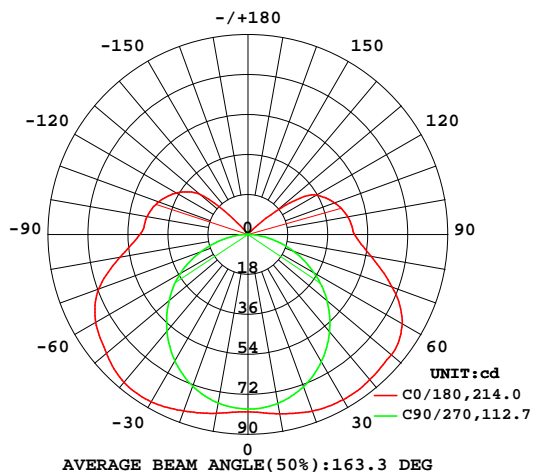


LUMINAIRE PHOTOMETRIC TEST REPORT

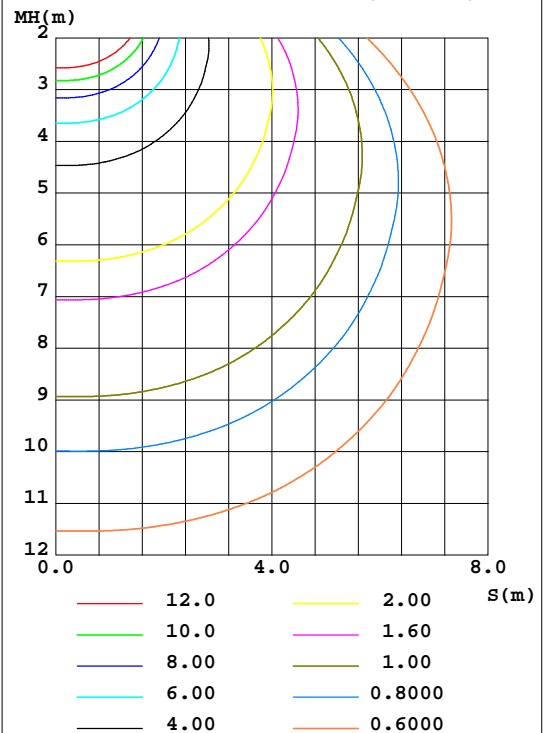
Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:450.51x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0G24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 46.93 lm/W			
MODEL	NMT1010	I _{max} (cd)	87.31	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)	450.51	h UP,DN(C0-180)	10.1,39.8
NOMINAL FLUX(lm)	450.51	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	10.3,39.8
LAMPS INSIDE	1	h up(%)	20.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	79.6	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:

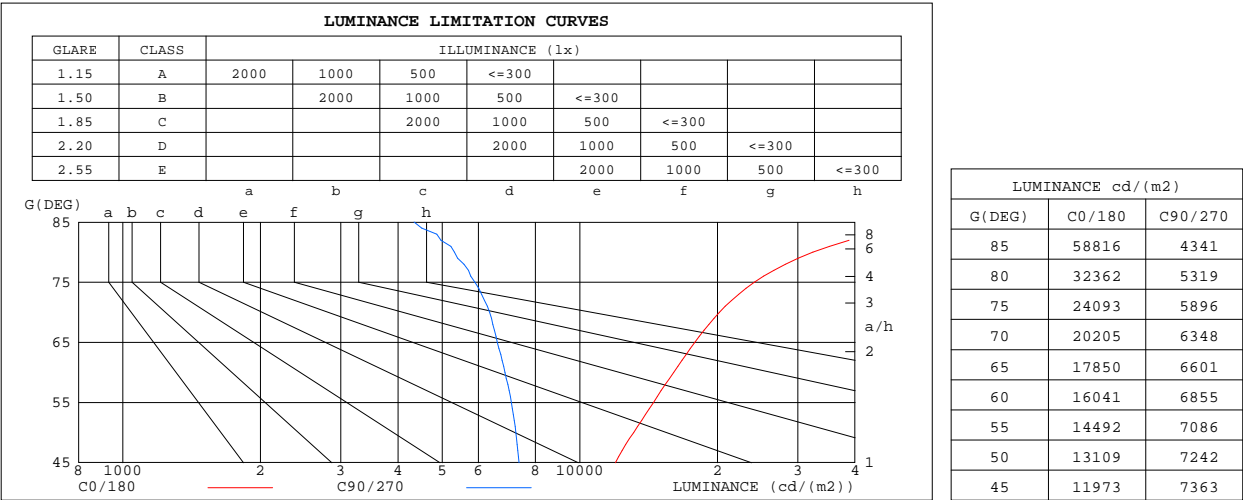
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	81.94	79.88	77.22	78.79	81.72	79.68	77.05	78.76	0- 10	7.565	7.565	1.68,1.68
20	84.62	79.73	72.96	78.46	84.54	79.66	72.74	78.37	10- 20	22.46	30.02	6.66,6.66
30	85.84	78.25	66.16	76.77	87.02	78.26	65.78	76.36	20- 30	36.07	66.09	14.7,14.7
40	85.31	74.60	57.20	73.62	86.89	75.28	56.78	72.28	30- 40	47.03	113.1	25.1,25.1
50	84.26	69.19	46.55	68.11	83.19	69.84	46.42	66.38	40- 50	54.04	167.2	37.1,37.1
60	80.20	63.42	34.27	60.17	79.18	62.20	35.19	60.30	50- 60	56.62	223.8	49.7,49.7
70	69.11	54.34	21.71	51.87	71.50	53.87	22.38	51.20	60- 70	54.26	278.0	61.7,61.7
80	56.20	41.50	9.236	40.37	58.45	42.37	9.779	38.71	70- 80	45.70	323.7	71.9,71.9
90	48.02	31.62	1.029	30.97	48.73	32.63	1.639	30.17	80- 90	34.84	358.6	79.6,79.6
100	45.74	29.74	0.4151	28.48	46.23	30.16	0.2472	27.44	90-100	29.31	387.9	86.1,86.1
110	41.62	26.46	0.3941	26.65	42.92	28.20	0.4011	22.77	100-110	26.41	414.3	92,92
120	35.56	13.49	0.5942	19.72	37.38	22.13	0.5477	9.807	110-120	20.81	435.1	96.6,96.6
130	16.25	1.475	0.7147	2.522	28.12	3.681	0.6813	1.029	120-130	10.83	446.0	99,99
140	1.977	1.202	0.8283	1.249	3.636	1.095	0.7685	0.9952	130-140	2.843	448.8	99.6,99.6
150	1.463	1.089	0.9417	1.189	1.256	1.122	0.8884	0.9685	140-150	0.7357	449.5	99.8,99.8
160	1.329	1.095	1.055	1.236	1.242	1.195	1.082	0.9751	150-160	0.5206	450.1	99.9,99.9
170	1.296	1.229	1.256	1.309	1.129	1.262	1.263	1.142	160-170	0.3371	450.4	100,100
180	1.182	1.369	1.356	1.369	1.149	1.369	1.403	1.363	170-180	0.1207	450.5	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
 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:450.5lx1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0G24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



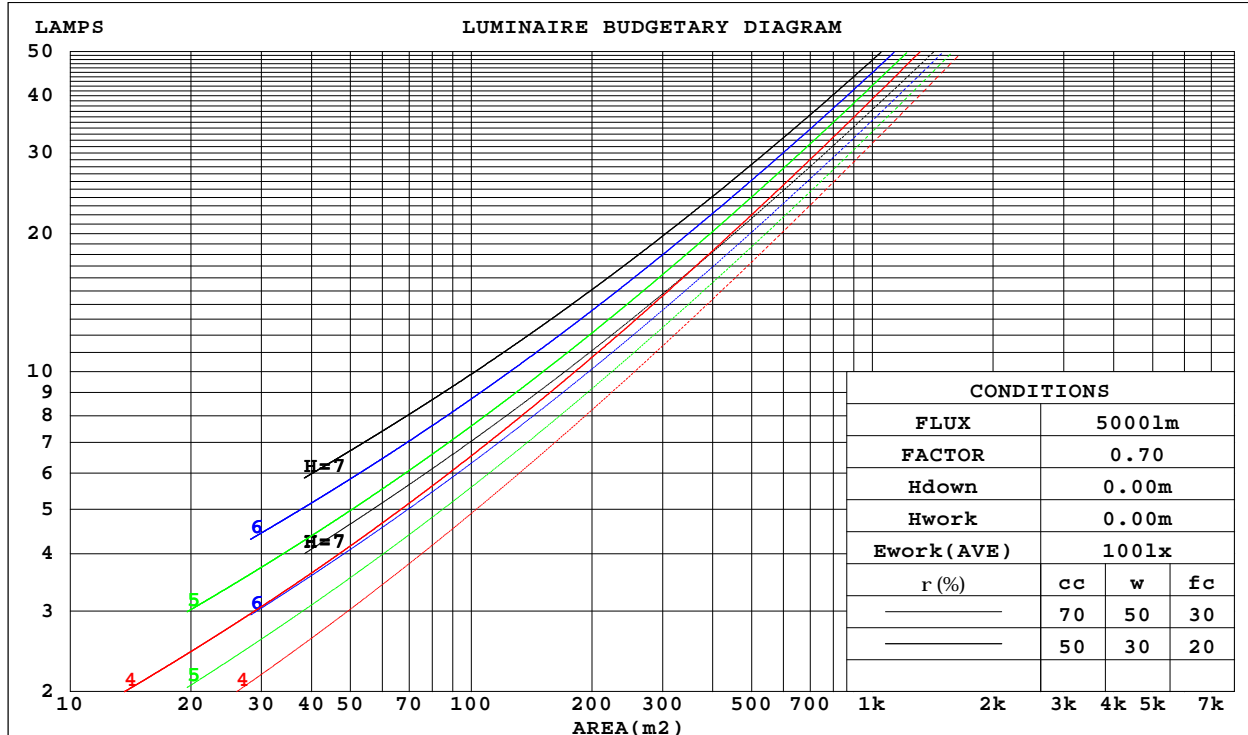
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-10-15

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:450.5lx1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0G24NSN000CC0100	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
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:450.5lx1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0G24NSN000CC0100	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	.395	.225	.071	.382	.218	.069	.356	.205	.065	.333	.192	.062	.312	.181	.058	
2.0	.341	.187	.057	.329	.181	.056	.306	.170	.053	.285	.160	.050	.266	.150	.047	
3.0	.302	.161	.048	.291	.156	.047	.271	.147	.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	.103	.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	.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	.346	.346	.346	.296	.296	.296	.202	.202	.202	.116	.116	.116	.037	.037	.037	
1.0	.343	.312	.284	.293	.268	.245	.201	.184	.169	.116	.107	.098	.037	.034	.032	
2.0	.337	.289	.250	.288	.249	.216	.198	.172	.151	.114	.100	.088	.037	.032	.029	
3.0	.329	.273	.228	.282	.236	.198	.194	.164	.139	.112	.096	.082	.036	.031	.027	
4.0	.322	.261	.214	.276	.225	.186	.190	.157	.131	.110	.092	.078	.035	.030	.026	
5.0	.314	.251	.205	.270	.217	.178	.186	.152	.126	.108	.089	.075	.035	.029	.025	
6.0	.307	.243	.198	.263	.211	.172	.182	.147	.122	.105	.087	.072	.034	.028	.024	
7.0	.299	.237	.193	.258	.205	.168	.178	.144	.119	.103	.085	.071	.033	.028	.023	
8.0	.293	.231	.189	.252	.201	.165	.174	.141	.117	.101	.083	.070	.033	.027	.023	
9.0	.286	.226	.186	.247	.197	.162	.171	.138	.115	.100	.082	.069	.032	.027	.023	
10.0	.280	.222	.184	.242	.193	.160	.168	.136	.114	.098	.080	.068	.032	.026	.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:450.51x1 lm											
NAME: NMT1010					TYPE:			WEIGHT:			
SPEC.:NMT1010-0G24NSN000CC0100					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	24.3	25.7	24.8	26.2	26.8	21.4	22.8	21.9	23.3	23.9	
	3H	27.1	28.3	27.6	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	30.1	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	24.9	26.0	26.7
	12H	31.9	33.0	32.6	33.6	34.3	24.3	25.4	24.9	26.0	26.7
4H	2H	24.9	26.1	25.5	26.7	27.3	22.9	24.1	23.5	24.7	25.4
	3H	27.8	28.9	28.5	29.5	30.3	24.8	25.9	25.4	26.5	27.2
	4H	29.4	30.4	30.1	31.1	31.8	25.6	26.6	26.3	27.3	28.0
	6H	31.2	32.1	31.9	32.7	33.5	26.3	27.2	27.0	27.9	28.7
	8H	32.2	33.0	32.9	33.7	34.5	26.6	27.4	27.2	28.1	28.9
	12H	33.3	34.1	34.0	34.8	35.6	26.7	27.5	27.4	28.2	29.0
8H	4H	29.8	30.6	30.5	31.3	32.1	26.9	27.7	27.5	28.4	29.2
	6H	31.8	32.5	32.5	33.2	34.1	27.9	28.6	28.7	29.4	30.2
	8H	33.0	33.6	33.7	34.3	35.2	28.4	29.0	29.1	29.8	30.6
	12H	34.4	34.9	35.1	35.7	36.6	28.8	29.3	29.5	30.1	31.0
12H	4H	29.8	30.6	30.5	31.3	32.1	27.2	27.9	27.9	28.6	29.5
	6H	31.9	32.6	32.7	33.3	34.2	28.5	29.1	29.3	29.9	30.7
	8H	33.2	33.8	34.0	34.5	35.4	29.2	29.7	29.9	30.5	31.4
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, 450.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.8)

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:450.5lx1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0G24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

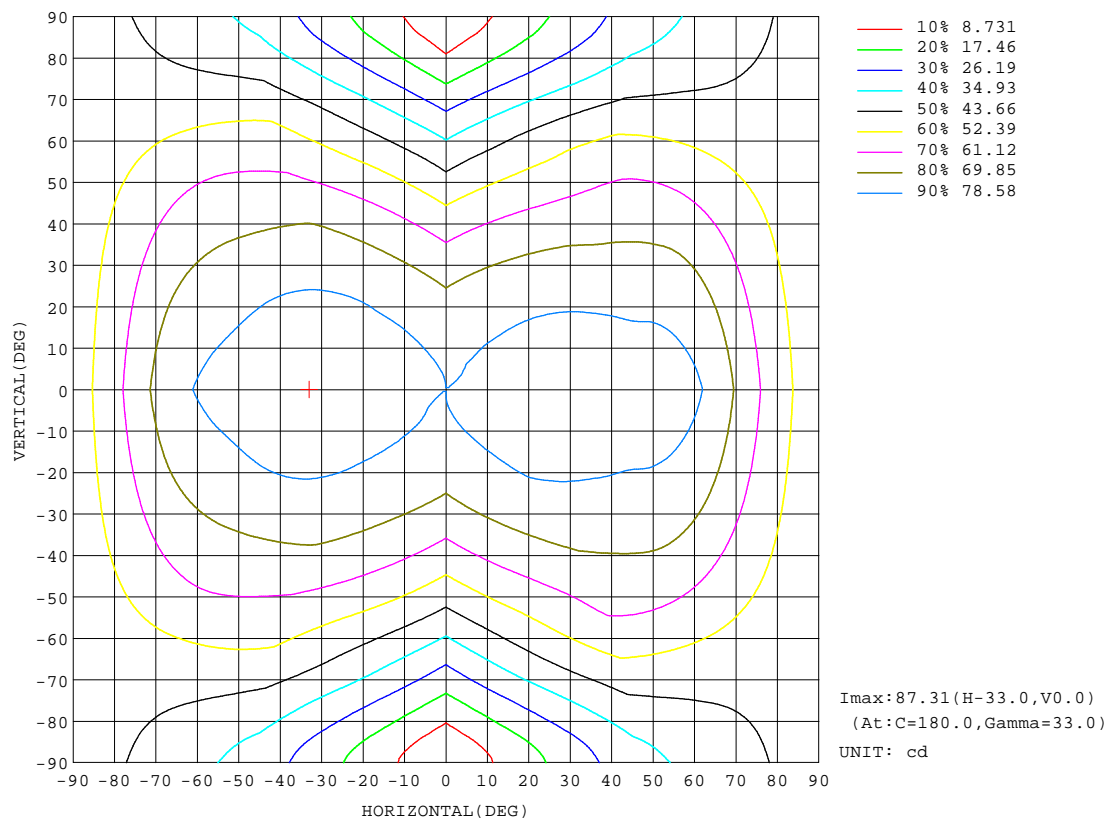
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	33	25	44	32	25	42	31	25	18
0.80	55	41	33	53	40	32	50	39	32	24
1.00	62	49	40	60	48	40	57	48	38	30
1.25	69	56	47	67	55	46	62	52	45	35
1.50	75	62	53	72	60	52	67	57	50	39
2.00	82	70	62	79	68	60	73	64	57	45
2.50	87	76	68	83	74	66	77	69	62	49
3.00	91	81	73	87	78	71	80	73	67	53
4.00	96	87	80	91	84	78	84	78	73	58
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:450.5lx1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0G24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



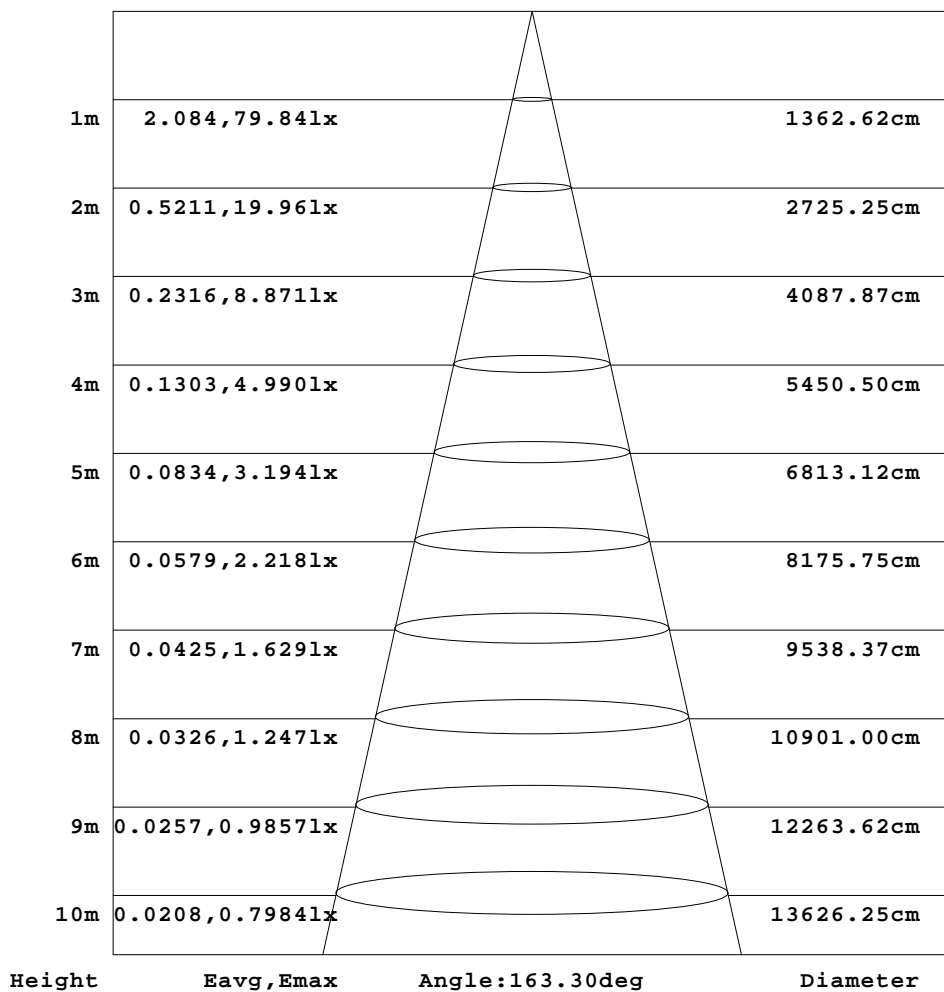
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-10-15

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:450.5lx1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0G24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

Flux out:331.5 lm



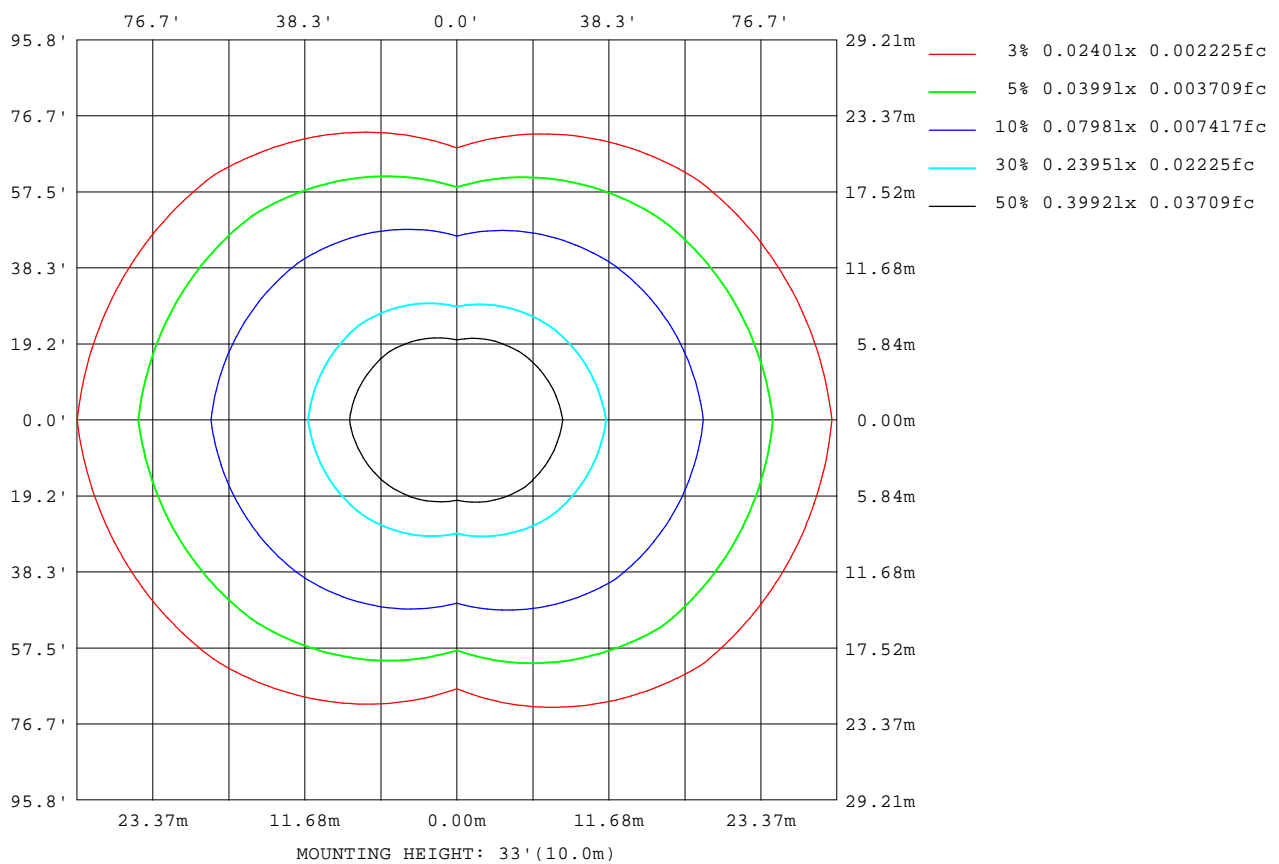
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

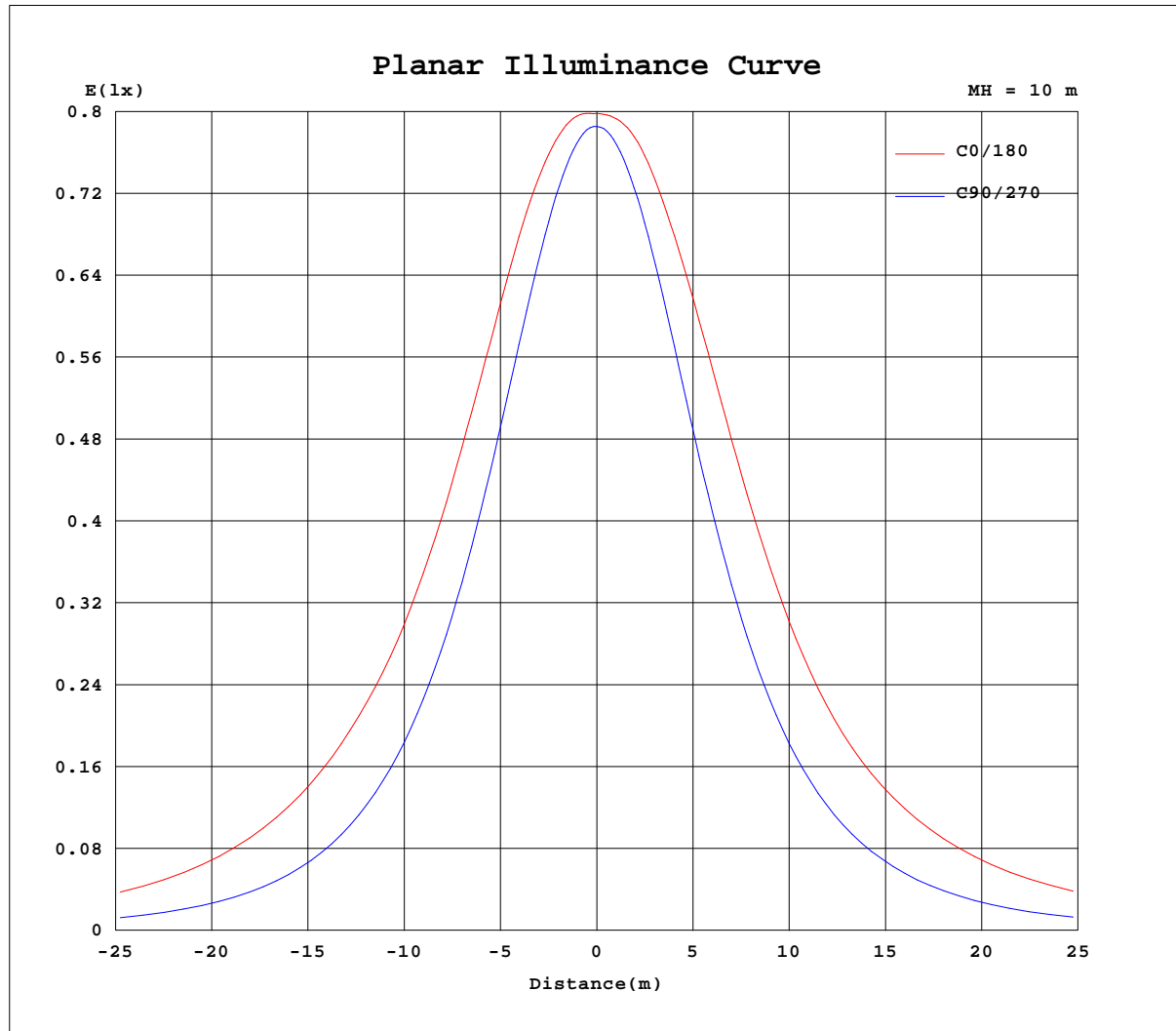
Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:450.5lx1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0G24NSN000CC0100	DIM.: 1000*10*10mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:



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:450.51x1 lm		
NAME: NMT1010	TYPE:	WEIGHT:
SPEC.:NMT1010-0G24NSN000CC0100	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	79.8	79.3	78.6	78.4	79.8	79.3	78.6	78.4										
5	80.6	79.5	78.3	78.5	80.4	79.3	78.2	78.5										
10	81.9	79.9	77.2	78.8	81.7	79.7	77.0	78.8										
15	83.3	79.9	75.4	78.8	83.2	79.8	75.2	78.8										
20	84.6	79.7	73.0	78.5	84.5	79.7	72.7	78.4										
25	85.5	79.2	69.9	77.7	85.9	79.1	69.5	77.6										
30	85.8	78.3	66.2	76.8	87.0	78.3	65.8	76.4										
35	85.9	76.7	61.9	75.4	87.3	77.0	61.5	74.6										
40	85.3	74.6	57.2	73.6	86.9	75.3	56.8	72.3										
45	84.7	72.1	52.1	71.2	85.4	72.9	51.7	69.5										
50	84.3	69.2	46.6	68.1	83.2	69.8	46.4	66.4										
55	83.1	66.2	40.6	64.4	81.2	66.2	41.0	63.3										
60	80.2	63.4	34.3	60.2	79.2	62.2	35.2	60.3										
65	75.4	59.7	27.9	56.1	76.0	58.2	29.0	56.6										
70	69.1	54.3	21.7	51.9	71.5	53.9	22.4	51.2										
75	62.4	47.9	15.3	46.3	65.1	48.3	15.8	44.7										
80	56.2	41.5	9.24	40.4	58.4	42.4	9.78	38.7										
85	51.3	35.4	3.78	34.8	52.7	36.5	4.97	33.4										
90	48.0	31.6	1.03	31.0	48.7	32.6	1.64	30.2										
95	46.9	30.0	0.71	29.1	46.9	30.8	0.96	28.7										
100	45.7	29.7	0.42	28.5	46.2	30.2	0.25	27.4										
105	44.0	29.1	0.35	27.9	44.9	29.5	0.31	24.4										
110	41.6	26.5	0.39	26.6	42.9	28.2	0.40	22.8										
115	38.9	23.0	0.51	22.2	40.4	25.1	0.47	18.5										
120	35.6	13.5	0.59	19.7	37.4	22.1	0.55	9.81										
125	28.6	4.40	0.64	11.0	33.4	13.7	0.61	2.47										
130	16.2	1.48	0.71	2.52	28.1	3.68	0.68	1.03										
135	4.91	1.30	0.79	1.34	15.1	1.23	0.73	1.01										
140	1.98	1.20	0.83	1.25	3.64	1.10	0.77	1.00										
145	1.63	1.10	0.88	1.18	1.34	1.08	0.82	0.98										
150	1.46	1.09	0.94	1.19	1.26	1.12	0.89	0.97										
155	1.36	1.09	0.99	1.20	1.26	1.16	0.98	0.97										
160	1.33	1.10	1.06	1.24	1.24	1.20	1.08	0.98										
165	1.31	1.14	1.15	1.27	1.21	1.24	1.18	1.06										
170	1.30	1.23	1.26	1.31	1.13	1.26	1.26	1.14										
175	1.20	1.33	1.30	1.36	1.12	1.29	1.36	1.27										
180	1.18	1.37	1.36	1.37	1.15	1.37	1.40	1.36										

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: