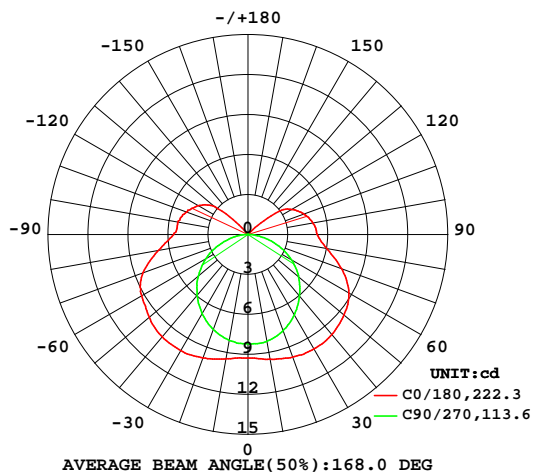


LUMINAIRE PHOTOMETRIC TEST REPORT

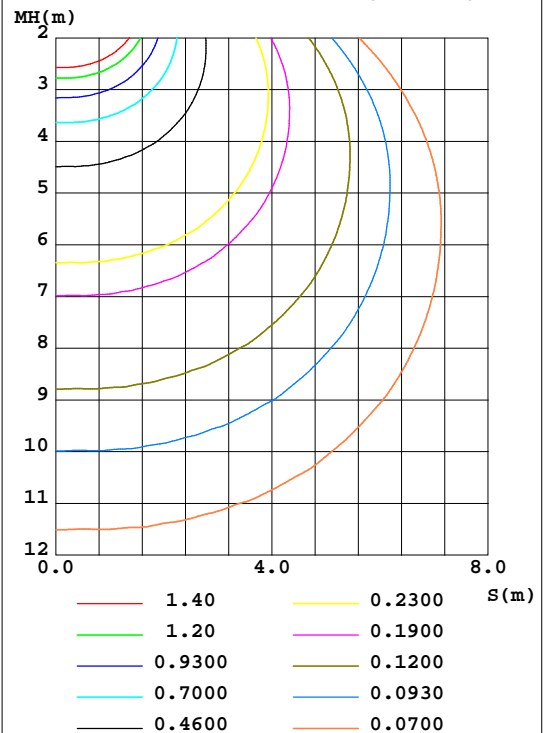
Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:48.3218x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0Y24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 5.03 lm/W
MODEL	NMT1010	I _{max} (cd)	10.07	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)	48.322	h UP,DN(C0-180)	9.7,39.6	
NOMINAL FLUX(lm)	48.3218	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	10.4,40.2	
LAMPS INSIDE	1	h up(%)	20.2	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	24	h down(%)	79.8	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:

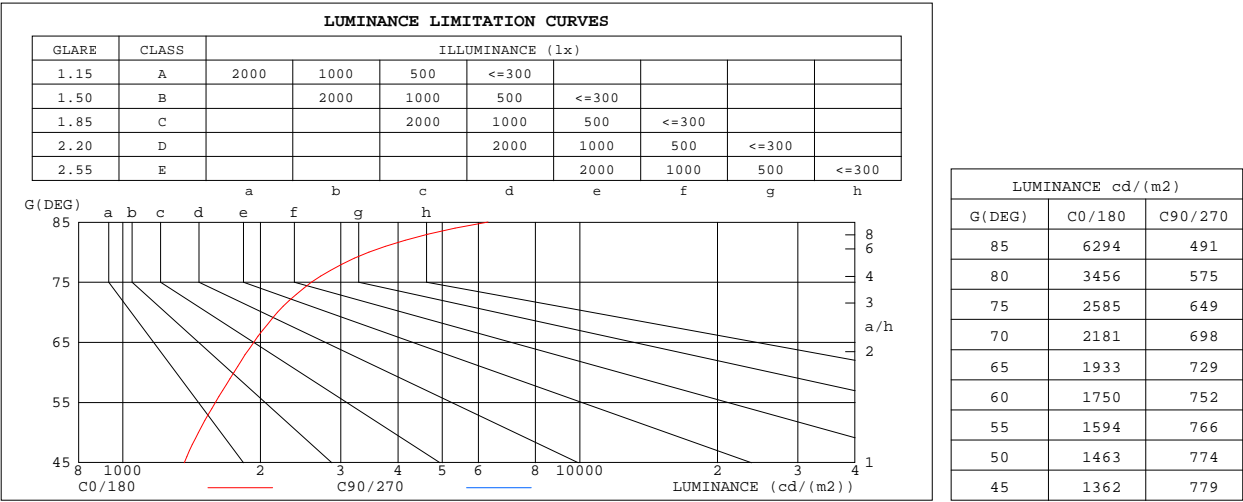
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	9.498	8.750	8.142	7.989	9.479	8.637	8.074	8.075	0~ 10	0.8178	0.8178	1.69,1.69
20	9.799	8.730	7.689	7.982	9.859	8.643	7.594	8.049	10~ 20	2.430	3.247	6.72,6.72
30	9.912	8.542	6.968	7.794	10.07	8.551	6.879	7.835	20~ 30	3.910	7.157	14.8,14.8
40	9.799	8.135	6.034	7.461	10.03	8.197	5.945	7.402	30~ 40	5.092	12.25	25.3,25.3
50	9.406	7.473	4.977	6.892	9.677	7.602	4.866	6.728	40~ 50	5.843	18.09	37.4,37.4
60	8.751	6.677	3.758	6.150	9.210	6.780	3.660	5.980	50~ 60	6.093	24.19	50.1,50.1
70	7.458	5.650	2.387	5.342	8.379	5.914	2.321	4.987	60~ 70	5.824	30.01	62.1,62.1
80	6.002	4.211	0.9990	4.113	6.809	4.633	1.006	3.725	70~ 80	4.879	34.89	72.2,72.2
90	5.203	3.226	0.1079	3.085	5.577	3.509	0.1068	2.913	80~ 90	3.694	38.58	79.8,79.8
100	4.970	2.986	0.0334	2.859	5.356	3.280	0.0070	2.646	90~100	3.102	41.68	86.3,86.3
110	4.483	2.711	0.0267	2.665	4.929	3.073	0.0267	2.095	100~110	2.807	44.49	92.1,92.1
120	3.789	1.543	0.0267	1.967	4.341	2.433	0.0468	1.054	110~120	2.225	46.72	96.7,96.7
130	1.912	0.0935	0.0267	0.1723	3.258	0.3435	0.0534	0.0803	120~130	1.180	47.90	99.1,99.1
140	0.2007	0.0935	0.0267	0.1002	0.2986	0.0868	0.0668	0.0802	130~140	0.2885	48.18	99.7,99.7
150	0.1403	0.0935	0.0267	0.0935	0.1002	0.0935	0.0802	0.0802	140~150	0.0586	48.24	99.8,99.8
160	0.1202	0.0935	0.0666	0.1002	0.1002	0.1066	0.0935	0.0802	150~160	0.0418	48.28	99.9,99.9
170	0.1202	0.1002	0.1002	0.0935	0.1002	0.1069	0.1002	0.0868	160~170	0.0281	48.31	100,100
180	0.1002	0.1002	0.1002	0.0935	0.0935	0.1069	0.1002	0.1002	170~180	0.0096	48.32	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
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:48.3218x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0Y24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



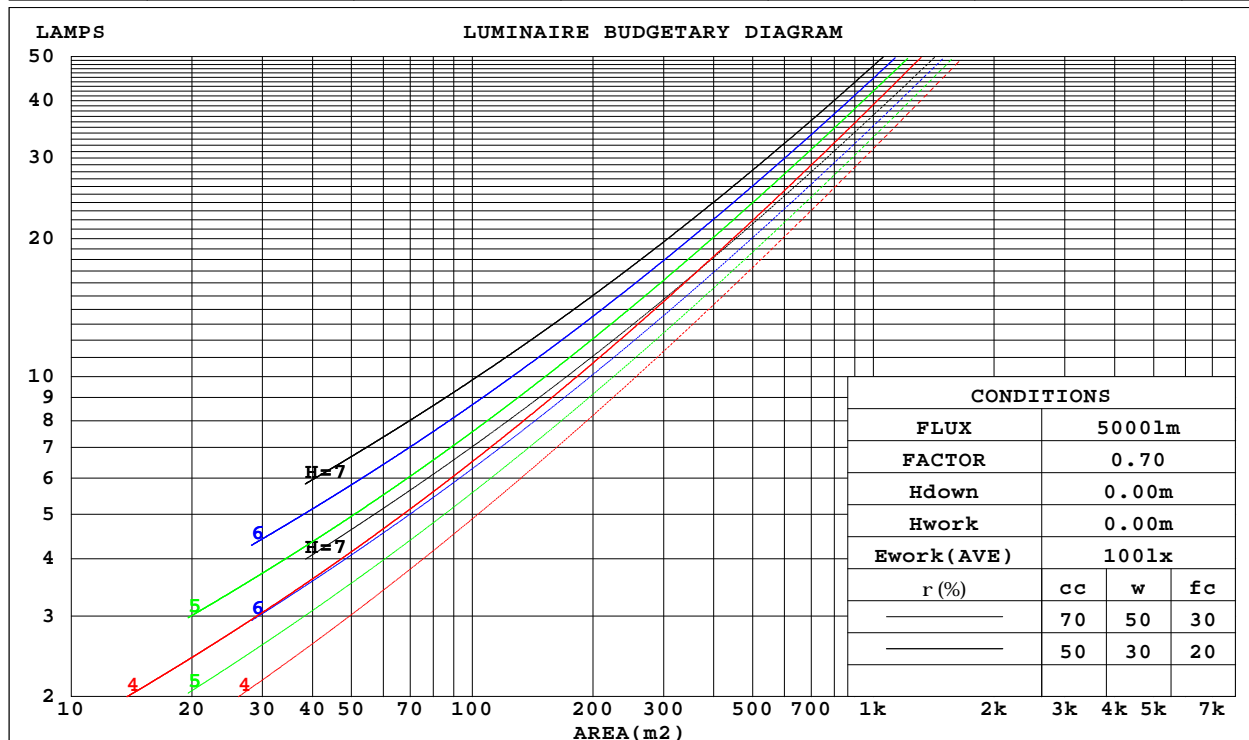
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-10-15

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:48.3218x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0Y24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	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: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:

WEC AND CCEC

Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:48.3218x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0Y24NSN000CC0100	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	.394	.224	.071	.381	.217	.069	.355	.204	.065	.332	.192	.062	.311	.180	.058															
2.0	.340	.187	.057	.328	.181	.056	.306	.170	.053	.285	.160	.050	.265	.150	.047															
3.0	.302	.161	.048	.291	.156	.047	.270	.146	.045	.251	.138	.042	.234	.129	.040															
4.0	.271	.141	.041	.261	.137	.040	.243	.129	.038	.225	.121	.036	.209	.114	.035															
5.0	.246	.125	.036	.237	.122	.035	.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	.207	.102	.029	.200	.100	.028	.186	.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	.179	.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															

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	.344	.344	.344	.294	.294	.294	.201	.201	.201	.115	.115	.115	.037	.037	.037	
1.0	.341	.310	.283	.292	.266	.243	.200	.183	.168	.115	.106	.098	.037	.034	.032	
2.0	.335	.288	.248	.287	.248	.214	.196	.171	.150	.113	.100	.088	.036	.032	.029	
3.0	.327	.271	.227	.281	.234	.196	.193	.163	.138	.111	.095	.081	.036	.031	.027	
4.0	.320	.259	.212	.274	.224	.185	.189	.156	.130	.109	.091	.077	.035	.030	.025	
5.0	.312	.249	.203	.268	.216	.176	.185	.151	.125	.107	.088	.074	.034	.029	.024	
6.0	.305	.241	.196	.262	.209	.171	.181	.146	.121	.105	.086	.072	.034	.028	.024	
7.0	.297	.235	.191	.256	.204	.166	.177	.143	.118	.103	.084	.070	.033	.028	.023	
8.0	.291	.229	.187	.250	.199	.163	.173	.140	.116	.101	.082	.069	.033	.027	.023	
9.0	.284	.224	.184	.245	.195	.161	.170	.137	.114	.099	.081	.068	.032	.027	.023	
10.0	.278	.220	.182	.240	.191	.159	.167	.135	.113	.097	.080	.067	.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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:48.3218x1 lm										
NAME: NMT1010					TYPE:			WEIGHT:		
SPEC.:NMT1010-0Y24NSN000CC0100					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	24.4	25.8	24.9	26.3	26.9	21.4	22.8	21.9	23.3	23.9
3H	27.1	28.4	27.7	28.9	29.6	23.0	24.3	23.6	24.8	25.5
4H	28.5	29.7	29.1	30.3	31.0	23.6	24.8	24.2	25.4	26.1
6H	30.0	31.2	30.7	31.8	32.5	24.1	25.2	24.7	25.8	26.5
8H	30.9	32.0	31.5	32.6	33.3	24.2	25.3	24.8	25.9	26.7
12H	31.9	33.0	32.5	33.6	34.3	24.3	25.4	24.9	26.0	26.7
4H 2H	24.9	26.1	25.5	26.7	27.4	22.9	24.1	23.5	24.7	25.3
3H	27.8	28.9	28.5	29.5	30.3	24.8	25.8	25.4	26.4	27.2
4H	29.4	30.4	30.1	31.1	31.8	25.6	26.6	26.2	27.2	28.0
6H	31.2	32.0	31.8	32.7	33.5	26.2	27.1	26.9	27.8	28.6
8H	32.1	32.9	32.8	33.6	34.4	26.5	27.3	27.2	28.0	28.8
12H	33.3	34.0	34.0	34.7	35.6	26.6	27.4	27.3	28.1	28.9
8H 4H	29.7	30.6	30.4	31.2	32.0	26.7	27.5	27.4	28.2	29.0
6H	31.7	32.4	32.4	33.1	34.0	27.8	28.5	28.5	29.2	30.0
8H	32.9	33.5	33.6	34.3	35.1	28.2	28.9	29.0	29.6	30.4
12H	34.3	34.8	35.0	35.6	36.5	28.6	29.1	29.4	29.9	30.8
12H 4H	29.8	30.5	30.5	31.2	32.0	27.1	27.8	27.8	28.5	29.3
6H	31.8	32.5	32.6	33.2	34.1	28.3	29.0	29.1	29.7	30.6
8H	33.1	33.7	33.9	34.4	35.3	29.0	29.5	29.7	30.3	31.2
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, 48.32 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -10.5)

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:48.3218x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0Y24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

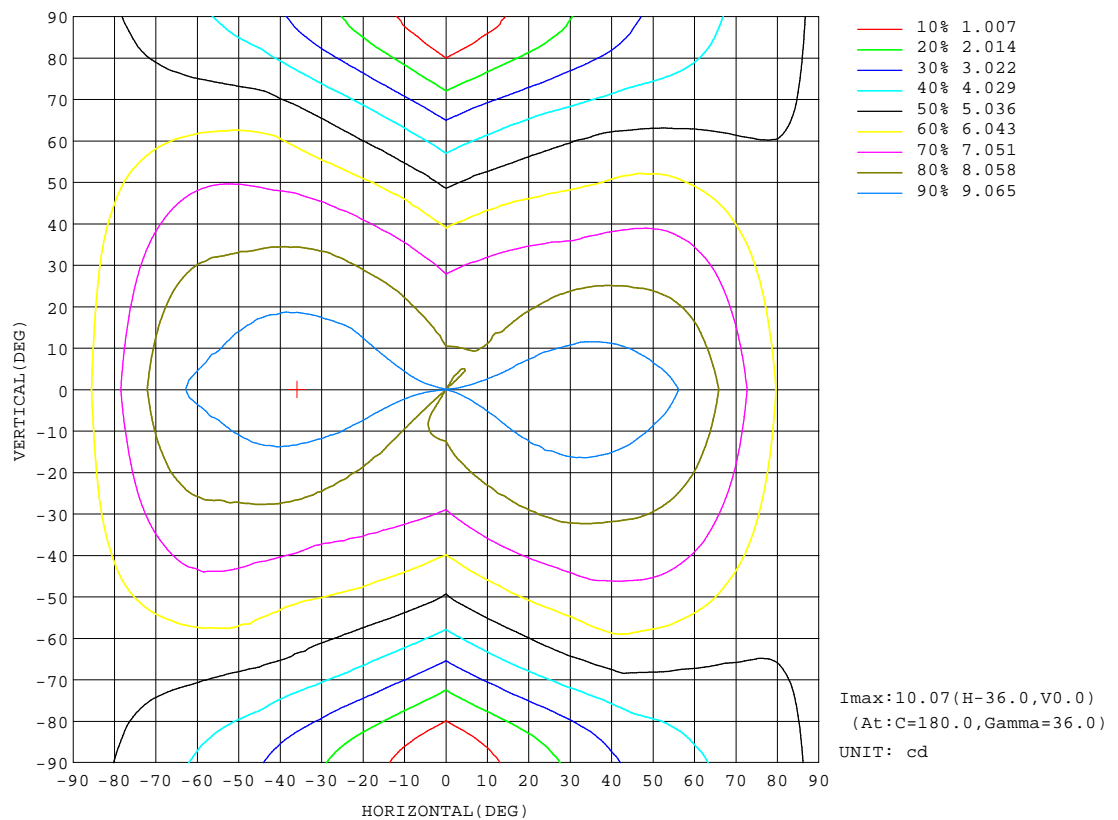
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	33	26	44	32	25	43	32	25	18
0.80	55	41	33	53	41	33	50	39	32	24
1.00	62	49	40	61	48	40	57	49	39	30
1.25	69	56	48	67	55	47	63	52	45	35
1.50	75	62	53	72	60	52	67	57	50	39
2.00	82	71	62	79	69	61	73	64	58	46
2.50	87	76	68	83	74	66	77	69	63	49
3.00	91	81	73	87	78	71	80	73	67	53
4.00	96	87	81	92	84	78	84	78	73	58
5.00	99	92	86	95	88	83	87	82	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:48.3218x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0Y24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



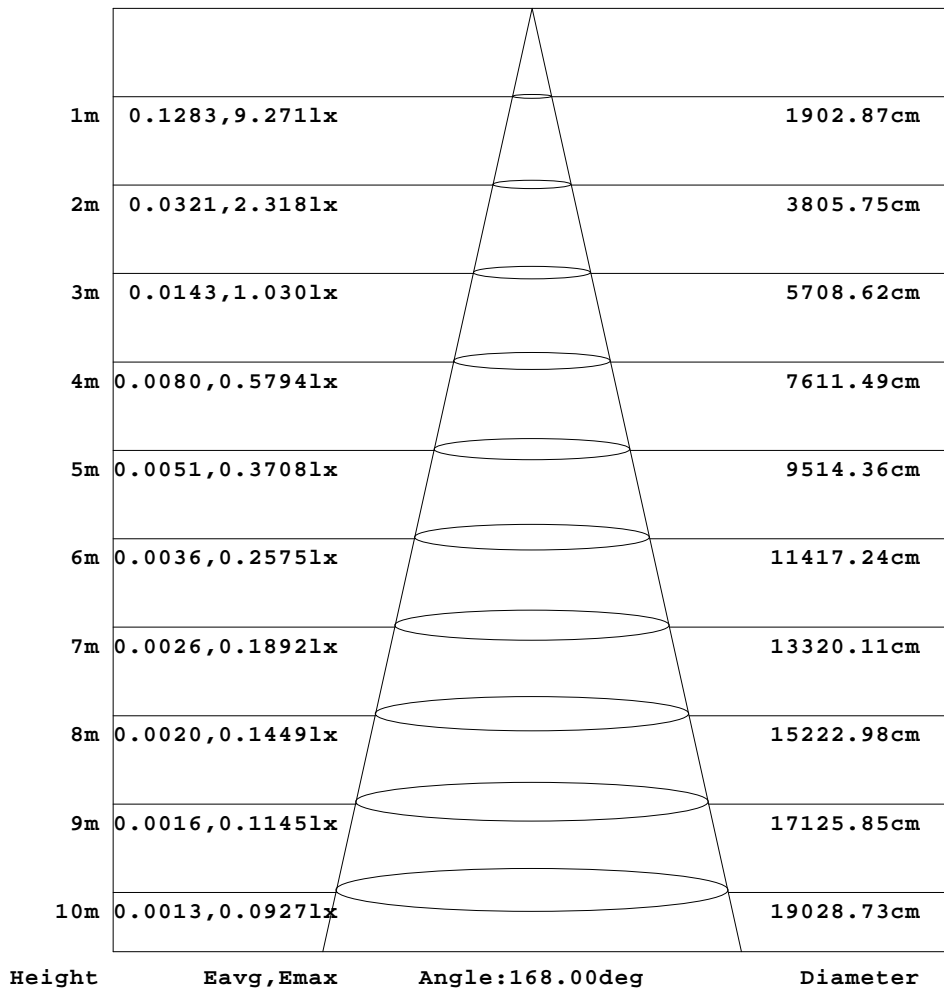
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-10-15

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:48.3218x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0Y24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

Flux out:36.49 lm



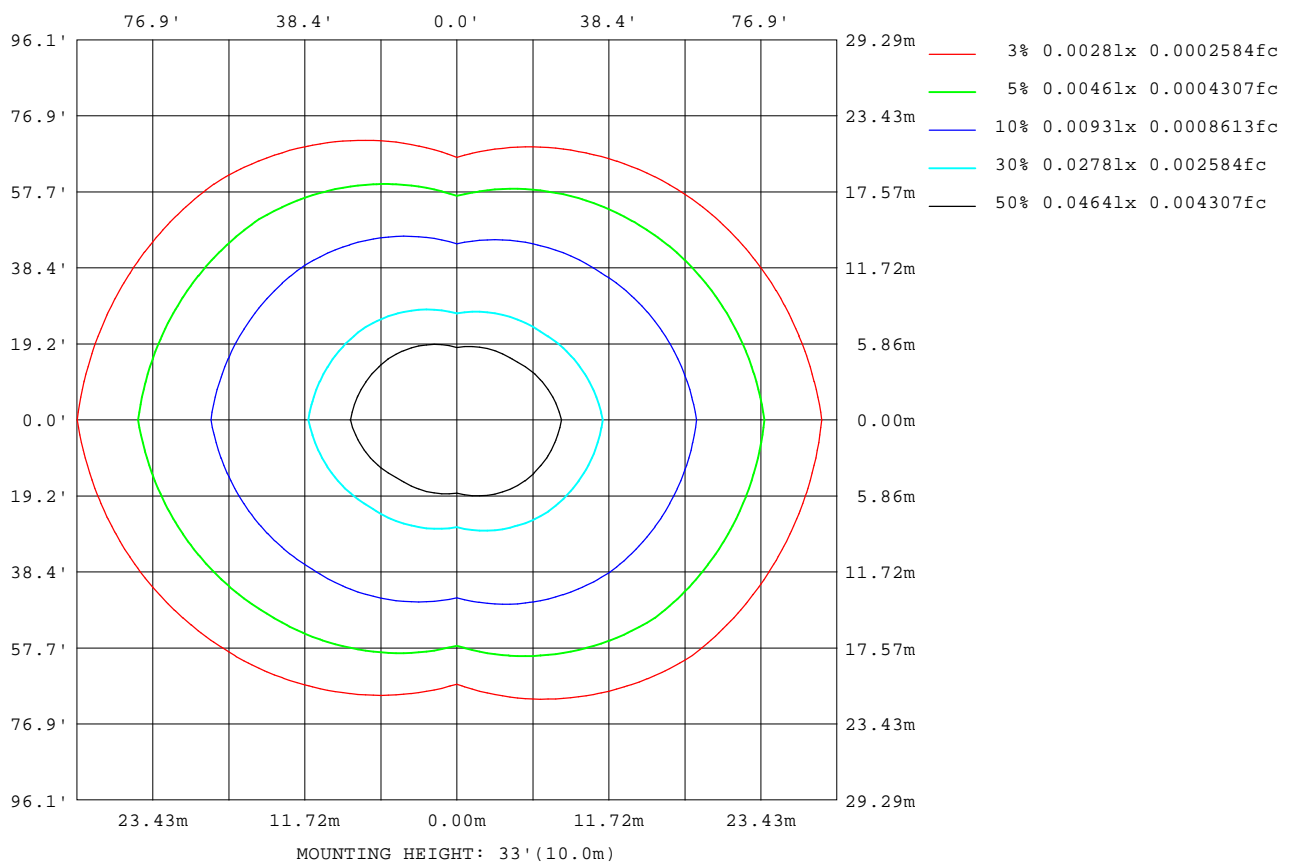
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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
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

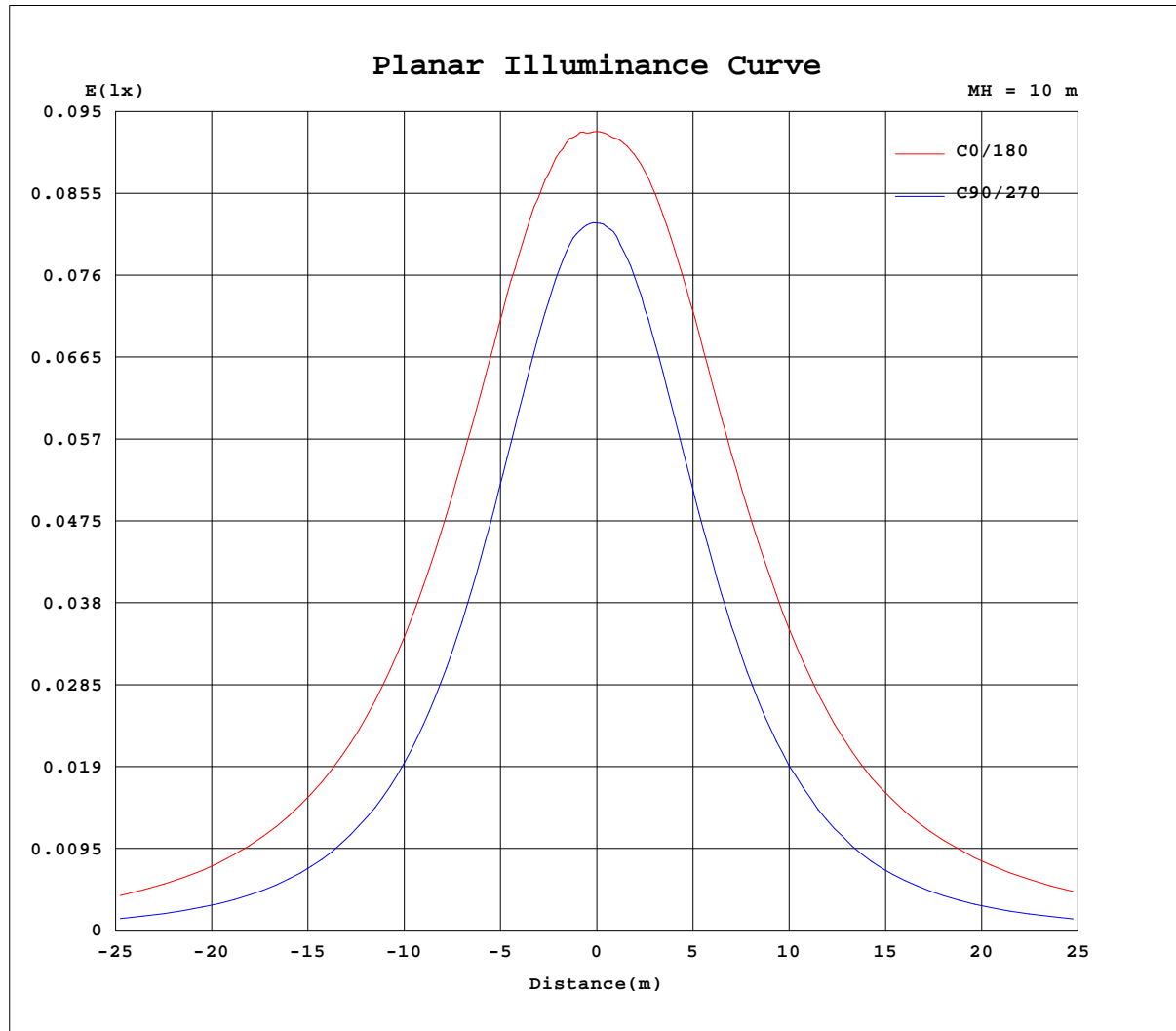
Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:48.3218x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0Y24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:48.3218x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0Y24NSN000CC0100	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	9.27	8.67	8.21	7.99	9.27	8.67	8.21	7.99										
5	9.36	8.74	8.22	7.99	9.30	8.64	8.20	8.02										
10	9.50	8.75	8.14	7.99	9.48	8.64	8.07	8.08										
15	9.66	8.75	7.96	7.99	9.69	8.64	7.87	8.07										
20	9.80	8.73	7.69	7.98	9.86	8.64	7.59	8.05										
25	9.91	8.66	7.36	7.91	10.00	8.64	7.27	7.98										
30	9.91	8.54	6.97	7.79	10.1	8.55	6.88	7.84										
35	9.91	8.39	6.51	7.66	10.1	8.40	6.43	7.66										
40	9.80	8.14	6.03	7.46	10.0	8.20	5.94	7.40										
45	9.63	7.83	5.51	7.19	9.90	7.92	5.40	7.10										
50	9.41	7.47	4.98	6.89	9.68	7.60	4.87	6.73										
55	9.15	7.11	4.39	6.54	9.40	7.21	4.26	6.36										
60	8.75	6.68	3.76	6.15	9.21	6.78	3.66	5.98										
65	8.17	6.26	3.08	5.76	8.92	6.37	3.02	5.58										
70	7.46	5.65	2.39	5.34	8.38	5.91	2.32	4.99										
75	6.69	4.93	1.68	4.73	7.62	5.30	1.61	4.34										
80	6.00	4.21	1.00	4.11	6.81	4.63	1.01	3.72										
85	5.49	3.62	0.43	3.51	6.11	3.97	0.49	3.20										
90	5.20	3.23	0.11	3.09	5.58	3.51	0.11	2.91										
95	5.12	3.02	0.07	2.95	5.35	3.31	0.02	2.79										
100	4.97	2.99	0.03	2.86	5.36	3.28	0.01	2.65										
105	4.76	2.97	0.03	2.80	5.18	3.21	0.02	2.42										
110	4.48	2.71	0.03	2.66	4.93	3.07	0.03	2.09										
115	4.17	2.35	0.03	2.20	4.66	2.71	0.03	1.80										
120	3.79	1.54	0.03	1.97	4.34	2.43	0.05	1.05										
125	3.28	0.50	0.03	0.99	3.92	1.38	0.05	0.23										
130	1.91	0.09	0.03	0.17	3.26	0.34	0.05	0.08										
135	0.55	0.09	0.03	0.10	1.63	0.11	0.06	0.08										
140	0.20	0.09	0.03	0.10	0.30	0.09	0.07	0.08										
145	0.17	0.09	0.03	0.09	0.10	0.09	0.07	0.08										
150	0.14	0.09	0.03	0.09	0.10	0.09	0.08	0.08										
155	0.13	0.09	0.05	0.09	0.10	0.09	0.08	0.08										
160	0.12	0.09	0.07	0.10	0.10	0.11	0.09	0.08										
165	0.12	0.10	0.09	0.10	0.10	0.11	0.10	0.08										
170	0.12	0.10	0.10	0.09	0.10	0.11	0.10	0.09										
175	0.11	0.10	0.10	0.09	0.10	0.11	0.10	0.09										
180	0.10	0.10	0.10	0.09	0.09	0.11	0.10	0.10										

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: