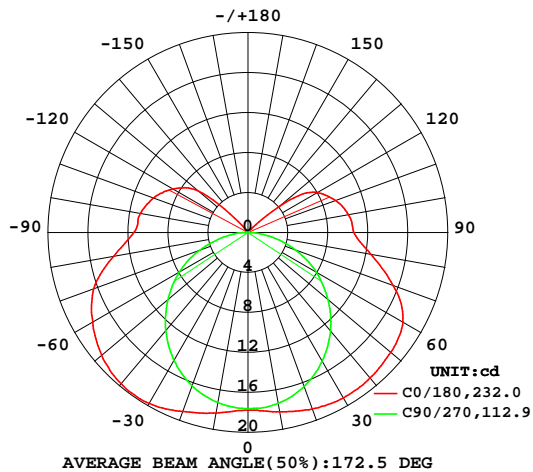


LUMINAIRE PHOTOMETRIC TEST REPORT

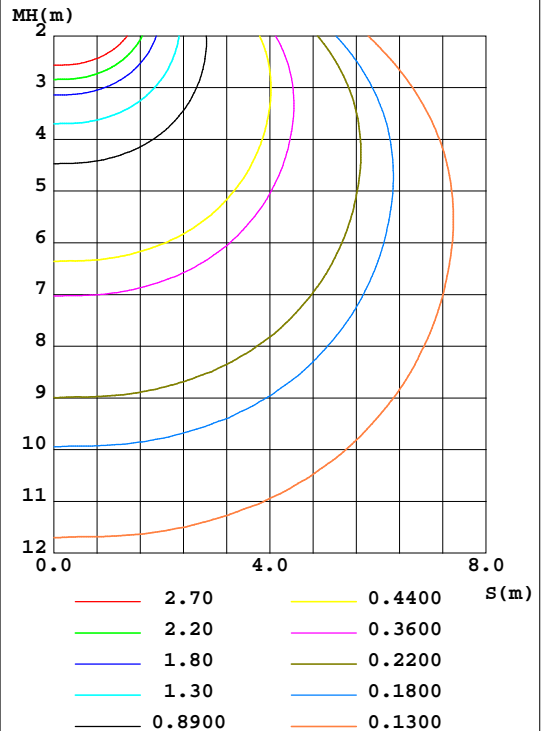
Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0B24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 10.67 lm/W			
MODEL	NMT1010	I _{max} (cd)	19.85	S/MH(C0/180)	1.63
NOMINAL POWER(W)	9.6	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	102.47	h UP,DN(C0-180)	10.0,39.4
NOMINAL FLUX(lm)	102.466	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	10.5,40.0
LAMPS INSIDE	1	h up(%)	20.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	79.4	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

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:

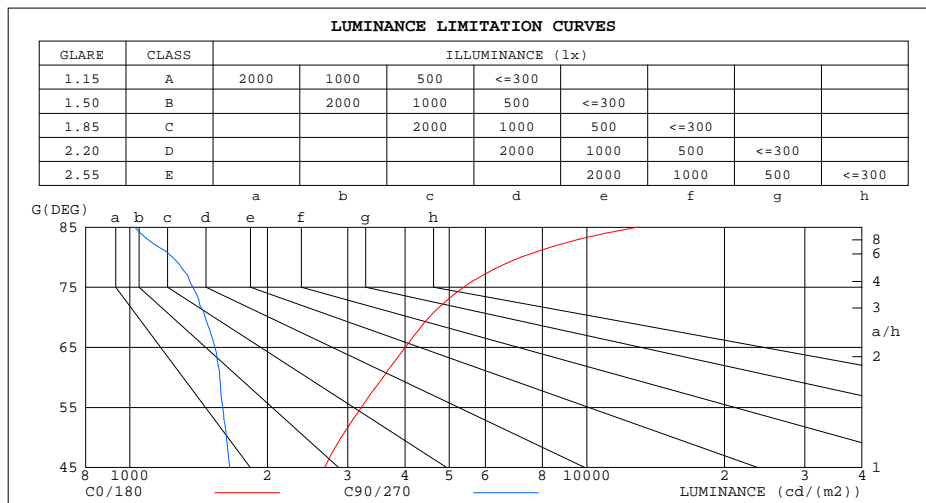
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	18.22	17.87	17.37	17.81	18.33	17.91	17.28	17.73	0~ 10	1.697	1.697	1.66,1.66
20	18.78	17.79	16.41	17.77	19.06	17.97	16.33	17.67	10~ 20	5.042	6.739	6.58,6.58
30	19.11	17.46	14.85	17.51	19.76	17.87	14.80	17.23	20~ 30	8.119	14.86	14.5,14.5
40	19.00	16.69	12.85	16.91	19.76	17.34	12.81	16.39	30~ 40	10.63	25.49	24.9,24.9
50	18.64	15.43	10.46	15.75	19.10	16.21	10.47	15.02	40~ 50	12.25	37.74	36.8,36.8
60	17.91	14.06	7.871	14.05	17.94	14.52	7.950	13.56	50~ 60	12.84	50.58	49.4,49.4
70	15.45	12.13	4.998	12.03	16.42	12.49	5.104	11.63	60~ 70	12.33	62.91	61.4,61.4
80	12.46	9.303	2.152	9.593	13.65	10.07	2.218	8.796	70~ 80	10.47	73.38	71.6,71.6
90	10.60	6.945	0.2277	7.406	11.43	7.863	0.3264	6.763	80~ 90	8.005	81.39	79.4,79.4
100	10.23	6.519	0.0802	6.739	10.95	7.182	0.0468	6.299	90~100	6.741	88.13	86,86
110	9.360	5.922	0.0668	6.255	10.08	6.655	0.0869	4.896	100~110	6.067	94.19	91.9,91.9
120	8.012	3.393	0.0868	4.637	8.722	5.112	0.1136	2.338	110~120	4.790	98.98	96.6,96.6
130	3.901	0.2871	0.1002	0.4873	6.447	0.7075	0.1469	0.2272	120~130	2.506	101.5	99,99
140	0.4278	0.2338	0.1336	0.2538	0.6691	0.2271	0.1604	0.2271	130~140	0.6184	102.1	99.7,99.7
150	0.3278	0.2338	0.1936	0.2539	0.2405	0.2271	0.1937	0.2204	140~150	0.1520	102.3	99.8,99.8
160	0.2939	0.2405	0.2004	0.2739	0.2405	0.2271	0.2470	0.2204	150~160	0.1106	102.4	99.9,99.9
170	0.2938	0.2672	0.2137	0.2872	0.2405	0.2271	0.2872	0.2204	160~170	0.0697	102.4	100,100
180	0.2538	0.3006	0.3006	0.3073	0.2405	0.2939	0.3073	0.3006	170~180	0.0247	102.5	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: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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0B24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	12972	1024
80	7175	1239
75	5376	1374
70	4518	1461
65	4003	1535
60	3582	1574
55	3207	1595
50	2900	1627
45	2665	1654

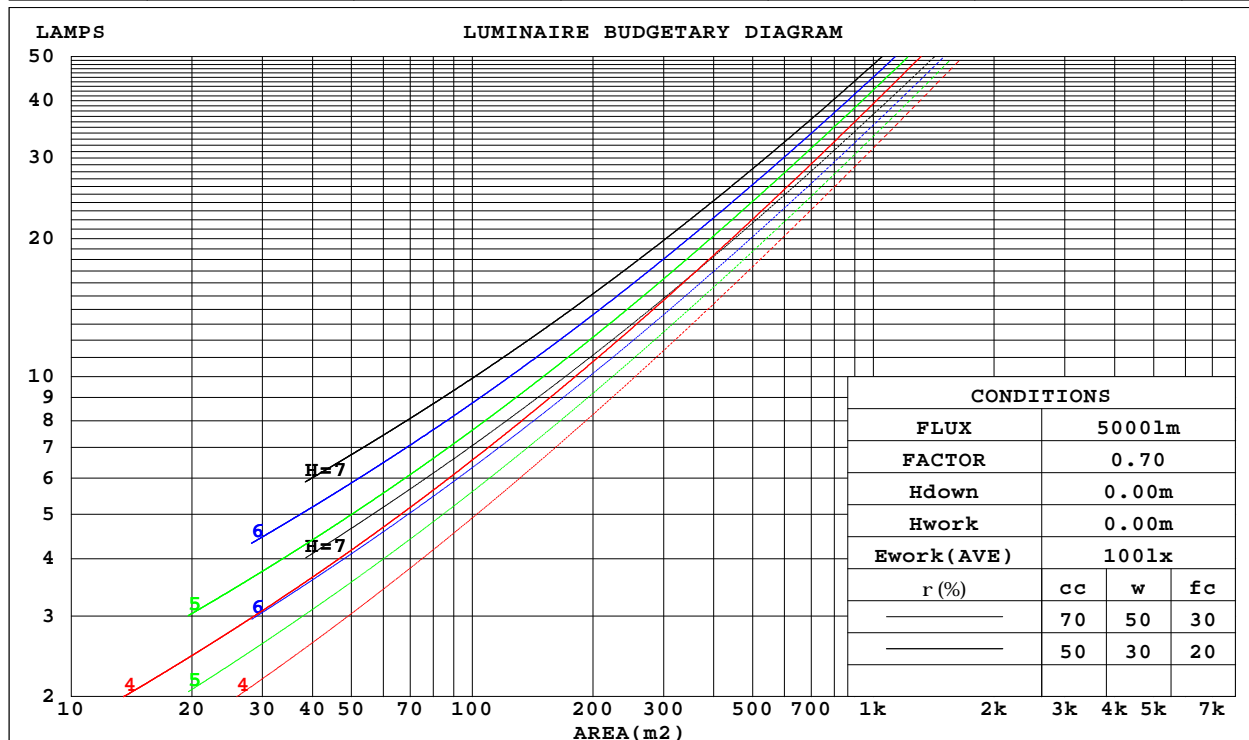
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-10-15

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0B24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	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															



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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0B24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	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	.396	.225	.071	.383	.218	.069	.358	.205	.066	.334	.193	.062	.313	.181	.058	
2.0	.342	.187	.057	.330	.182	.056	.307	.171	.053	.286	.160	.050	.266	.150	.047	
3.0	.303	.161	.048	.292	.156	.047	.271	.147	.045	.252	.138	.042	.234	.129	.040	
4.0	.272	.141	.042	.262	.137	.041	.243	.129	.038	.225	.121	.037	.209	.114	.035	
5.0	.247	.126	.036	.237	.122	.036	.220	.115	.034	.204	.108	.032	.189	.101	.030	
6.0	.225	.113	.032	.217	.110	.032	.201	.103	.030	.187	.097	.029	.173	.091	.027	
7.0	.208	.103	.029	.200	.100	.028	.186	.094	.027	.172	.088	.026	.159	.083	.024	
8.0	.192	.094	.026	.185	.091	.026	.172	.086	.025	.160	.081	.023	.148	.076	.022	
9.0	.179	.087	.024	.173	.084	.024	.160	.079	.022	.149	.075	.021	.138	.070	.020	
10.0	.167	.080	.022	.161	.078	.022	.150	.074	.021	.139	.069	.020	.129	.065	.019	

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	.347	.347	.347	.297	.297	.297	.203	.203	.203	.116	.116	.116	.037	.037	.037	
1.0	.344	.313	.286	.295	.269	.246	.202	.185	.170	.116	.107	.099	.037	.034	.032	
2.0	.338	.291	.251	.290	.250	.217	.198	.173	.151	.114	.101	.089	.037	.033	.029	
3.0	.331	.274	.230	.284	.237	.199	.195	.164	.140	.112	.096	.082	.036	.031	.027	
4.0	.323	.262	.216	.277	.227	.187	.191	.158	.132	.110	.092	.078	.035	.030	.026	
5.0	.315	.252	.206	.271	.218	.179	.187	.153	.127	.108	.090	.075	.035	.029	.025	
6.0	.308	.245	.199	.265	.212	.173	.183	.148	.123	.106	.087	.073	.034	.029	.024	
7.0	.301	.238	.194	.259	.206	.169	.179	.145	.120	.104	.085	.071	.034	.028	.024	
8.0	.294	.233	.190	.253	.202	.166	.175	.142	.118	.102	.084	.070	.033	.027	.023	
9.0	.288	.228	.187	.248	.198	.163	.172	.139	.116	.100	.082	.069	.032	.027	.023	
10.0	.282	.224	.185	.243	.194	.161	.169	.137	.115	.098	.081	.068	.032	.027	.023	

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm											
NAME: NMT1010						TYPE:			WEIGHT:		
SPEC.:NMT1010-0B24NSN000CC0100						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	21.3	22.7	21.8	23.2	23.8	
	3H	26.9	28.2	27.5	28.8	29.4	22.9	24.2	23.5	24.8	25.4
	4H	28.4	29.6	29.0	30.2	30.8	23.6	24.8	24.2	25.4	26.1
	6H	29.9	31.0	30.5	31.7	32.4	24.1	25.2	24.7	25.8	26.5
	8H	30.8	31.9	31.4	32.5	33.2	24.2	25.3	24.8	25.9	26.7
	12H	31.8	32.8	32.4	33.4	34.2	24.3	25.4	24.9	26.0	26.7
4H	2H	24.7	25.9	25.3	26.5	27.2	22.8	24.0	23.4	24.6	25.3
	3H	27.7	28.8	28.3	29.4	30.1	24.7	25.8	25.3	26.4	27.1
	4H	29.3	30.3	30.0	30.9	31.7	25.6	26.5	26.2	27.2	28.0
	6H	31.1	31.9	31.7	32.6	33.4	26.3	27.1	26.9	27.8	28.6
	8H	32.0	32.8	32.7	33.5	34.3	26.5	27.3	27.2	28.0	28.8
	12H	33.2	33.9	33.9	34.6	35.4	26.7	27.4	27.4	28.1	28.9
8H	4H	29.7	30.5	30.3	31.2	32.0	26.8	27.6	27.5	28.3	29.1
	6H	31.7	32.4	32.4	33.1	33.9	27.9	28.6	28.6	29.3	30.1
	8H	32.8	33.5	33.6	34.2	35.1	28.3	28.9	29.1	29.7	30.6
	12H	34.2	34.8	35.0	35.5	36.4	28.7	29.2	29.5	30.0	30.9
12H	4H	29.7	30.4	30.4	31.1	32.0	27.1	27.8	27.8	28.5	29.4
	6H	31.8	32.4	32.5	33.2	34.0	28.4	29.1	29.2	29.8	30.7
	8H	33.1	33.6	33.8	34.4	35.3	29.1	29.6	29.9	30.4	31.3
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, 102.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -7.9)

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0B24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

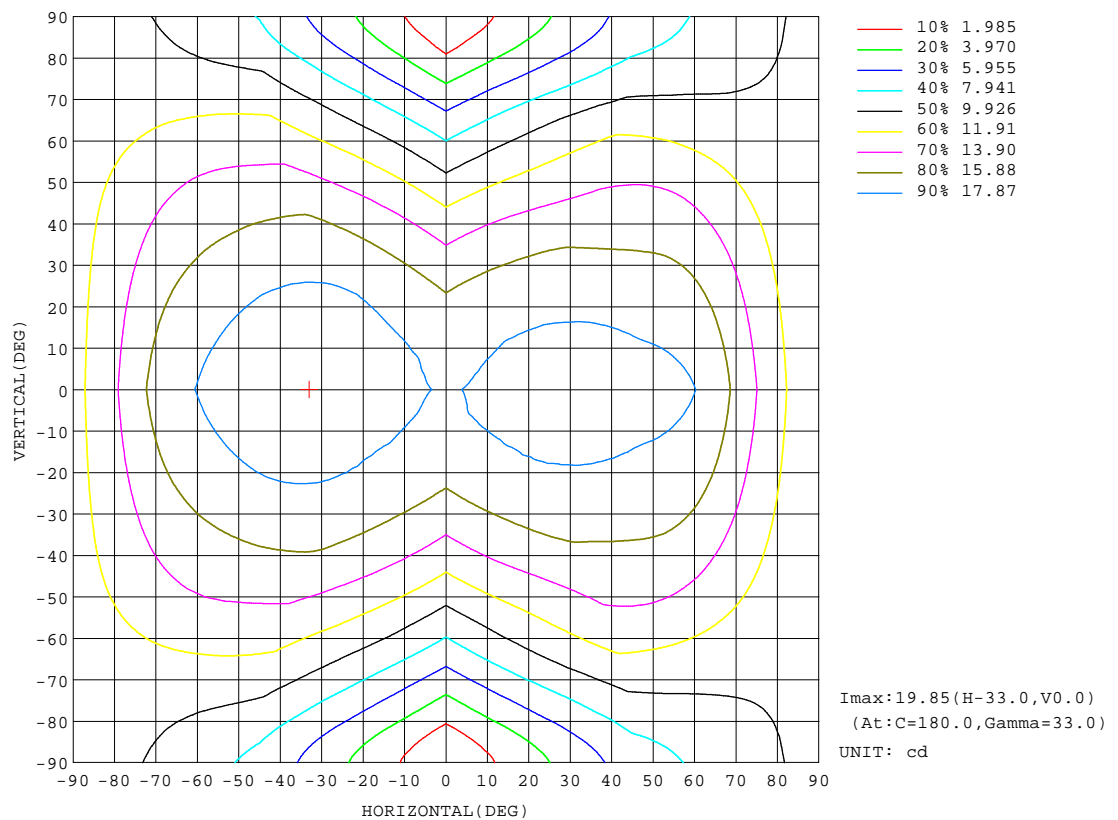
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	33	25	44	32	25	42	31	25	18
0.80	54	41	33	53	40	32	50	39	31	24
1.00	62	49	40	60	48	39	57	48	38	29
1.25	69	56	47	67	55	46	62	52	45	35
1.50	74	62	53	72	60	52	67	57	49	39
2.00	82	70	62	79	68	60	73	64	57	45
2.50	87	76	68	83	73	66	76	69	62	49
3.00	91	81	73	87	78	71	80	73	67	53
4.00	95	87	80	91	84	78	84	78	73	57
5.00	99	91	85	94	88	82	86	81	77	61
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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0B24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



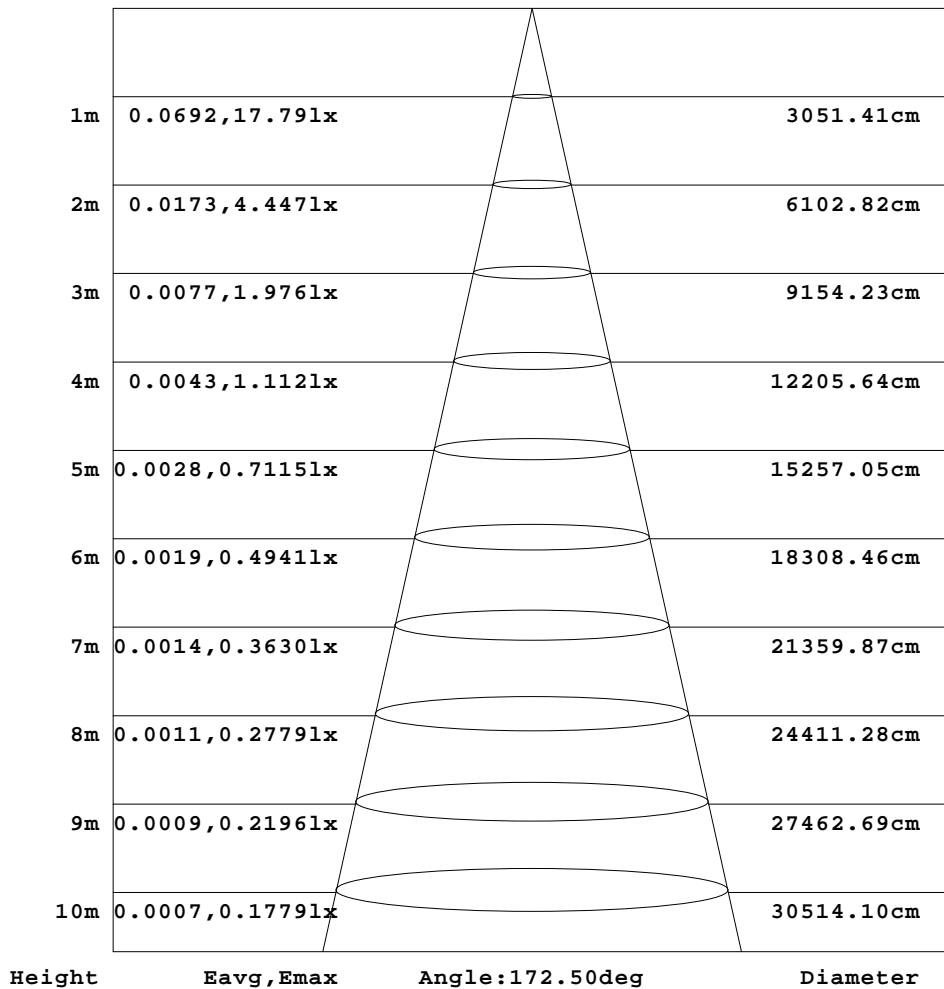
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-10-15

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0B24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

Flux out:79.20 lm



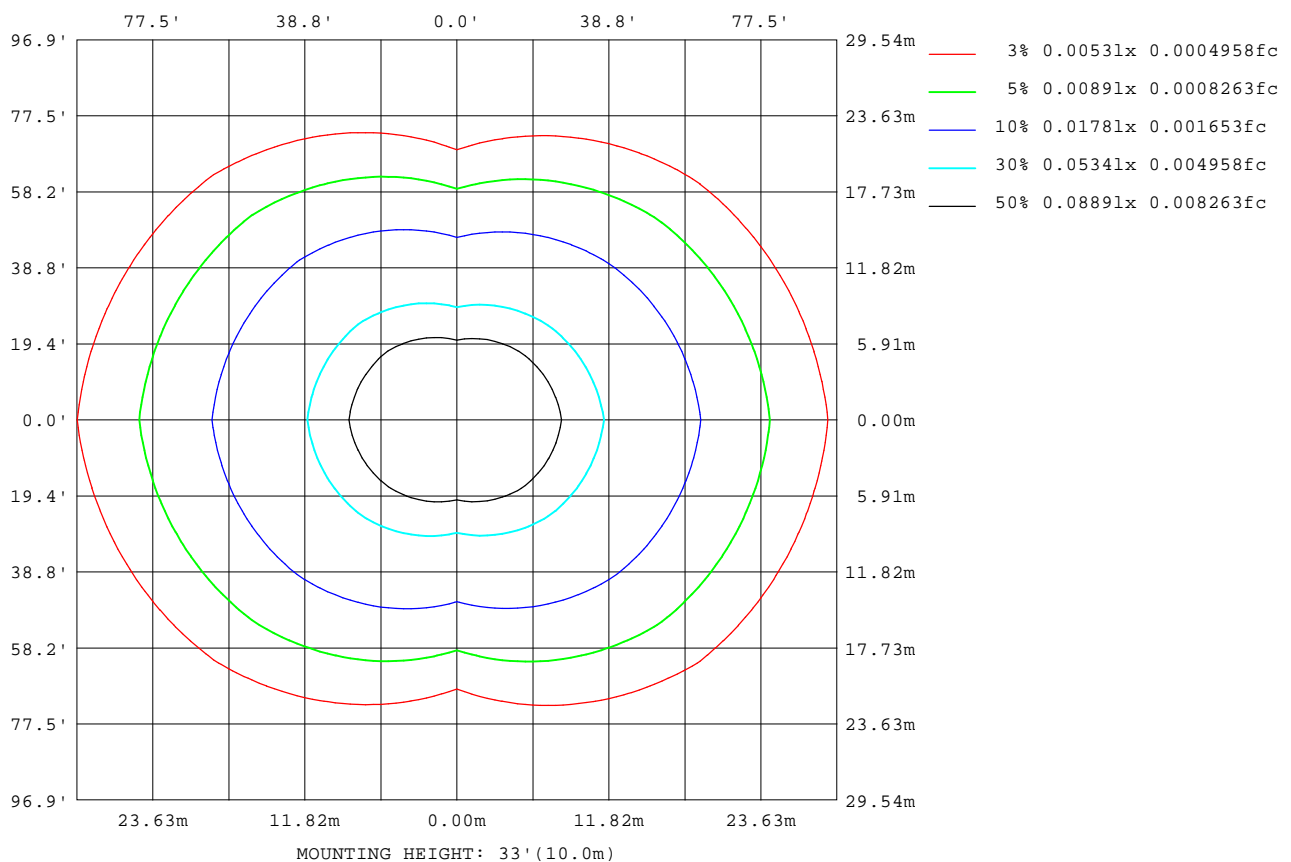
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

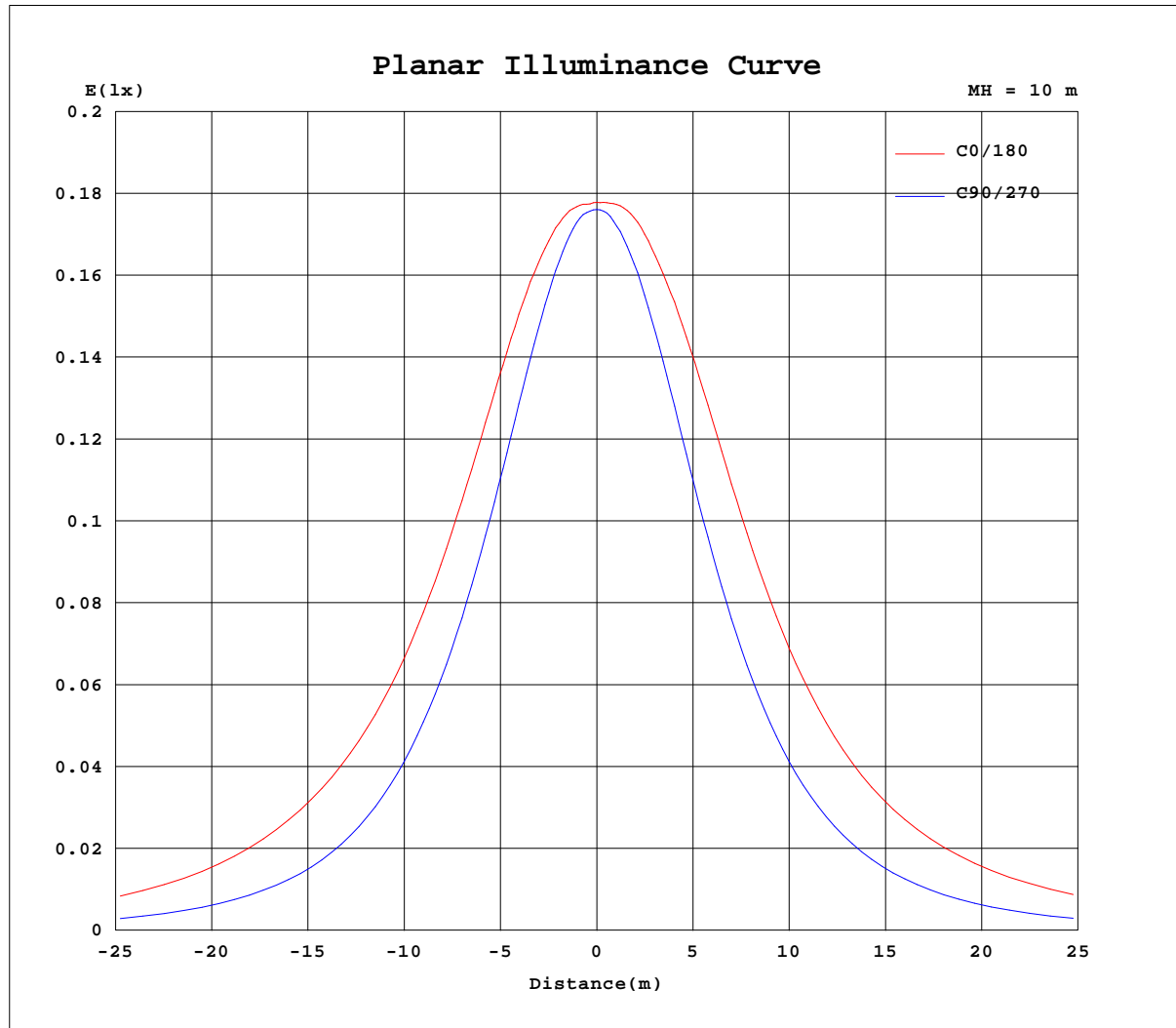
Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0B24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



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

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:

Planar Illuminance Curve



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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:102.466x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0B24NSN000CC0100	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	17.8	17.7	17.6	17.7	17.8	17.7	17.6	17.7										
5	17.9	17.8	17.6	17.7	18.0	17.8	17.5	17.7										
10	18.2	17.9	17.4	17.8	18.3	17.9	17.3	17.7										
15	18.5	17.9	17.0	17.8	18.7	18.0	16.9	17.7										
20	18.8	17.8	16.4	17.8	19.1	18.0	16.3	17.7										
25	19.0	17.7	15.7	17.6	19.5	18.0	15.6	17.5										
30	19.1	17.5	14.9	17.5	19.8	17.9	14.8	17.2										
35	19.1	17.1	13.9	17.3	19.8	17.7	13.9	16.9										
40	19.0	16.7	12.8	16.9	19.8	17.3	12.8	16.4										
45	18.8	16.1	11.7	16.4	19.5	16.9	11.7	15.7										
50	18.6	15.4	10.5	15.7	19.1	16.2	10.5	15.0										
55	18.4	14.8	9.15	15.0	18.6	15.4	9.24	14.3										
60	17.9	14.1	7.87	14.0	17.9	14.5	7.95	13.6										
65	16.9	13.2	6.49	13.0	17.3	13.5	6.57	12.7										
70	15.5	12.1	5.00	12.0	16.4	12.5	5.10	11.6										
75	13.9	10.7	3.56	10.8	15.1	11.3	3.61	10.2										
80	12.5	9.30	2.15	9.59	13.6	10.1	2.22	8.80										
85	11.3	7.93	0.89	8.31	12.4	8.74	1.10	7.51										
90	10.6	6.94	0.23	7.41	11.4	7.86	0.33	6.76										
95	10.5	6.60	0.15	6.97	11.1	7.41	0.15	6.45										
100	10.2	6.52	0.08	6.74	11.0	7.18	0.05	6.30										
105	9.85	6.40	0.07	6.57	10.5	6.97	0.07	5.27										
110	9.36	5.92	0.07	6.26	10.1	6.65	0.09	4.90										
115	8.73	5.16	0.09	5.21	9.46	5.77	0.10	4.29										
120	8.01	3.39	0.09	4.64	8.72	5.11	0.11	2.34										
125	6.76	1.14	0.09	2.46	7.82	3.08	0.13	0.60										
130	3.90	0.29	0.10	0.49	6.45	0.71	0.15	0.23										
135	1.13	0.24	0.11	0.25	3.32	0.24	0.15	0.23										
140	0.43	0.23	0.13	0.25	0.67	0.23	0.16	0.23										
145	0.38	0.23	0.15	0.25	0.24	0.23	0.18	0.22										
150	0.33	0.23	0.19	0.25	0.24	0.23	0.19	0.22										
155	0.31	0.24	0.20	0.27	0.24	0.23	0.21	0.22										
160	0.29	0.24	0.20	0.27	0.24	0.23	0.25	0.22										
165	0.29	0.25	0.20	0.27	0.24	0.23	0.27	0.22										
170	0.29	0.27	0.21	0.29	0.24	0.23	0.29	0.22										
175	0.26	0.29	0.24	0.30	0.24	0.23	0.29	0.23										
180	0.25	0.30	0.30	0.31	0.24	0.29	0.31	0.30										

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: