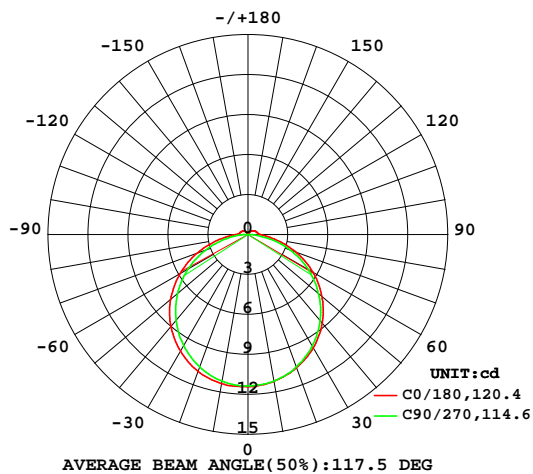


LUMINAIRE PHOTOMETRIC TEST REPORT

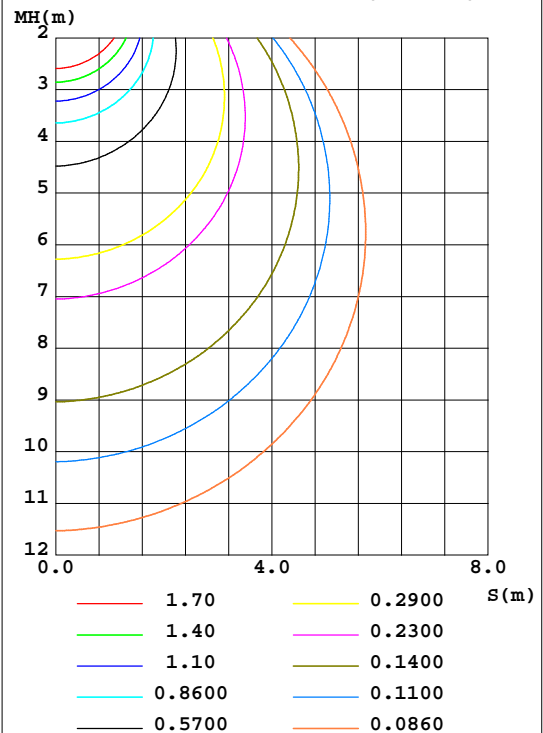
Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 4.50 lm/W
MODEL	NMS1217	I _{max} (cd)	11.43	S/MH(C0/180)	1.31	
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.26	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	36.464	h UP,DN(C0-180)	2.1,47.3	
NOMINAL FLUX(lm)	36.4642	CIE CLASS	DIRECT	h UP,DN(C180-360)	2.0,48.5	
LAMPS INSIDE	1	h up(%)	4.2	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	24	h down(%)	95.8	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:COLORS
 Test Date:2019-04-03

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

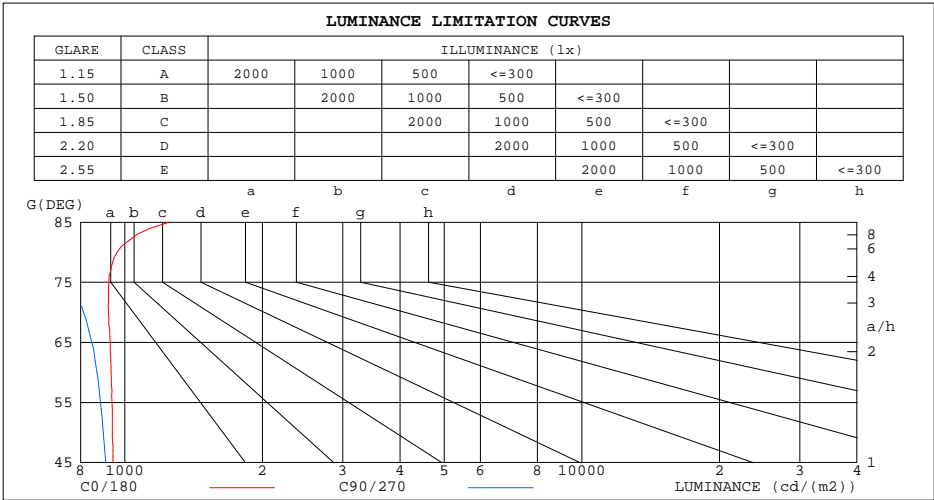
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	11.20	11.17	11.37	11.18					0~ 10	1.080	1.080	2.96,2.96
20	10.65	10.59	10.95	10.59					10~ 20	3.108	4.188	11.5,11.5
30	9.821	9.657	10.12	9.643					20~ 30	4.745	8.932	24.5,24.5
40	8.681	8.428	9.004	8.402					30~ 40	5.791	14.72	40.4,40.4
50	7.246	6.920	7.586	6.895					40~ 50	6.116	20.84	57.2,57.2
60	5.604	5.214	5.890	5.193					50~ 60	5.669	26.51	72.7,72.7
70	3.780	3.337	4.018	3.327					60~ 70	4.513	31.02	85.1,85.1
80	2.006	1.286	2.170	1.483					70~ 80	2.815	33.84	92.8,92.8
90	0.9127	0	0.8959	0.2574					80~ 90	1.113	34.95	95.8,95.8
100	0.7396	0	0.6528	0					90~100	0.4361	35.38	97,97
110	0.6582	0	0.5859	0					100~110	0.3511	35.74	98,98
120	0.5640	0	0.4951	0					110~120	0.2879	36.02	98.8,98.8
130	0.4450	0	0.4134	0					120~130	0.2169	36.24	99.4,99.4
140	0.3135	0	0.2977	0					130~140	0.1442	36.38	99.8,99.8
150	0.0127	0	0.1817	0					140~150	0.0648	36.45	100,100
160	0	0	0.0407	0					150~160	0.0134	36.46	100,100
170	0	0	0	0					160~170	0.0014	36.46	100,100
180	0	0	0	0					170~180	0	36.46	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	Shielding Angle:



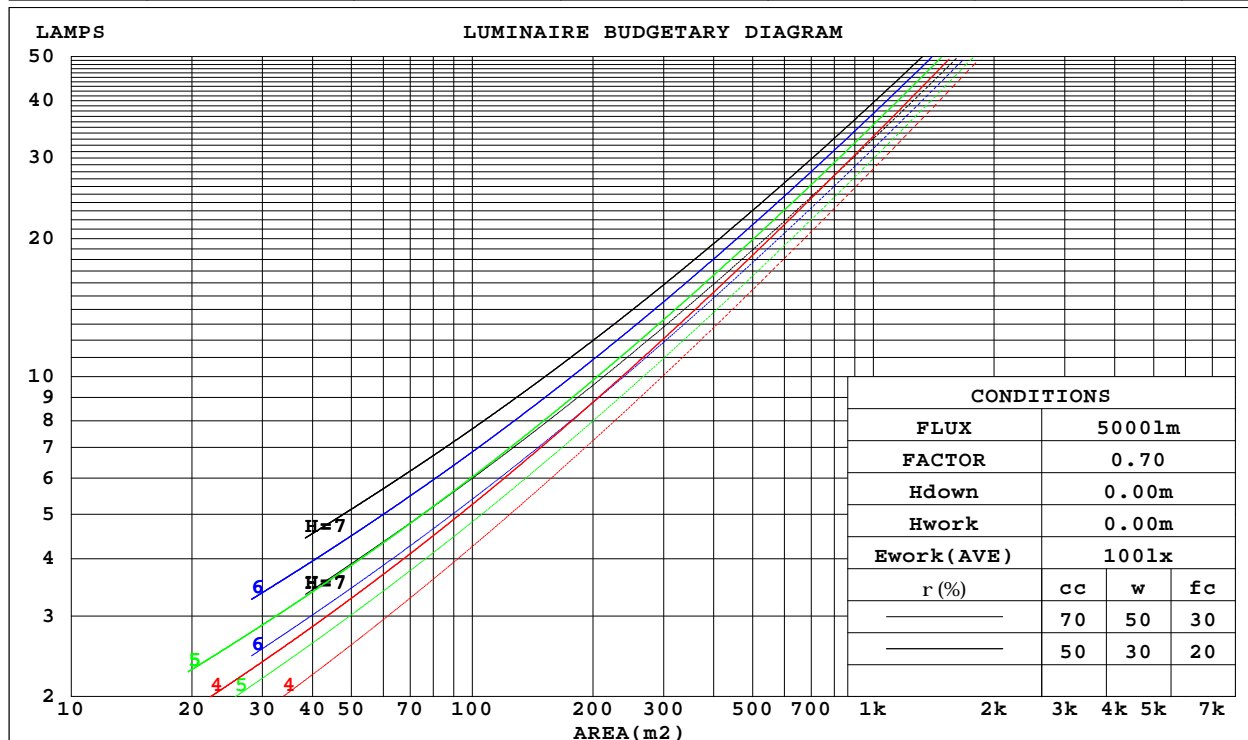
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	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: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:COLORS
 Test Date:2019-04-03

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	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	.328	.186	.059	.319	.182	.058	.304	.174	.056	.289	.167	.054	.276	.160	.052	
2.0	.302	.166	.051	.295	.162	.050	.281	.156	.049	.268	.150	.047	.256	.145	.046	
3.0	.277	.148	.044	.271	.145	.044	.258	.140	.043	.247	.135	.041	.236	.131	.040	
4.0	.254	.132	.039	.248	.130	.038	.237	.126	.038	.227	.122	.037	.217	.118	.036	
5.0	.234	.119	.035	.229	.117	.034	.219	.114	.034	.210	.111	.033	.201	.107	.032	
6.0	.216	.108	.031	.212	.107	.031	.203	.104	.030	.194	.101	.030	.186	.098	.029	
7.0	.201	.099	.028	.197	.098	.028	.189	.095	.027	.181	.093	.027	.174	.090	.027	
8.0	.187	.092	.026	.183	.090	.026	.176	.088	.025	.169	.086	.025	.163	.084	.024	
9.0	.175	.085	.024	.172	.084	.023	.165	.082	.023	.159	.080	.023	.153	.078	.022	
10.0	.165	.079	.022	.161	.078	.022	.155	.076	.021	.150	.074	.021	.144	.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	.222	.222	.222	.190	.190	.190	.130	.130	.130	.074	.074	.074	.024	.024	.024	
1.0	.213	.188	.165	.183	.161	.142	.125	.111	.098	.072	.064	.057	.023	.021	.018	
2.0	.206	.164	.129	.176	.141	.111	.121	.098	.078	.070	.057	.046	.022	.018	.015	
3.0	.198	.147	.106	.170	.127	.092	.117	.088	.064	.067	.051	.038	.022	.017	.012	
4.0	.191	.134	.090	.164	.115	.078	.112	.080	.055	.065	.047	.033	.021	.015	.011	
5.0	.183	.123	.079	.157	.107	.069	.108	.075	.049	.063	.044	.029	.020	.014	.010	
6.0	.176	.115	.071	.151	.100	.062	.104	.070	.044	.061	.041	.026	.020	.013	.009	
7.0	.169	.108	.066	.145	.094	.057	.100	.066	.041	.058	.039	.024	.019	.013	.008	
8.0	.162	.102	.061	.140	.089	.053	.097	.062	.038	.056	.037	.023	.018	.012	.007	
9.0	.156	.098	.058	.135	.085	.051	.093	.060	.036	.054	.035	.021	.018	.012	.007	
10.0	.151	.093	.055	.130	.081	.048	.090	.057	.034	.053	.034	.020	.017	.011	.007	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm											
NAME: NMS1217						TYPE:		WEIGHT:			
SPEC.:NMS1217-OB24NSN050CC0100-PLus						DIM.: 1000*12*17		SERIAL No.:			
MFR.: Colors						SUR.:1000*12*17		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	23.9	25.4	24.3	25.7	26.0	23.7	25.2	24.0	25.5	25.8	
	25.7	27.1	26.0	27.4	27.7	25.3	26.7	25.6	27.0	27.3	
	26.4	27.8	26.8	28.1	28.4	25.9	27.2	26.3	27.6	27.9	
	27.1	28.3	27.5	28.7	29.1	26.3	27.6	26.7	27.9	28.3	
	27.4	28.6	27.8	29.0	29.3	26.4	27.6	26.8	28.0	28.4	
	27.7	28.8	28.1	29.2	29.6	26.4	27.6	26.9	28.0	28.4	
4H	2H	24.6	25.9	24.9	26.2	26.5	24.4	25.7	24.7	26.0	26.3
	3H	26.5	27.6	26.9	28.0	28.4	26.1	27.3	26.6	27.7	28.1
	4H	27.4	28.4	27.8	28.8	29.2	26.9	28.0	27.4	28.4	28.8
	6H	28.2	29.1	28.6	29.5	30.0	27.4	28.4	27.9	28.8	29.3
	8H	28.5	29.4	29.0	29.9	30.3	27.6	28.5	28.1	28.9	29.4
	12H	28.9	29.7	29.4	30.2	30.7	27.7	28.5	28.1	28.9	29.4
8H	4H	27.7	28.5	28.1	29.0	29.4	27.2	28.1	27.7	28.6	29.0
	6H	28.6	29.4	29.1	29.8	30.3	27.9	28.7	28.4	29.1	29.7
	8H	29.1	29.8	29.6	30.2	30.8	28.2	28.8	28.7	29.3	29.9
	12H	29.6	30.2	30.2	30.7	31.3	28.3	28.9	28.9	29.4	30.0
12H	4H	27.7	28.5	28.2	28.9	29.4	27.3	28.1	27.8	28.5	29.0
	6H	28.7	29.3	29.2	29.8	30.4	28.0	28.7	28.5	29.2	29.7
	8H	29.2	29.8	29.8	30.3	30.9	28.3	28.9	28.8	29.4	30.0
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 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 36.46 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -11.5)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	Shielding Angle:

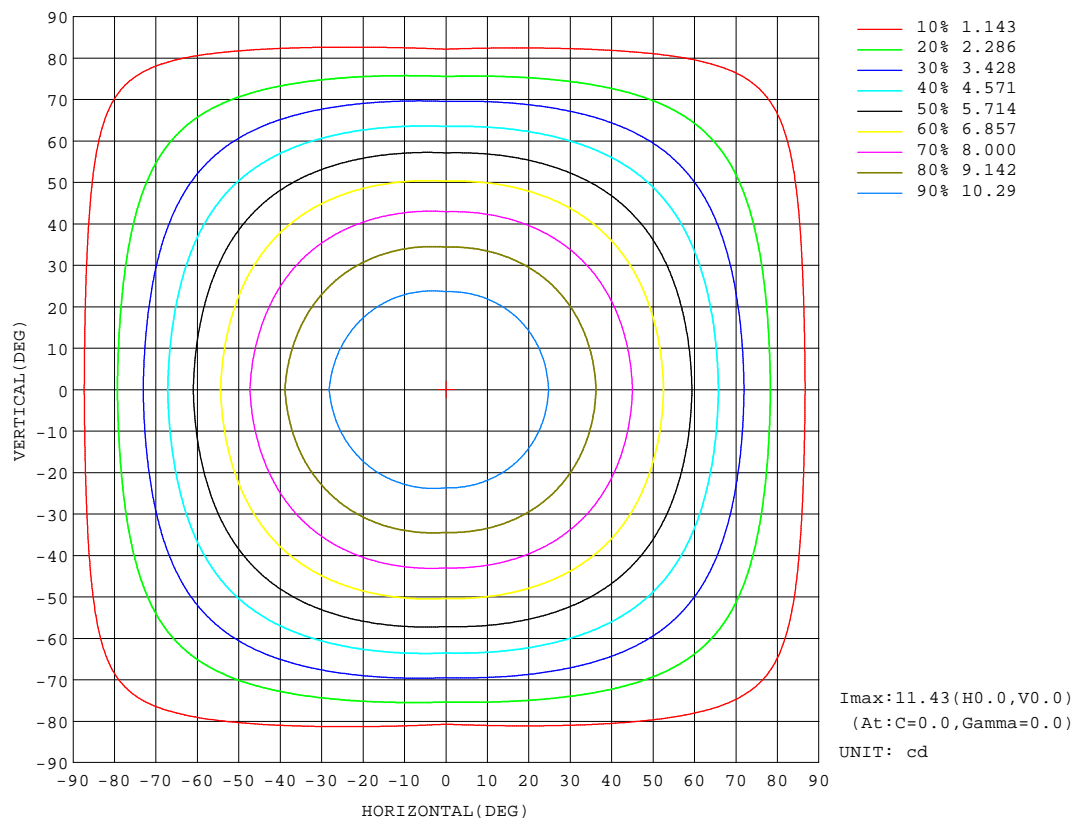
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	54	43	36	53	42	36	29
0.80	65	53	45	64	52	45	62	51	44	37
1.00	73	62	54	72	61	54	69	62	53	45
1.25	80	69	62	79	68	61	75	67	60	52
1.50	85	75	67	83	74	67	80	72	65	57
2.00	92	83	76	90	82	75	86	79	73	65
2.50	96	88	81	94	86	80	90	83	78	69
3.00	100	92	86	97	91	85	93	87	83	73
4.00	104	98	93	101	96	91	96	92	88	78
5.00	107	101	97	104	99	95	99	95	91	81
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	Shielding Angle:



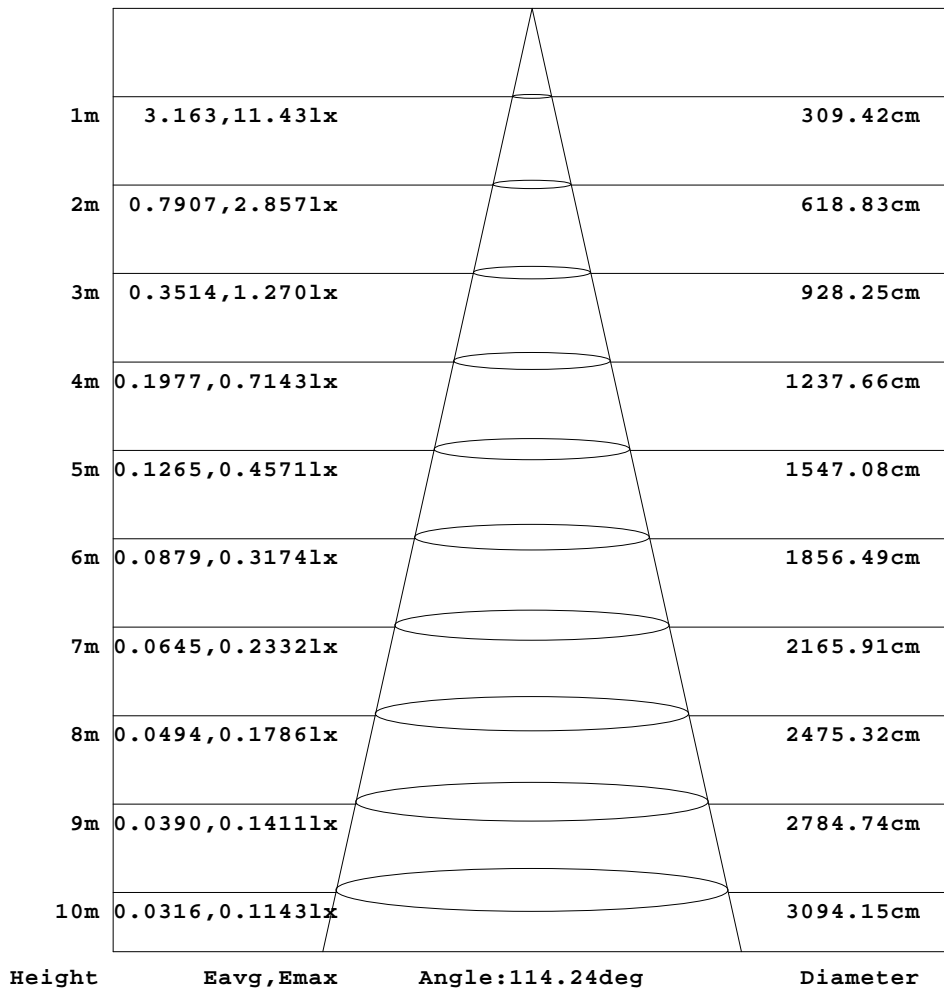
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	Shielding Angle:

Flux out:25.45 lm



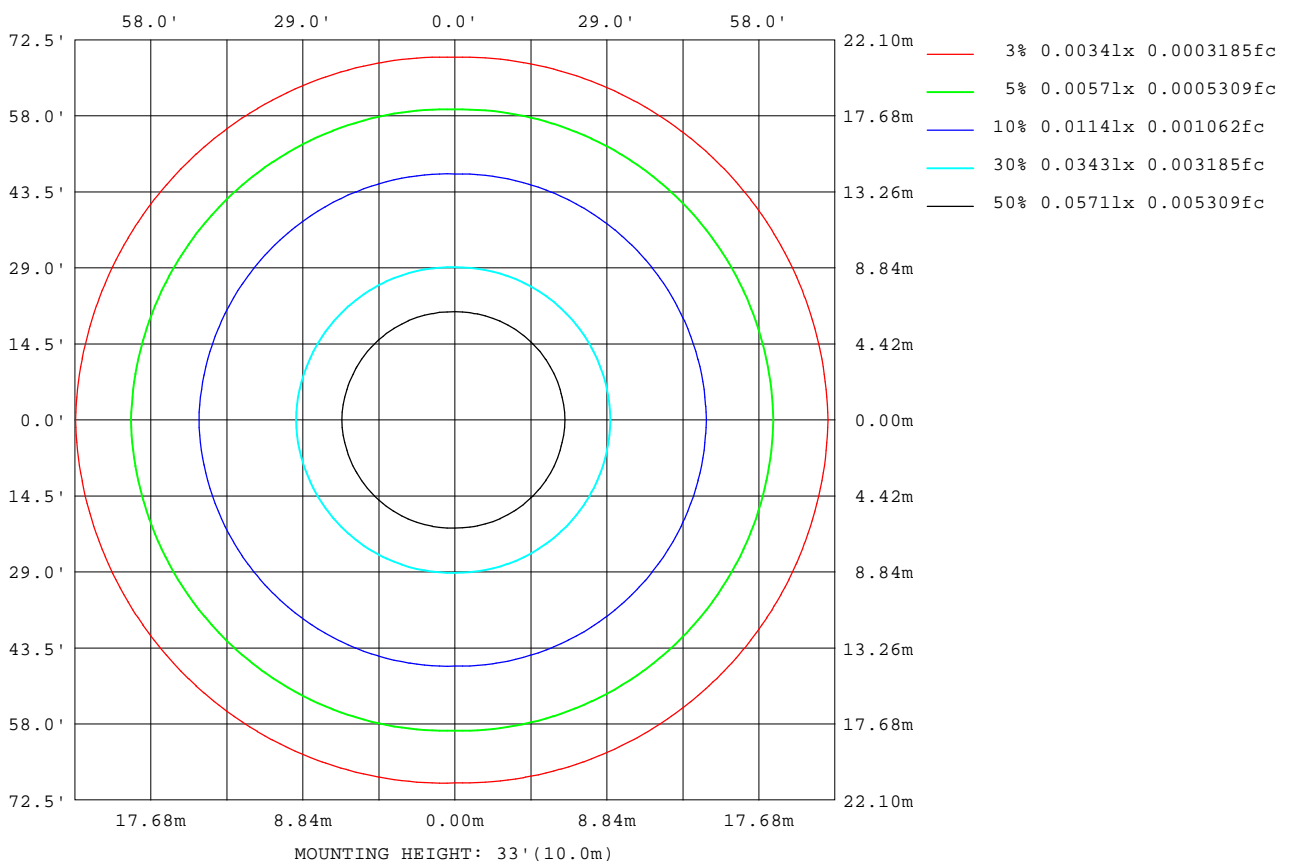
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:COLORS
 Test Date:2019-04-03

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	Shielding Angle:

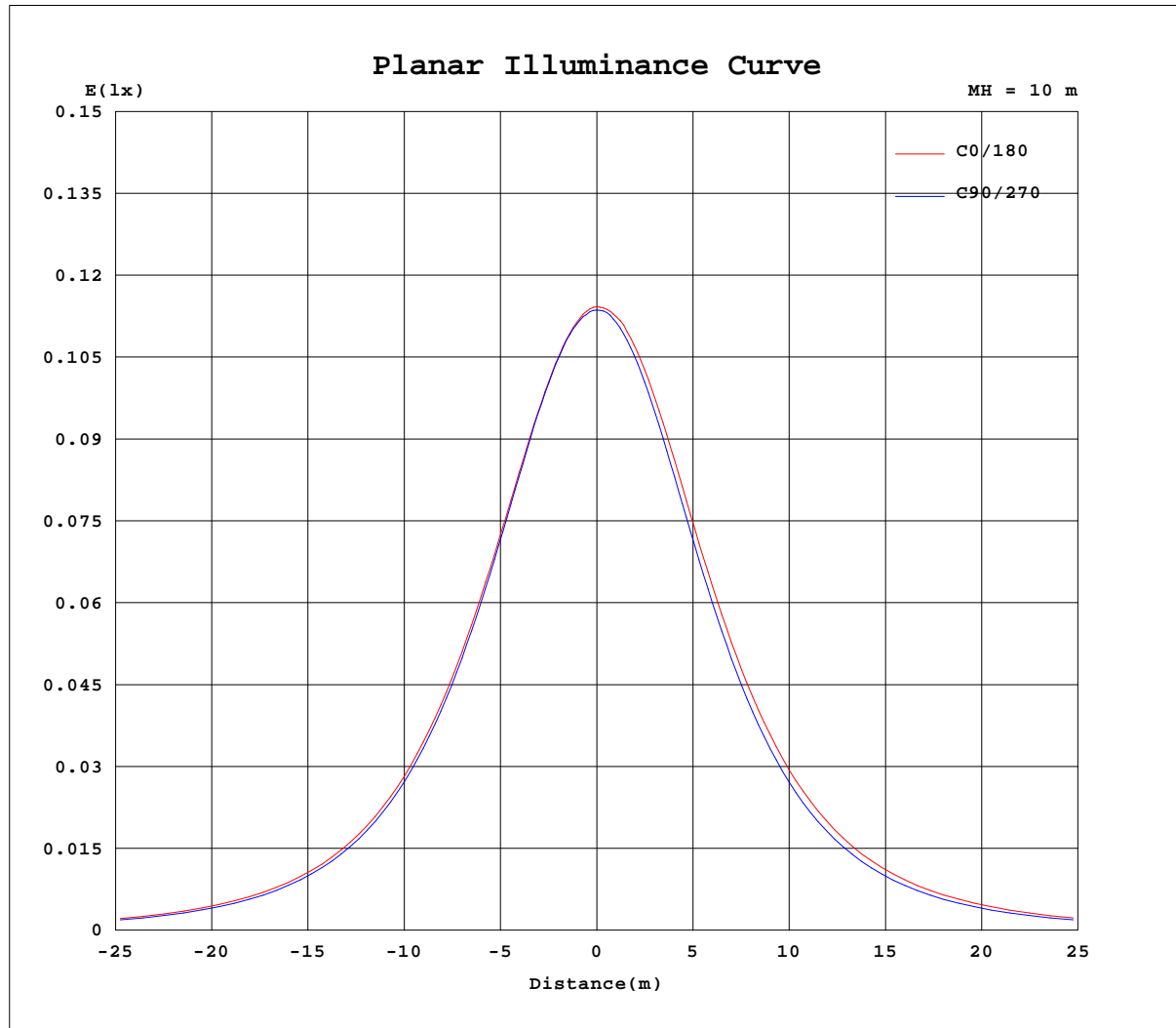
AvgL	cd/m2
L_0~180(65)av	956
L_0~180(75)av	954
L_0~180(85)av	1297
L_90~270(65)av	846
L_90~270(75)av	766
L_90~270(85)av	550
L_45(65)av	889
L_45(75)av	839
L_45(85)av	833

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-03

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: COLORS
Test Date: 2019-04-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.3390A P:8.100W PF:0 Freq:0Hz Lamp Flux:36.4642x1 lm		
NAME: NMS1217	TYPE:	WEIGHT:
SPEC.:NMS1217-OB24NSN050CC0100-PLus	DIM.: 1000*12*17	SERIAL No.:
MFR.: Colors	SUR.:1000*12*17	Shielding Angle:

Table--1

UNIT: cd

C(DEC) g (DEC)	0	90	180	270															
0	11.4	11.4	11.4	11.4															
5	11.3	11.3	11.4	11.3															
10	11.2	11.2	11.4	11.2															
15	11.0	10.9	11.2	10.9															
20	10.6	10.6	10.9	10.6															
25	10.3	10.2	10.6	10.2															
30	9.82	9.66	10.1	9.64															
35	9.29	9.07	9.60	9.06															
40	8.68	8.43	9.00	8.40															
45	8.00	7.71	8.33	7.68															
50	7.25	6.92	7.59	6.89															
55	6.45	6.09	6.76	6.07															
60	5.60	5.21	5.89	5.19															
65	4.72	4.30	4.98	4.28															
70	3.78	3.34	4.02	3.33															
75	2.87	2.38	3.06	2.38															
80	2.01	1.29	2.17	1.48															
85	1.31	0.44	1.40	0.71															
90	0.91	0.00	0.90	0.26															
95	0.79	0.00	0.70	0.00															
100	0.74	0.00	0.65	0.00															
105	0.71	0.00	0.64	0.00															
110	0.66	0.00	0.59	0.00															
115	0.61	0.00	0.54	0.00															
120	0.56	0.00	0.50	0.00															
125	0.50	0.00	0.45	0.00															
130	0.45	0.00	0.41	0.00															
135	0.38	0.00	0.36	0.00															
140	0.31	0.00	0.30	0.00															
145	0.14	0.00	0.24	0.00															
150	0.01	0.00	0.18	0.00															
155	0.00	0.00	0.09	0.00															
160	0.00	0.00	0.04	0.00															
165	0.00	0.00	0.00	0.00															
170	0.00	0.00	0.00	0.00															
175	0.00	0.00	0.00	0.00															
180	0.00	0.00	0.00	0.00															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-04-03

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: