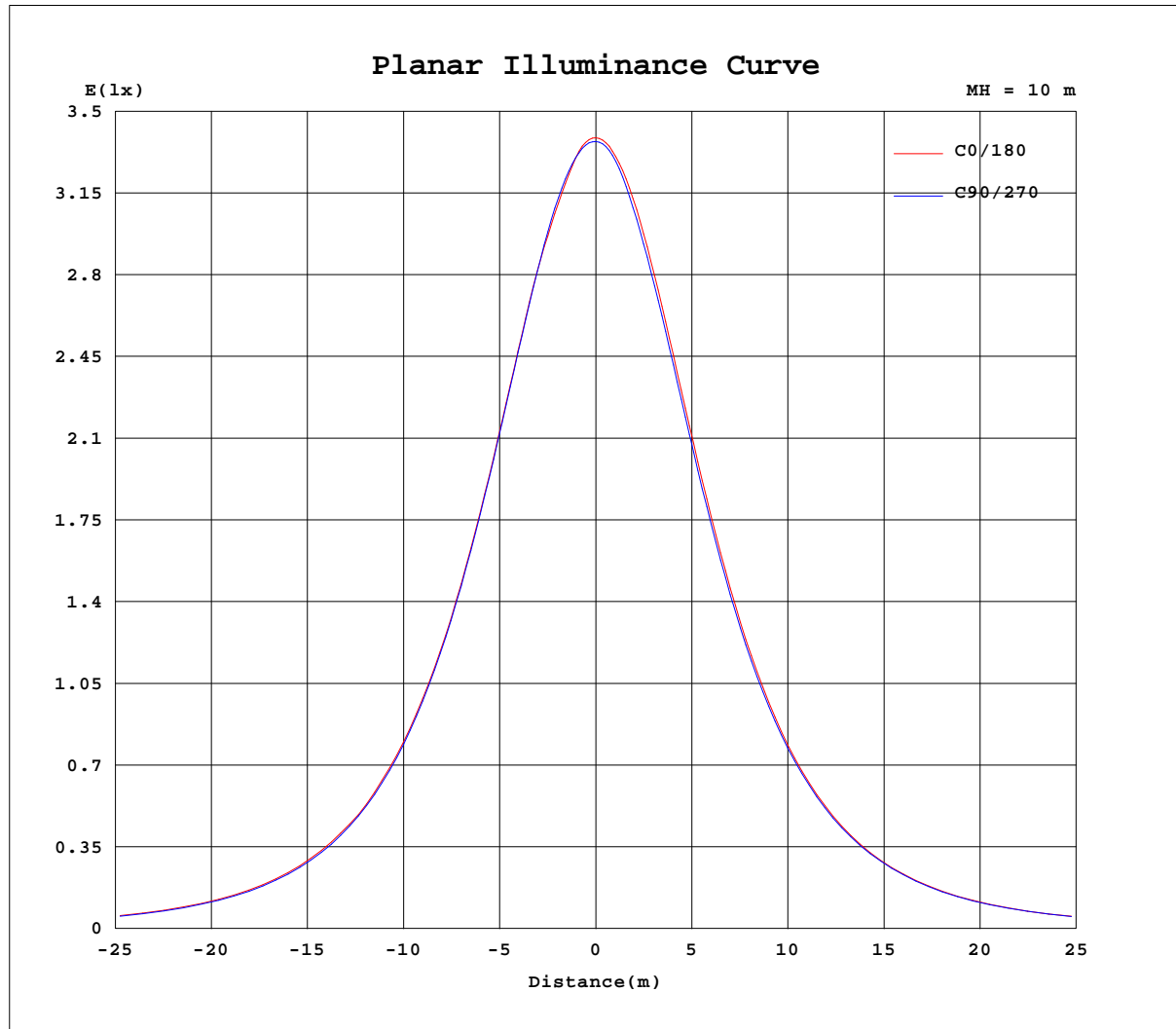
Test:U:24.00V I:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9NW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JYH
 Test Date: 2021-04-15

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: 2021-04-15

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:0.6276A P:15.06W PF:1.000 Freq:0Hz Lamp Flux:986.492x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9NW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	339	338	337	336	339	338	337	336										
5	337	337	336	335	337	336	335	335										
10	330	334	332	330	332	330	328	329										
15	324	326	325	323	324	320	319	321										
20	315	314	315	313	313	308	308	309										
25	302	301	301	299	300	294	294	296										
30	287	288	286	283	284	278	278	280										
35	269	271	267	265	265	260	260	263										
40	249	251	246	245	245	241	240	243										
45	227	229	224	223	223	219	219	222										
50	201	206	199	201	199	196	195	199										
55	178	180	173	175	173	170	171	175										
60	151	153	147	148	146	144	144	148										
65	124	126	119	120	119	116	117	121										
70	95.4	98.0	91.1	91.9	90.4	88.0	89.8	92.9										
75	67.3	69.7	63.1	63.6	62.5	60.1	61.9	65.2										
80	41.4	42.5	36.4	37.5	37.2	34.4	35.2	39.1										
85	21.4	20.6	14.4	17.2	18.1	15.1	13.7	18.2										
90	9.03	8.27	4.36	7.01	7.48	6.05	3.86	6.97										
95	4.40	4.94	3.64	4.77	4.00	4.44	3.67	4.37										
100	4.01	4.70	1.78	4.56	3.93	4.36	2.35	3.95										
105	4.06	4.30	1.21	4.41	3.96	4.23	1.53	4.15										
110	4.16	3.68	1.67	4.27	3.97	4.13	1.58	4.14										
115	4.17	4.58	2.12	4.14	3.93	4.09	1.94	4.14										
120	4.28	4.57	2.56	4.05	3.93	3.45	2.27	4.14										
125	4.29	4.49	2.86	3.84	3.93	2.97	2.57	3.29										
130	4.39	3.61	3.20	3.37	3.96	3.11	2.81	3.07										
135	4.50	3.77	3.49	3.56	3.98	3.32	3.02	3.18										
140	4.59	3.91	3.70	3.78	4.03	4.01	3.17	3.73										
145	4.74	3.99	3.84	4.00	4.10	4.09	3.39	3.71										
150	4.85	4.09	4.05	4.28	4.18	4.25	3.68	3.66										
155	5.01	4.19	4.25	4.53	4.31	4.45	4.12	3.65										
160	5.18	4.34	4.61	4.78	4.52	4.69	4.55	3.80										
165	5.41	4.62	4.99	4.97	4.70	4.91	4.94	4.24										
170	5.26	5.04	5.34	5.25	4.70	5.19	5.34	4.79										
175	4.93	5.48	5.76	5.58	4.69	5.47	5.71	5.42										
180	4.95	5.87	5.98	5.87	5.02	5.86	5.97	5.87										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-15

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: