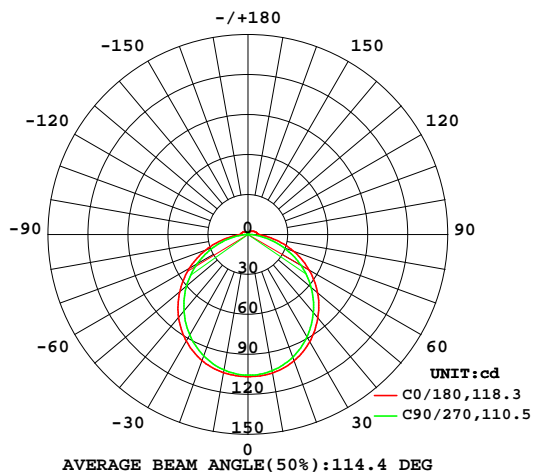


LUMINAIRE PHOTOMETRIC TEST REPORT

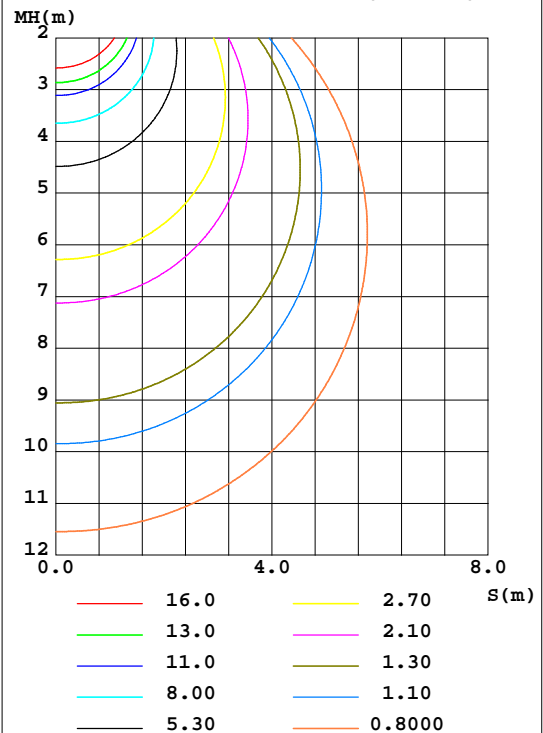
Test:U:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 35.09 lm/W			
MODEL	NMS1217-Plus	I _{max} (cd)	106.6	S/MH(C0/180)	1.29
NOMINAL POWER(W)	9.6	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	333.38	h UP,DN(C0-180)	2.7,47.9
NOMINAL FLUX(lm)	333.38	CIE CLASS	DIRECT	h UP,DN(C180-360)	2.4,47.0
LAMPS INSIDE	1	h up(%)	5.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	48	h down(%)	94.9	CIBSE SHR MAX	1.35

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:2020-06-15

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:

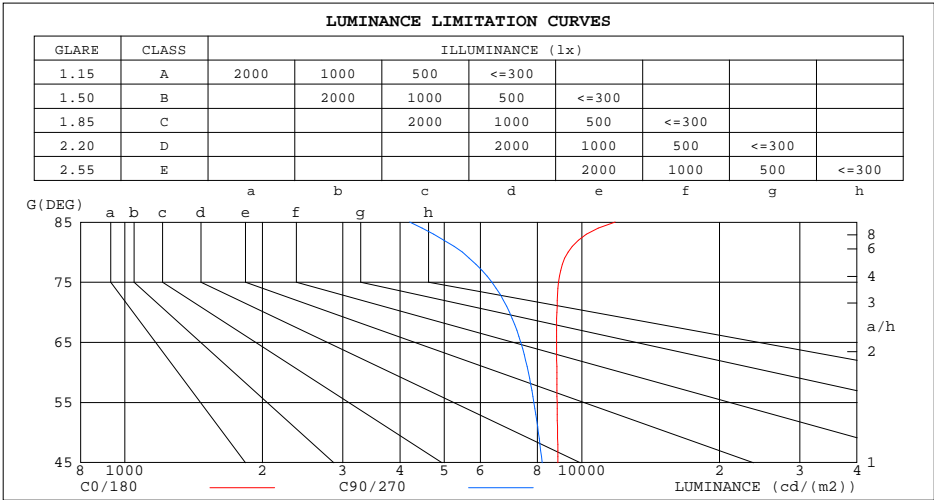
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	105.6	105.3	103.8	103.4	105.3	103.8	103.3	104.5	0- 10	10.04	10.04	3.01,3.01
20	100.9	101.2	98.10	97.51	100.7	97.78	96.98	100.2	10- 20	28.86	38.90	11.7,11.7
30	92.86	93.48	88.71	88.21	92.59	88.29	87.32	92.49	20- 30	43.90	82.80	24.8,24.8
40	81.70	82.69	76.43	75.92	81.18	75.89	74.84	81.70	30- 40	53.16	136.0	40.8,40.8
50	68.26	69.32	61.98	61.17	66.97	61.10	60.26	68.54	40- 50	55.55	191.5	57.4,57.4
60	52.91	54.05	45.84	44.75	50.82	44.58	44.11	53.51	50- 60	50.89	242.4	72.7,72.7
70	36.18	37.38	28.51	27.11	33.25	26.99	26.93	37.10	60- 70	39.90	282.3	84.7,84.7
80	19.43	20.09	11.43	10.59	15.92	10.70	10.32	20.45	70- 80	24.39	306.7	92,92
90	8.257	6.930	0.7247	4.068	5.937	4.016	0.6546	7.210	80- 90	9.525	316.2	94.9,94.9
100	6.974	4.827	0.3426	3.513	5.203	3.528	0.5273	4.636	90-100	4.461	320.7	96.2,96.2
110	6.047	3.987	0.5272	2.944	4.654	3.013	0.5019	4.148	100-110	3.631	324.3	97.3,97.3
120	5.071	2.952	0.7479	2.322	3.954	2.371	0.7081	3.237	110-120	2.960	327.3	98.2,98.2
130	3.991	2.344	0.9614	1.977	3.172	1.984	0.8752	2.432	120-130	2.180	329.4	98.8,98.8
140	3.207	1.983	1.136	1.289	2.638	1.323	1.002	1.884	130-140	1.581	331.0	99.3,99.3
150	2.505	1.489	1.249	1.403	1.619	1.329	1.189	1.544	140-150	1.063	332.1	99.6,99.6
160	1.825	1.443	1.469	1.550	1.436	1.483	1.443	1.309	150-160	0.6899	332.8	99.8,99.8
170	1.710	1.603	1.683	1.710	1.490	1.656	1.717	1.503	160-170	0.4408	333.2	100,100
180	1.596	1.837	1.917	1.897	1.590	1.817	1.924	1.897	170-180	0.1614	333.4	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:2020-06-15

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:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:



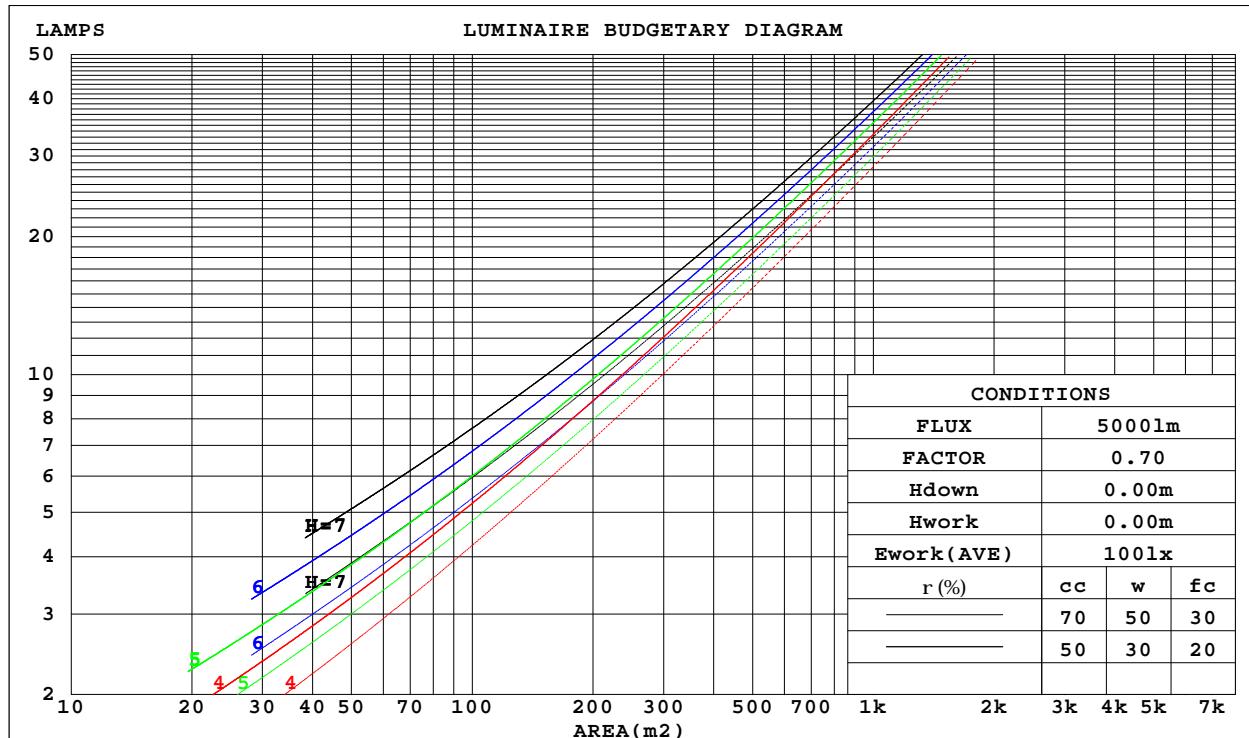
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-06-15

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:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	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:2020-06-15

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:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	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															

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	.230	.230	.230	.196	.196	.196	.134	.134	.134	.077	.077	.077	.025	.025	.025		
1.0	.221	.196	.173	.189	.168	.149	.129	.115	.103	.074	.067	.060	.024	.022	.019		
2.0	.213	.172	.137	.182	.148	.118	.125	.102	.083	.072	.059	.048	.023	.019	.016		
3.0	.205	.154	.114	.176	.133	.099	.121	.093	.069	.070	.054	.041	.022	.018	.013		
4.0	.198	.141	.098	.170	.122	.085	.117	.085	.060	.067	.050	.036	.022	.016	.012		
5.0	.190	.131	.087	.163	.113	.076	.113	.079	.054	.065	.046	.032	.021	.015	.010		
6.0	.183	.123	.079	.157	.106	.069	.109	.074	.049	.063	.044	.029	.020	.014	.010		
7.0	.176	.116	.074	.152	.100	.064	.105	.070	.046	.061	.042	.027	.020	.014	.009		
8.0	.170	.110	.069	.146	.096	.060	.101	.067	.043	.059	.040	.026	.019	.013	.008		
9.0	.164	.105	.066	.141	.091	.057	.098	.064	.041	.057	.038	.024	.018	.012	.008		
10.0	.158	.101	.063	.136	.088	.055	.094	.062	.039	.055	.037	.023	.018	.012	.008		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-06-15

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:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm										
NAME: NMS1217-Plus					TYPE:			WEIGHT:		
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus					DIM.: 1000*12*17			SERIAL No.:01		
MFR.: COLORS					SUR.:1000*12			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	24.6	26.0	26.3	23.8	25.3	24.1	25.6	25.9
3H	26.1	27.4	26.4	27.7	28.1	25.3	26.7	25.7	27.0	27.3
4H	26.8	28.1	27.2	28.5	28.8	25.9	27.2	26.3	27.5	27.9
6H	27.5	28.7	27.9	29.1	29.5	26.3	27.5	26.7	27.9	28.3
8H	27.8	29.0	28.3	29.4	29.8	26.4	27.6	26.8	28.0	28.4
12H	28.1	29.3	28.6	29.6	30.1	26.5	27.6	26.9	28.0	28.4
4H 2H	25.0	26.2	25.3	26.6	26.9	24.6	25.9	25.0	26.2	26.6
3H	26.9	28.1	27.4	28.4	28.9	26.3	27.5	26.8	27.8	28.3
4H	27.9	28.9	28.3	29.3	29.8	27.1	28.1	27.5	28.5	29.0
6H	28.7	29.6	29.2	30.1	30.6	27.6	28.5	28.1	29.0	29.5
8H	29.1	29.9	29.6	30.4	30.9	27.8	28.6	28.3	29.1	29.6
12H	29.5	30.2	30.0	30.7	31.2	27.9	28.7	28.4	29.1	29.7
8H 4H	28.2	29.1	28.7	29.5	30.0	27.5	28.4	28.0	28.9	29.3
6H	29.3	30.0	29.8	30.5	31.0	28.3	29.0	28.8	29.5	30.1
8H	29.8	30.4	30.3	30.9	31.5	28.6	29.2	29.1	29.7	30.3
12H	30.3	30.9	30.9	31.4	32.0	28.8	29.3	29.4	29.9	30.5
12H 4H	28.2	29.0	28.8	29.5	30.0	27.6	28.4	28.1	28.9	29.4
6H	29.4	30.0	29.9	30.5	31.1	28.5	29.1	29.0	29.6	30.2
8H	30.0	30.5	30.5	31.0	31.6	28.8	29.4	29.4	29.9	30.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.1 / - 0.4					+ 0.2 / - 0.5				

CIE Pub.117, 333.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.8)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-06-15

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:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

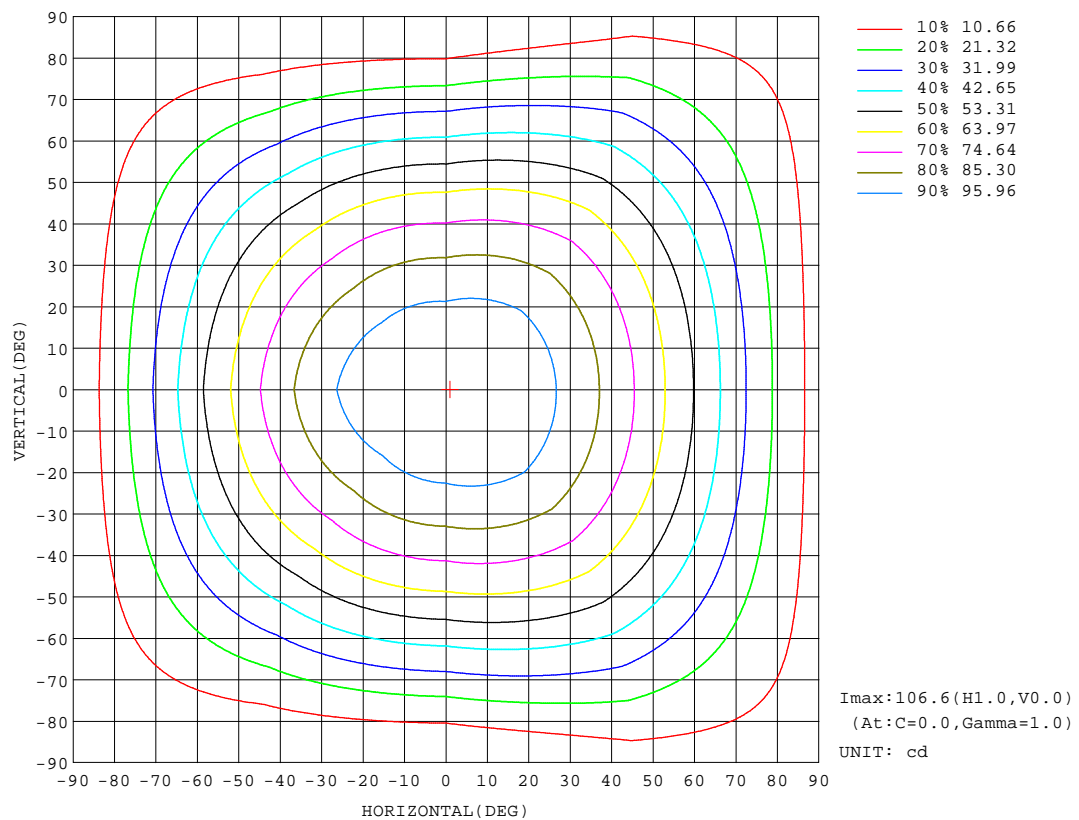
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	54	43	36	53	42	36	29
0.80	65	53	46	64	53	45	62	52	45	38
1.00	73	62	54	72	61	54	69	62	53	46
1.25	80	69	62	79	68	61	75	67	60	52
1.50	85	75	68	83	74	67	80	72	66	57
2.00	92	83	76	90	82	75	86	79	74	65
2.50	96	88	82	94	86	80	89	83	78	69
3.00	100	92	87	97	91	85	92	87	82	73
4.00	104	98	93	101	96	91	96	92	88	77
5.00	107	101	97	104	99	95	98	94	91	80
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:2020-06-15

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:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:



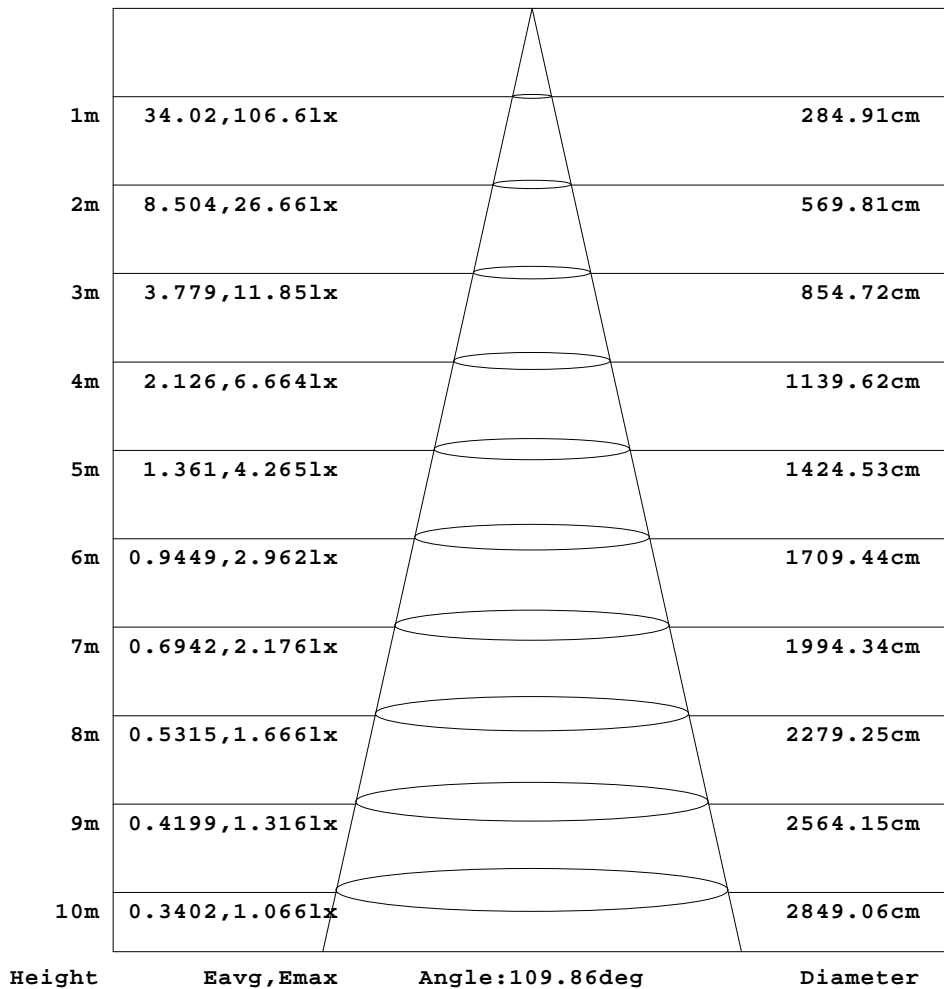
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-06-15

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:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

Flux out:218.0 lm



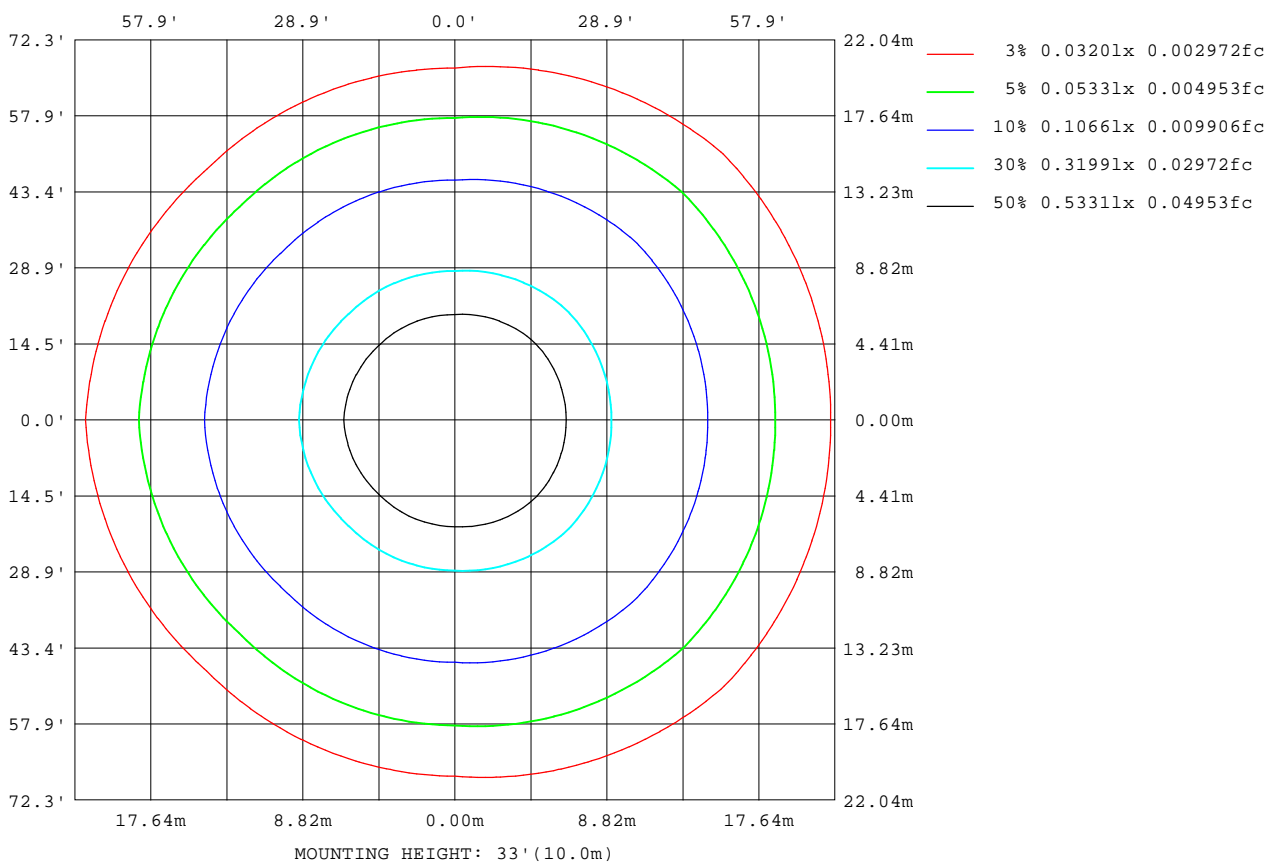
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-06-15

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

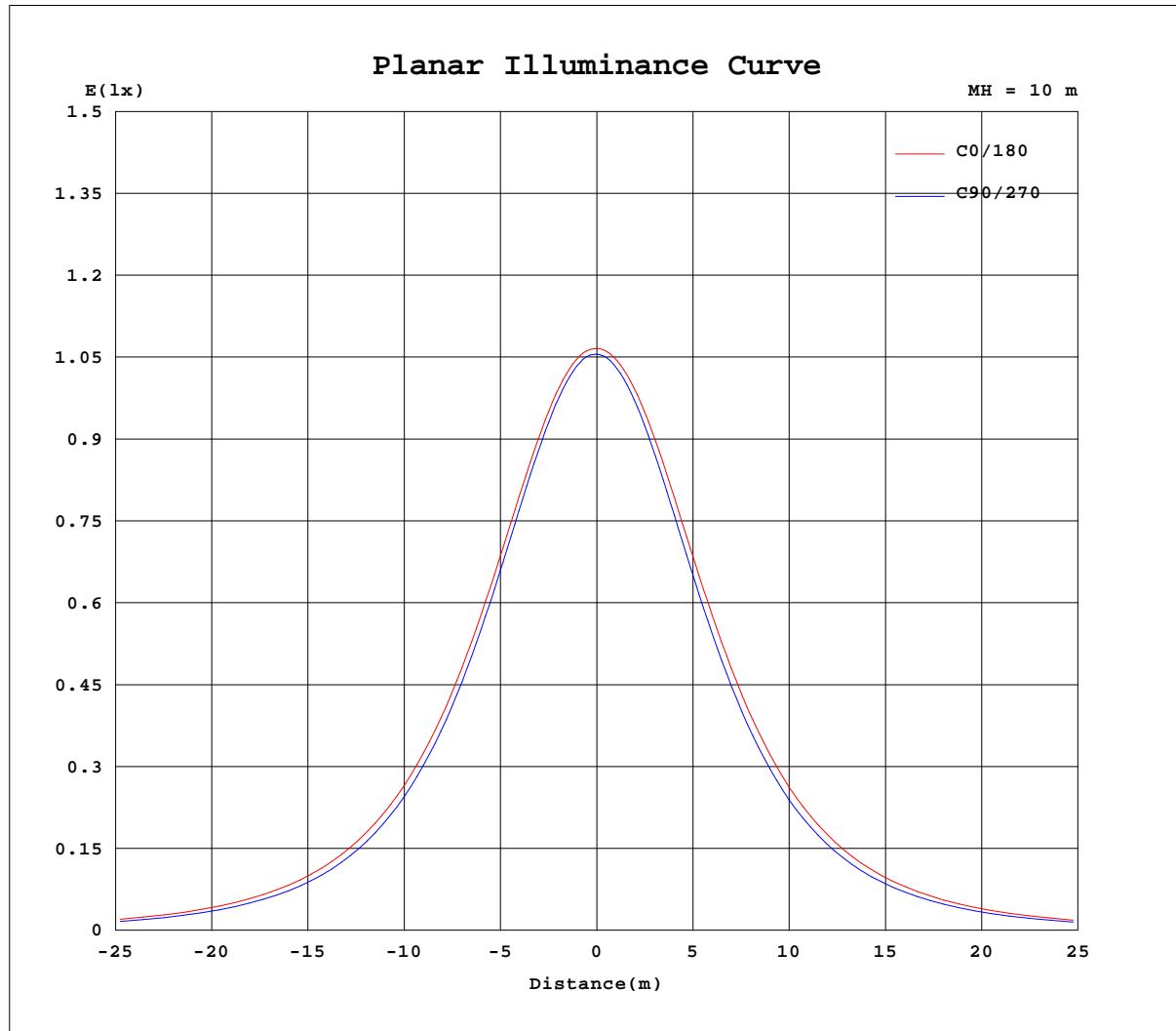
Test:U:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-06-15

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: 2020-06-15

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:48.00V I:0.1990A P:9.500W PF:1.000 Freq:0Hz Lamp Flux:333.38x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-9LWNW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

Table--1

UNIT: cd

C(DEC) g (DEC)	0	45	90	135	180	225	270	315										
0	107	106	106	106	107	106	106	106										
5	106	106	105	105	106	105	105	105										
10	106	105	104	103	105	104	103	104										
15	104	104	101	101	104	101	101	103										
20	101	101	98.1	97.5	101	97.8	97.0	100										
25	97.3	97.8	93.8	93.3	97.1	93.4	92.5	96.8										
30	92.9	93.5	88.7	88.2	92.6	88.3	87.3	92.5										
35	87.6	88.4	82.9	82.4	87.3	82.4	81.4	87.5										
40	81.7	82.7	76.4	75.9	81.2	75.9	74.8	81.7										
45	75.2	76.3	69.5	68.8	74.3	68.8	67.8	75.3										
50	68.3	69.3	62.0	61.2	67.0	61.1	60.3	68.5										
55	60.8	61.9	54.1	53.1	59.1	53.0	52.3	61.2										
60	52.9	54.0	45.8	44.8	50.8	44.6	44.1	53.5										
65	44.7	45.9	37.3	36.0	42.2	35.8	35.6	45.4										
70	36.2	37.4	28.5	27.1	33.3	27.0	26.9	37.1										
75	27.6	28.7	19.8	18.4	24.4	18.4	18.4	28.7										
80	19.4	20.1	11.4	10.6	15.9	10.7	10.3	20.4										
85	12.4	12.3	4.39	5.38	9.13	5.42	3.71	12.8										
90	8.26	6.93	0.72	4.07	5.94	4.02	0.65	7.21										
95	7.42	5.21	0.65	3.81	5.44	3.77	0.65	5.40										
100	6.97	4.83	0.34	3.51	5.20	3.53	0.53	4.64										
105	6.52	4.42	0.39	3.23	4.92	3.28	0.39	4.10										
110	6.05	3.99	0.53	2.94	4.65	3.01	0.50	4.15										
115	5.57	3.51	0.62	2.71	4.31	2.63	0.61	4.01										
120	5.07	2.95	0.75	2.32	3.95	2.37	0.71	3.24										
125	4.52	2.53	0.86	2.11	3.61	2.16	0.79	2.77										
130	3.99	2.34	0.96	1.98	3.17	1.98	0.88	2.43										
135	3.60	2.24	1.05	1.79	2.90	1.84	0.94	2.15										
140	3.21	1.98	1.14	1.29	2.64	1.32	1.00	1.88										
145	2.83	1.80	1.17	1.32	2.31	1.28	1.07	1.73										
150	2.51	1.49	1.25	1.40	1.62	1.33	1.19	1.54										
155	2.05	1.40	1.35	1.48	1.40	1.42	1.32	1.39										
160	1.82	1.44	1.47	1.55	1.44	1.48	1.44	1.31										
165	1.80	1.50	1.57	1.62	1.49	1.58	1.58	1.36										
170	1.71	1.60	1.68	1.71	1.49	1.66	1.72	1.50										
175	1.60	1.74	1.80	1.80	1.50	1.71	1.84	1.69										
180	1.60	1.84	1.92	1.90	1.59	1.82	1.92	1.90										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-06-15

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: