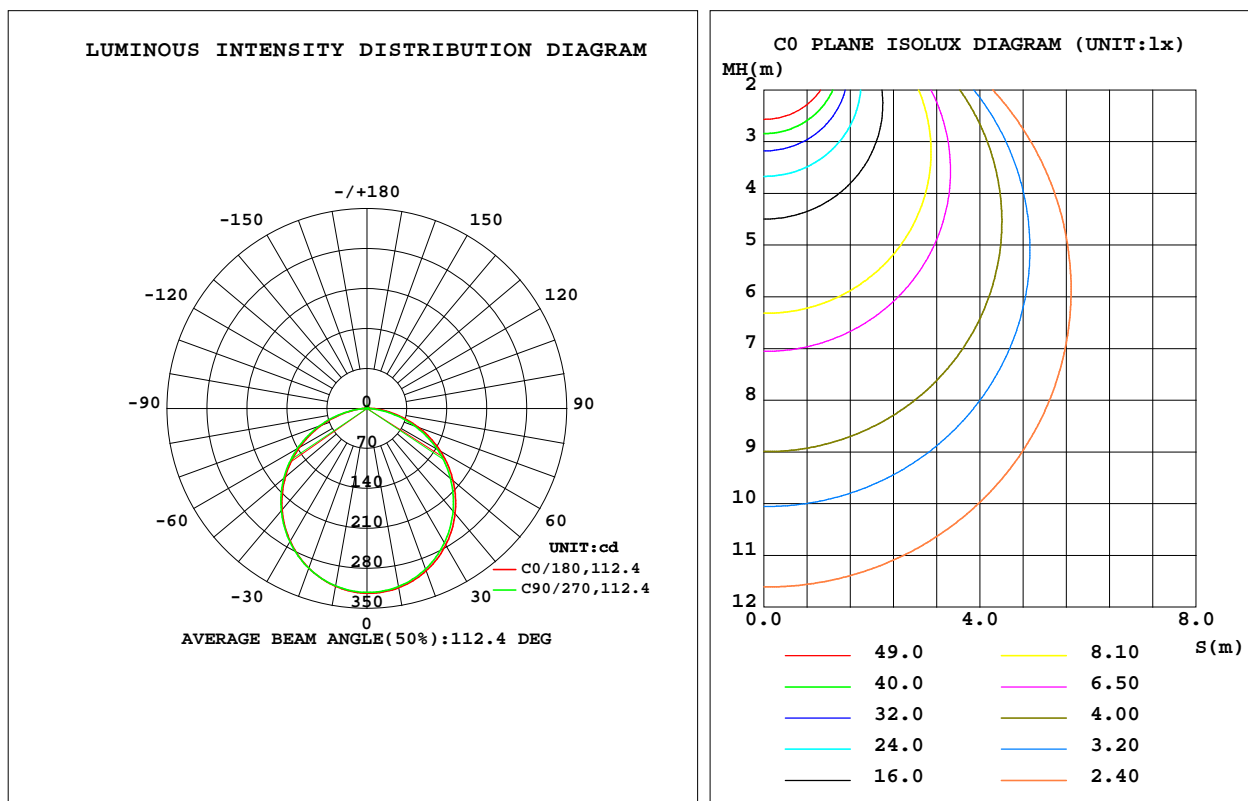


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.11x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9WW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.05 lm/W			
MODEL	NMT2015-NP	I _{max} (cd)	323.5	S/MH(C0/180)	1.27
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	948.11	h UP,DN(C0-180)	1.3,49.3
NOMINAL FLUX(lm)	948.11	CIE CLASS	DIRECT	h UP,DN(C180-360)	1.2,48.2
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

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:

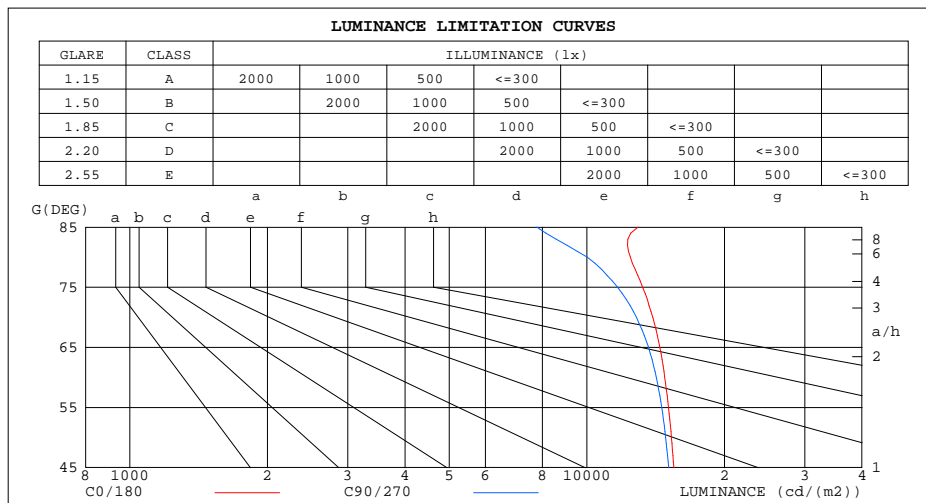
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	318.8	318.7	316.6	315.5	316.2	315.1	315.6	316.7	0- 10	30.51	30.51	3.22,3.22
20	302.7	302.9	299.4	297.5	297.6	296.4	297.8	300.0	10- 20	87.29	117.8	12.4,12.4
30	276.0	276.6	271.4	269.1	268.7	268.0	269.8	273.4	20- 30	132.1	249.9	26.4,26.4
40	240.1	240.9	234.7	232.2	231.3	231.5	233.5	238.4	30- 40	159.2	409.1	43.1,43.1
50	196.9	196.4	191.2	189.3	186.6	187.1	190.4	195.8	40- 50	165.3	574.4	60.6,60.6
60	148.1	149.6	141.9	139.3	136.5	136.9	141.0	146.8	50- 60	149.9	724.3	76.4,76.4
70	95.42	95.58	87.88	85.18	82.96	82.88	87.88	93.69	60- 70	114.7	838.9	88.5,88.5
80	43.26	42.61	34.80	33.36	32.82	31.53	35.77	41.22	70- 80	65.75	904.7	95.4,95.4
90	9.637	8.188	3.942	6.049	6.181	5.455	4.087	7.777	80- 90	20.14	924.8	97.5,97.5
100	3.754	4.481	1.516	4.174	3.500	4.295	1.787	4.188	90-100	4.804	929.6	98.1,98.1
110	3.913	3.407	1.580	3.961	3.574	4.095	1.452	4.128	100-110	3.507	933.1	98.4,98.4
120	4.034	4.482	2.430	3.920	3.574	3.134	2.104	2.949	110-120	3.390	936.5	98.8,98.8
130	4.155	3.440	3.058	3.146	3.607	2.865	2.653	2.819	120-130	2.914	939.5	99.1,99.1
140	4.375	3.707	3.527	3.580	3.748	3.780	3.039	3.399	130-140	2.630	942.1	99.4,99.4
150	4.589	3.874	3.827	4.083	3.888	4.108	3.521	3.293	140-150	2.363	944.4	99.6,99.6
160	4.988	4.128	4.454	4.583	4.249	4.480	4.297	3.472	150-160	1.892	946.3	99.8,99.8
170	4.997	4.810	5.096	4.983	4.482	4.916	5.051	4.481	160-170	1.295	947.6	99.9,99.9
180	4.696	5.551	5.651	5.557	4.702	5.544	5.664	5.551	170-180	0.4789	948.1	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:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.11x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9WW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	12946	7762
80	12456	10020
75	13248	11683
70	13949	12847
65	14441	13645
60	14810	14190
55	15094	14587
50	15318	14872
45	15512	15111

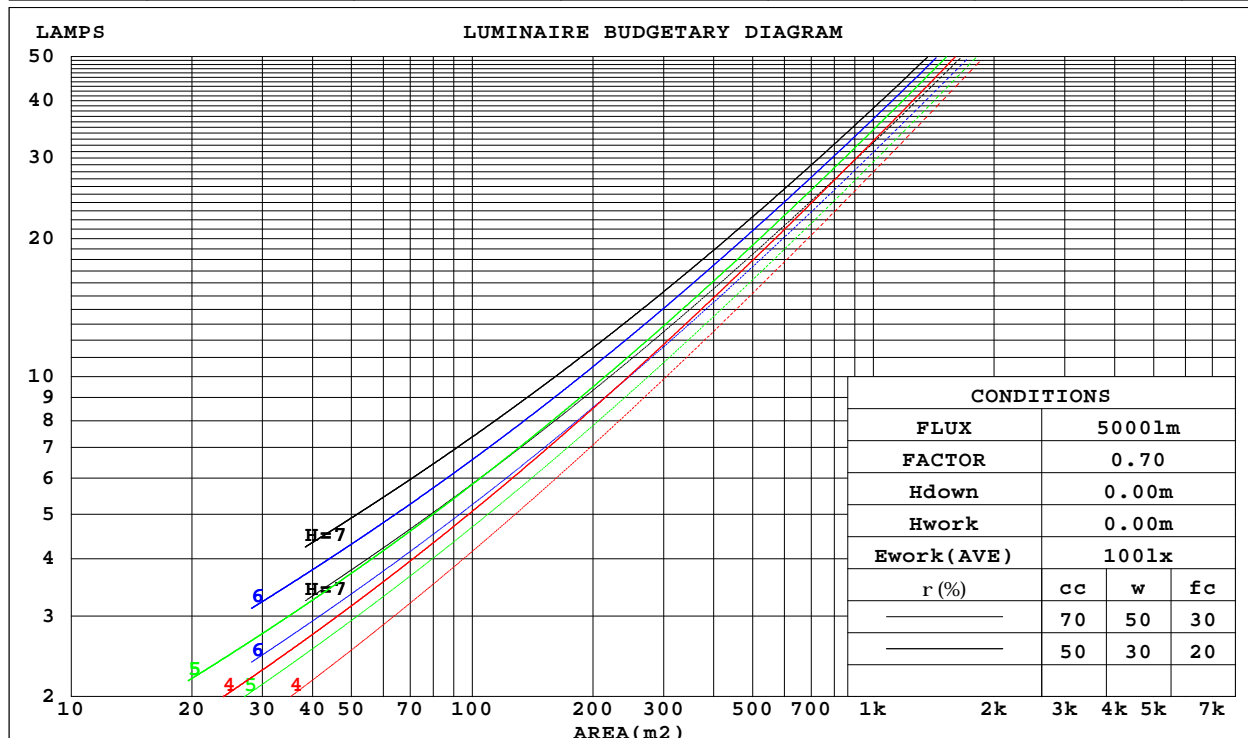
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-15

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:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.11x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9WW24CSS050CC0100-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:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.11x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9WW24CSS050CC0100-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	.178	.056	.304	.174	.055	.290	.166	.053	.276	.159	.051	.264	.153	.049															
2.0	.293	.160	.049	.286	.157	.048	.273	.152	.047	.261	.146	.046	.250	.141	.045															
3.0	.270	.144	.043	.264	.141	.043	.253	.137	.042	.242	.133	.041	.232	.128	.040															
4.0	.249	.130	.038	.244	.128	.038	.233	.124	.037	.224	.120	.036	.215	.117	.036															
5.0	.230	.117	.034	.225	.116	.034	.216	.113	.033	.208	.110	.033	.200	.107	.032															
6.0	.213	.107	.031	.209	.106	.030	.201	.103	.030	.193	.100	.030	.186	.098	.029															
7.0	.199	.098	.028	.195	.097	.028	.187	.095	.027	.180	.092	.027	.174	.090	.027															
8.0	.185	.091	.025	.182	.090	.025	.175	.088	.025	.169	.086	.025	.163	.084	.024															
9.0	.174	.084	.023	.171	.083	.023	.165	.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	.209	.209	.209	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.199	.175	.153	.171	.150	.132	.117	.103	.091	.067	.060	.053	.022	.019	.017	
2.0	.191	.151	.117	.164	.130	.101	.112	.090	.070	.065	.052	.041	.021	.017	.013	
3.0	.184	.133	.093	.157	.115	.081	.108	.080	.057	.062	.047	.033	.020	.015	.011	
4.0	.176	.120	.077	.151	.104	.067	.104	.072	.047	.060	.042	.028	.019	.014	.009	
5.0	.169	.110	.066	.145	.095	.058	.100	.066	.041	.058	.039	.024	.019	.013	.008	
6.0	.161	.101	.058	.139	.088	.051	.096	.062	.036	.056	.036	.021	.018	.012	.007	
7.0	.155	.095	.053	.133	.082	.046	.092	.058	.032	.053	.034	.019	.017	.011	.006	
8.0	.148	.089	.048	.128	.077	.042	.088	.054	.030	.051	.032	.018	.017	.010	.006	
9.0	.142	.084	.045	.122	.073	.039	.085	.051	.028	.049	.030	.016	.016	.010	.005	
10.0	.136	.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:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.1lx1 lm											
NAME: NMT2015-NP						TYPE:		WEIGHT:			
SPEC.:NMT2015-9WW24CSS050CC0100-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	22.5	24.0	22.8	24.2	24.5	22.3	23.8	22.6	24.1	24.3	
	3H	24.1	25.5	24.4	25.8	26.0	23.9	25.2	24.2	25.5	25.8
	4H	24.8	26.1	25.1	26.4	26.7	24.4	25.7	24.8	26.0	26.4
	6H	25.3	26.5	25.6	26.8	27.1	24.8	26.1	25.2	26.4	26.7
	8H	25.4	26.6	25.8	27.0	27.3	24.9	26.1	25.3	26.4	26.8
	12H	25.6	26.7	26.0	27.1	27.4	25.0	26.1	25.4	26.5	26.8
4H	2H	23.1	24.4	23.5	24.7	25.0	23.0	24.3	23.4	24.6	24.9
	3H	24.9	26.1	25.3	26.4	26.8	24.7	25.9	25.1	26.2	26.6
	4H	25.7	26.7	26.1	27.1	27.5	25.4	26.5	25.8	26.8	27.2
	6H	26.3	27.3	26.8	27.7	28.1	25.9	26.9	26.4	27.3	27.7
	8H	26.6	27.4	27.0	27.8	28.3	26.1	26.9	26.5	27.4	27.8
	12H	26.8	27.6	27.2	28.0	28.4	26.2	27.0	26.6	27.4	27.8
8H	4H	26.0	26.8	26.4	27.3	27.7	25.7	26.6	26.2	27.0	27.4
	6H	26.8	27.5	27.3	27.9	28.4	26.4	27.1	26.9	27.6	28.0
	8H	27.1	27.7	27.6	28.2	28.7	26.6	27.3	27.1	27.7	28.2
	12H	27.4	27.9	27.9	28.4	29.0	26.8	27.3	27.3	27.8	28.4
12H	4H	26.0	26.8	26.5	27.2	27.7	25.8	26.5	26.2	27.0	27.4
	6H	26.8	27.5	27.3	27.9	28.4	26.5	27.1	27.0	27.6	28.1
	8H	27.2	27.8	27.7	28.2	28.8	26.8	27.3	27.3	27.8	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	+ 0.1 / - 0.3					+ 0.2 / - 0.4					

CIE Pub.117, 948.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.2)

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:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.11x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9WW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:

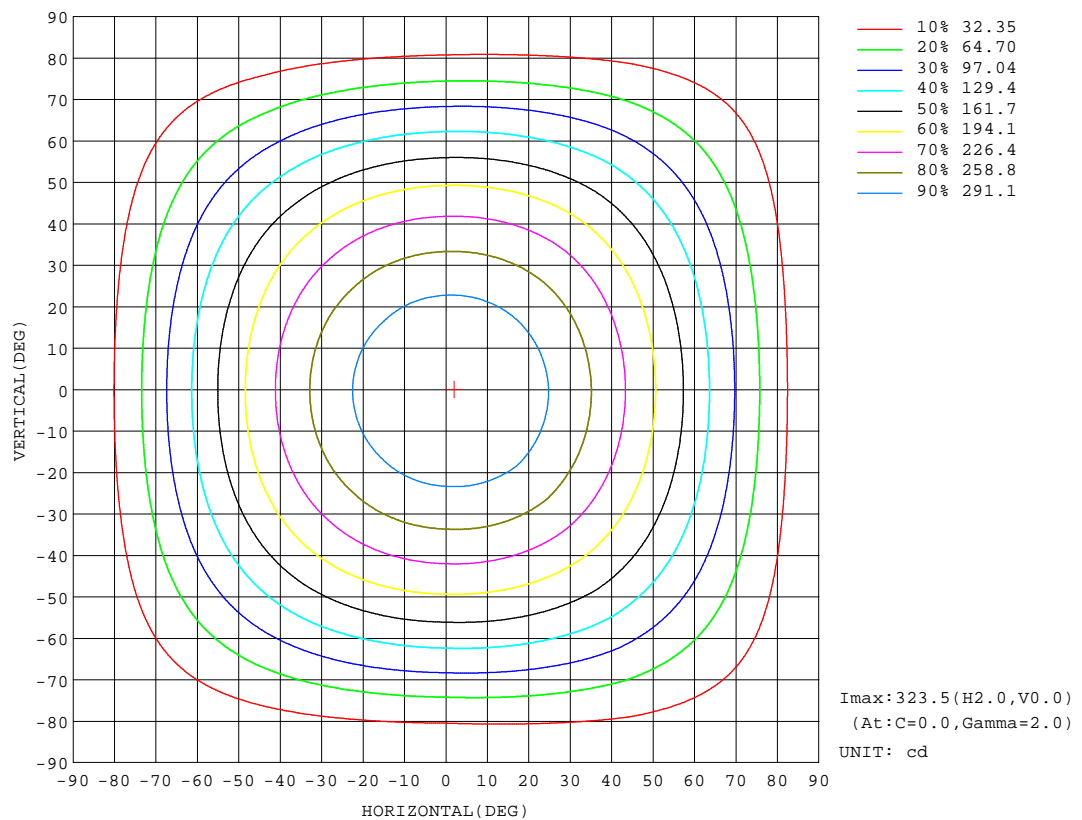
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	54	44	38	31
0.80	67	55	47	65	54	47	64	53	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	91	85	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:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.11x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9WW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:



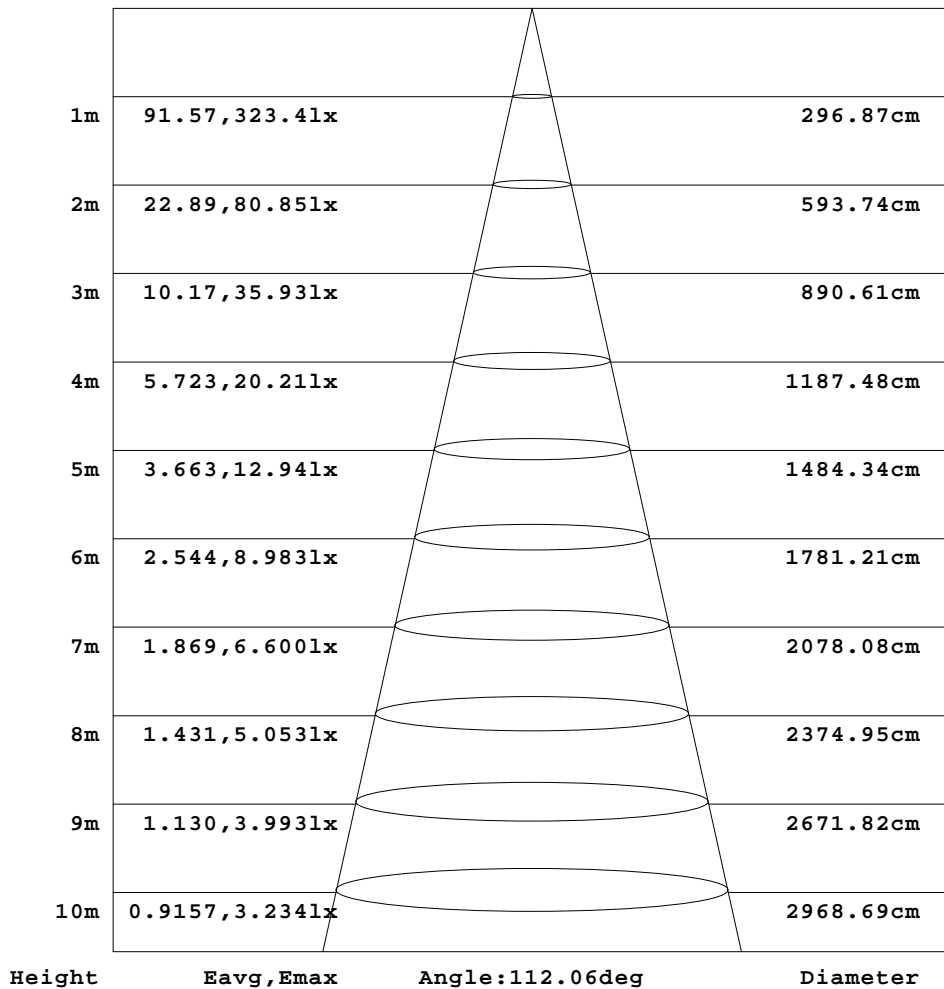
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-04-15

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:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.1lx1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9WW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:

Flux out:682.1 lm



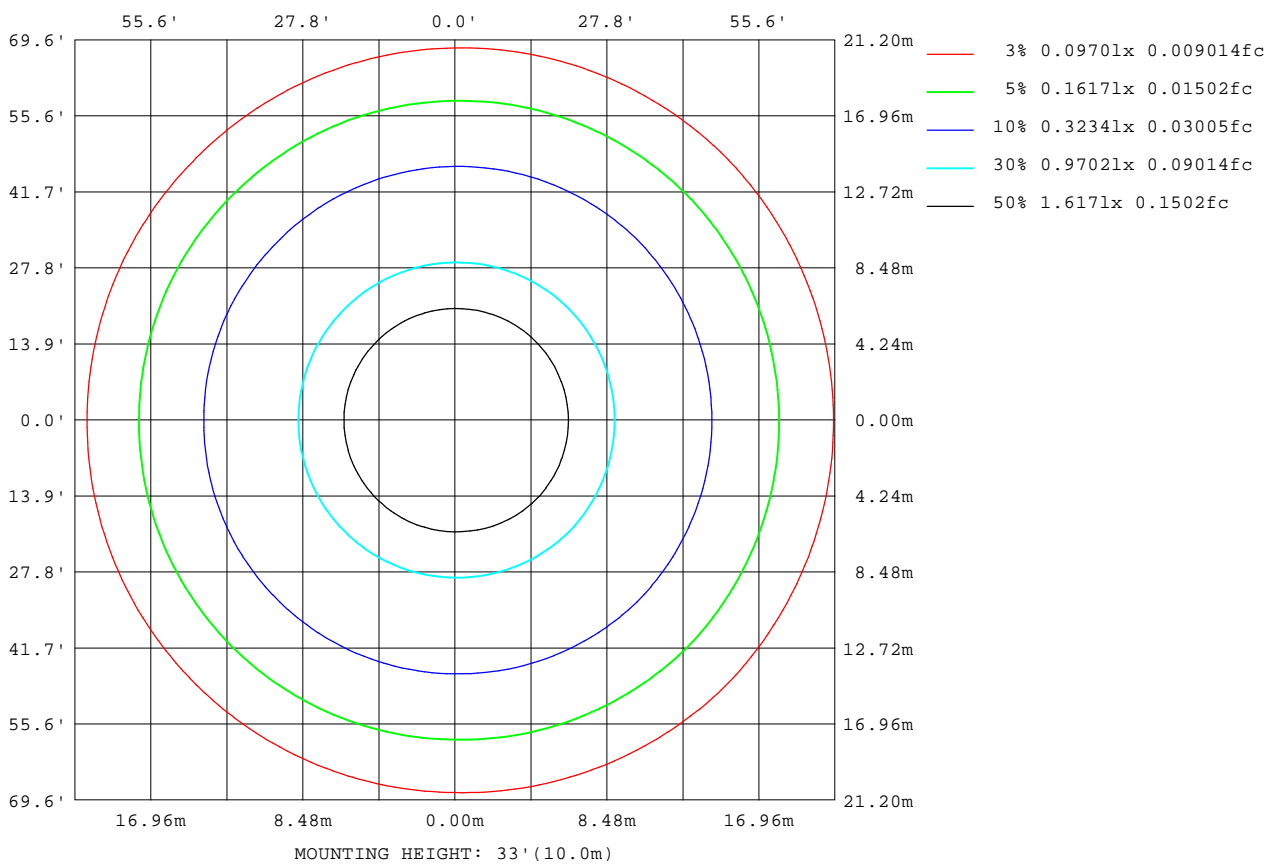
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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
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

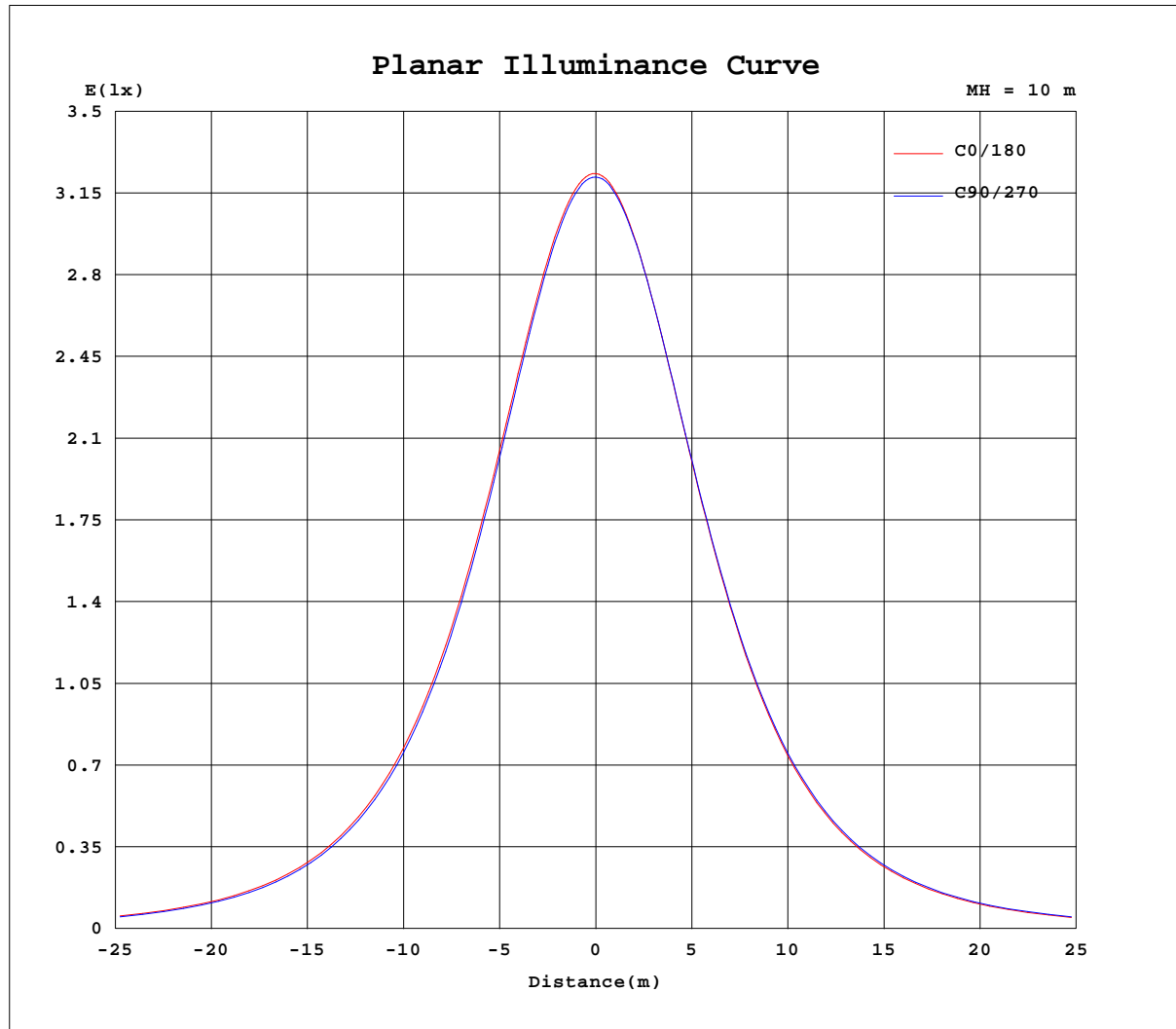
Test:U:24.00V I:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.1lx1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9WW24CSS050CC0100-NP	DIM.: 1000*20*15mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*20mm	Shielding Angle:



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

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.6367A P:15.28W PF:1.000 Freq:0Hz Lamp Flux:948.11x1 lm		
NAME: NMT2015-NP	TYPE:	WEIGHT:
SPEC.:NMT2015-9WW24CSS050CC0100-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	323	323	322	322	323	323	322	322										
5	323	322	321	320	321	320	320	321										
10	319	319	317	316	316	315	316	317										
15	312	312	309	308	308	307	308	310										
20	303	303	299	297	298	296	298	300										
25	291	291	287	285	284	283	285	288										
30	276	277	271	269	269	268	270	273										
35	259	260	254	252	251	251	253	257										
40	240	241	235	232	231	232	234	238										
45	219	219	214	212	210	210	213	218										
50	197	196	191	189	187	187	190	196										
55	173	174	167	165	162	163	166	172										
60	148	150	142	139	136	137	141	147										
65	122	123	115	113	110	110	115	121										
70	95.4	95.6	87.9	85.2	83.0	82.9	87.9	93.7										
75	68.6	68.5	60.5	58.1	56.6	56.0	61.6	66.7										
80	43.3	42.6	34.8	33.4	32.8	31.5	35.8	41.2										
85	22.6	20.5	13.5	14.8	15.4	13.4	14.3	20.0										
90	9.64	8.19	3.94	6.05	6.18	5.46	4.09	7.78										
95	4.45	4.67	3.51	4.28	3.46	4.31	3.79	4.35										
100	3.75	4.48	1.52	4.17	3.50	4.29	1.79	4.19										
105	3.77	4.36	1.16	4.05	3.58	4.18	1.20	4.26										
110	3.91	3.41	1.58	3.96	3.57	4.09	1.45	4.13										
115	3.95	4.48	2.01	3.95	3.57	4.09	1.78	4.05										
120	4.03	4.48	2.43	3.92	3.57	3.13	2.10	2.95										
125	4.05	4.09	2.74	3.23	3.57	2.73	2.40	2.93										
130	4.15	3.44	3.06	3.15	3.61	2.87	2.65	2.82										
135	4.24	3.61	3.31	3.39	3.67	3.09	2.87	2.85										
140	4.38	3.71	3.53	3.58	3.75	3.78	3.04	3.40										
145	4.46	3.77	3.73	3.81	3.81	3.97	3.27	3.29										
150	4.59	3.87	3.83	4.08	3.89	4.11	3.52	3.29										
155	4.76	3.98	4.07	4.40	4.03	4.28	3.92	3.29										
160	4.99	4.13	4.45	4.58	4.25	4.48	4.30	3.47										
165	5.12	4.41	4.78	4.76	4.48	4.71	4.66	3.91										
170	5.00	4.81	5.10	4.98	4.48	4.92	5.05	4.48										
175	4.65	5.20	5.44	5.28	4.43	5.20	5.41	5.12										
180	4.70	5.55	5.65	5.56	4.70	5.54	5.66	5.55										

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: