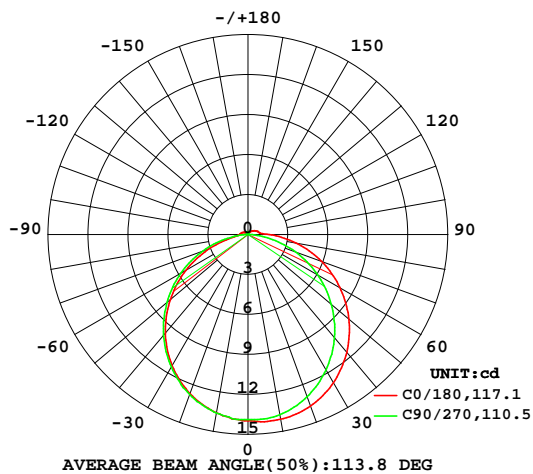


LUMINAIRE PHOTOMETRIC TEST REPORT

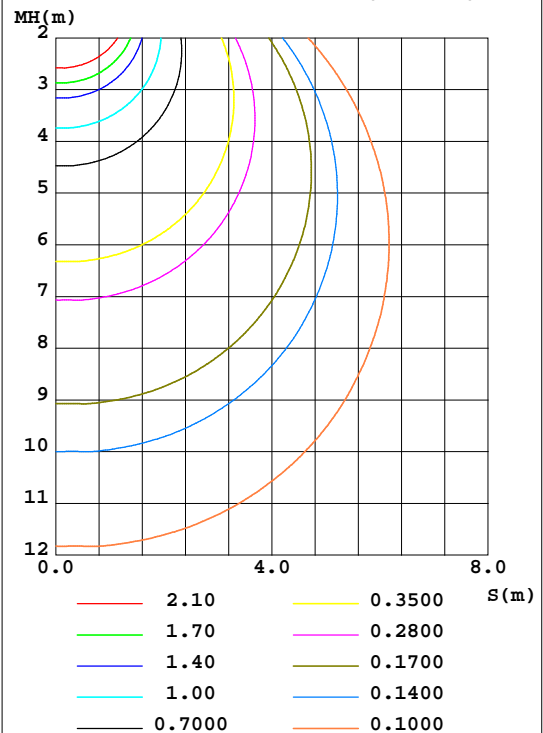
Test:U:48.00V I:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.417lx1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-0RGBLW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 13.70 lm/W			
MODEL	NMS1217-Plus	Imax(cd)	14.09	S/MH(C0/180)	1.22
NOMINAL POWER(W)	9.6	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	43.417	h UP,DN(C0-180)	2.4,50.0
NOMINAL FLUX(lm)	43.4171	CIE CLASS	DIRECT	h UP,DN(C180-360)	2.0,45.5
LAMPS INSIDE	1	h up(%)	4.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	48	h down(%)	95.5	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:

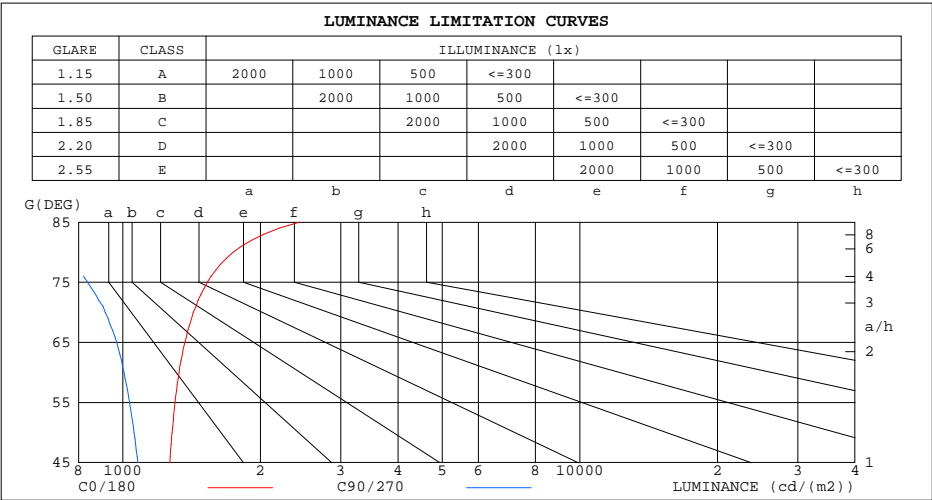
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	14.07	13.91	13.73	13.57	13.59	13.56	13.60	13.91	0~ 10	1.323	1.323	3.05,3.05
20	13.70	13.46	12.97	12.67	12.71	12.62	12.77	13.41	10~ 20	3.797	5.120	11.8,11.8
30	12.84	12.57	11.73	11.31	11.38	11.24	11.49	12.46	20~ 30	5.767	10.89	25.1,25.1
40	11.54	11.23	10.11	9.603	9.661	9.495	9.857	11.10	30~ 40	6.970	17.86	41.1,41.1
50	9.894	9.555	8.164	7.553	7.612	7.436	7.949	9.393	40~ 50	7.262	25.12	57.9,57.9
60	7.965	7.594	6.036	5.338	5.372	5.219	5.823	7.442	50~ 60	6.631	31.75	73.1,73.1
70	5.855	5.482	3.756	2.996	3.015	2.895	3.583	5.316	60~ 70	5.186	36.94	85.1,85.1
80	3.635	3.228	1.489	0.9515	1.034	0.9362	1.387	3.135	70~ 80	3.176	40.11	92.4,92.4
90	1.593	1.187	0.1287	0.4938	0.6407	0.5078	0.0802	1.192	80~ 90	1.367	41.48	95.5,95.5
100	0.8755	0.5936	0.0806	0.3874	0.5477	0.4342	0.0601	0.5485	90~100	0.5868	42.06	96.9,96.9
110	0.7617	0.4400	0.0668	0.3208	0.4407	0.3405	0.0803	0.5013	100~110	0.4255	42.49	97.9,97.9
120	0.5815	0.3051	0.0935	0.1536	0.3206	0.1939	0.1137	0.2946	110~120	0.3127	42.80	98.6,98.6
130	0.4078	0.2073	0.0935	0.1540	0.2071	0.1536	0.1269	0.1737	120~130	0.1975	43.00	99,99
140	0.3073	0.1803	0.1199	0.1804	0.1937	0.1536	0.1405	0.1403	130~140	0.1404	43.14	99.4,99.4
150	0.2405	0.1870	0.1336	0.2005	0.1937	0.1536	0.1738	0.1336	140~150	0.1107	43.25	99.6,99.6
160	0.2271	0.2004	0.1870	0.2140	0.2137	0.2004	0.2071	0.1403	150~160	0.0868	43.34	99.8,99.8
170	0.2271	0.2271	0.2003	0.2405	0.2137	0.2004	0.2204	0.1871	160~170	0.0584	43.40	100,100
180	0.2271	0.2271	0.2271	0.2405	0.2137	0.2137	0.2204	0.2405	170~180	0.0208	43.42	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
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:48.00V I:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.4171x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-0RGBLW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	2438	550
80	1744	714
75	1530	838
70	1427	915
65	1367	970
60	1327	1006
55	1301	1035
50	1283	1058
45	1267	1080

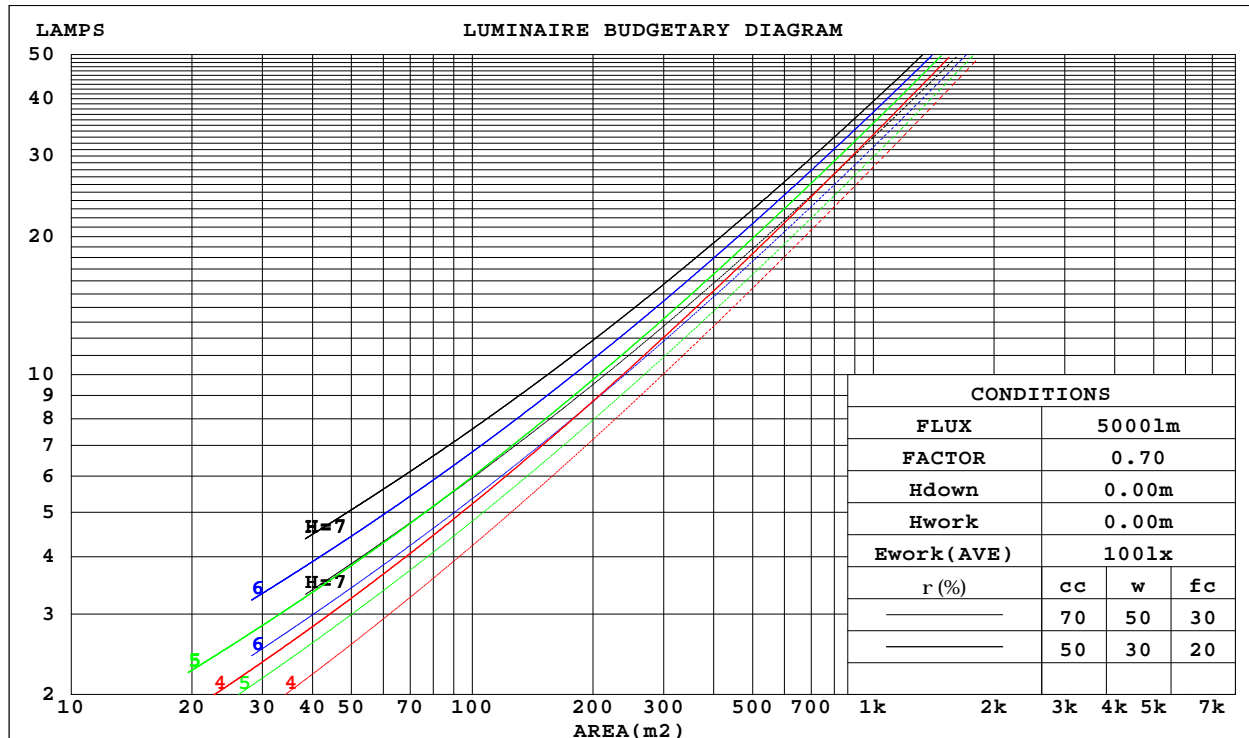
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-06-15

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:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.417lx1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-0RGBLW48CSN050CC0100-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			Coefficients of Utilization(CU)												
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.96
1.0	1.02	.97	.93	.99	.95	.91	.94	.91	.88	.89	.87	.84	.85	.83	.81	.79
2.0	.89	.81	.76	.86	.80	.74	.82	.77	.72	.78	.73	.70	.74	.71	.67	.65
3.0	.78	.69	.63	.76	.68	.62	.72	.65	.60	.69	.63	.58	.65	.61	.57	.54
4.0	.69	.60	.53	.67	.59	.52	.64	.57	.51	.61	.55	.50	.58	.53	.49	.46
5.0	.61	.52	.45	.60	.51	.45	.57	.50	.44	.55	.48	.43	.52	.47	.42	.40
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.49	.43	.38	.47	.42	.37	.35
7.0	.50	.41	.35	.49	.40	.34	.47	.39	.34	.45	.38	.33	.43	.37	.33	.31
8.0	.45	.37	.31	.44	.36	.31	.43	.35	.30	.41	.35	.30	.40	.34	.29	.27
9.0	.42	.33	.28	.41	.33	.28	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25
10.0	.38	.30	.25	.38	.30	.25	.36	.29	.25	.35	.29	.24	.34	.28	.24	.22



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:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.4171x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-0RGBLW48CSN050CC0100-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	.225	.225	.225	.192	.192	.192	.131	.131	.131	.075	.075	.075	.024	.024	.024	
1.0	.216	.190	.167	.185	.163	.144	.126	.112	.100	.073	.065	.058	.023	.021	.019	
2.0	.208	.166	.132	.178	.143	.114	.122	.099	.079	.070	.058	.047	.023	.019	.015	
3.0	.200	.149	.108	.172	.129	.094	.118	.089	.066	.068	.052	.039	.022	.017	.013	
4.0	.192	.136	.093	.165	.117	.081	.114	.082	.057	.066	.048	.034	.021	.016	.011	
5.0	.185	.126	.082	.159	.109	.071	.109	.076	.050	.063	.045	.030	.020	.015	.010	
6.0	.178	.117	.074	.153	.102	.065	.105	.071	.046	.061	.042	.027	.020	.014	.009	
7.0	.171	.111	.068	.147	.096	.060	.102	.067	.042	.059	.040	.025	.019	.013	.008	
8.0	.164	.105	.064	.142	.091	.056	.098	.064	.040	.057	.038	.024	.018	.012	.008	
9.0	.158	.100	.060	.136	.087	.053	.094	.061	.037	.055	.036	.022	.018	.012	.007	
10.0	.153	.096	.058	.132	.083	.050	.091	.058	.036	.053	.035	.021	.017	.011	.007	

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:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.417lx1 lm										
NAME: NMS1217-Plus					TYPE:			WEIGHT:		
SPEC.:NMS1217-0RGBLW48CSN050CC0100-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	25.0	26.5	25.4	26.8	27.1	24.1	25.5	24.4	25.8	26.1
3H	27.0	28.4	27.4	28.7	29.0	25.6	27.0	26.0	27.3	27.6
4H	28.0	29.3	28.4	29.6	30.0	26.2	27.5	26.6	27.8	28.2
6H	29.0	30.2	29.4	30.5	30.9	26.6	27.8	27.0	28.2	28.6
8H	29.4	30.6	29.8	30.9	31.3	26.7	27.9	27.1	28.3	28.6
12H	29.9	31.0	30.3	31.4	31.8	26.8	27.9	27.2	28.3	28.7
4H 2H	25.7	27.0	26.1	27.3	27.7	25.0	26.3	25.4	26.6	27.0
3H	27.9	29.0	28.3	29.4	29.8	26.7	27.9	27.2	28.3	28.7
4H	29.0	30.1	29.5	30.5	30.9	27.5	28.5	28.0	28.9	29.4
6H	30.1	31.1	30.6	31.5	32.0	28.1	29.0	28.5	29.4	29.9
8H	30.7	31.5	31.2	32.0	32.5	28.3	29.1	28.7	29.6	30.0
12H	31.2	32.0	31.7	32.5	33.0	28.4	29.1	28.8	29.6	30.1
8H 4H	29.4	30.2	29.9	30.7	31.2	28.1	29.0	28.6	29.4	29.9
6H	30.7	31.4	31.2	31.9	32.4	28.9	29.6	29.4	30.1	30.7
8H	31.4	32.1	31.9	32.6	33.1	29.3	29.9	29.8	30.4	30.9
12H	32.2	32.7	32.7	33.2	33.8	29.5	30.0	30.0	30.6	31.1
12H 4H	29.4	30.2	29.9	30.7	31.2	28.2	29.0	28.7	29.5	30.0
6H	30.8	31.5	31.4	32.0	32.5	29.2	29.8	29.7	30.3	30.9
8H	31.6	32.2	32.1	32.7	33.3	29.6	30.1	30.1	30.7	31.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.5				

CIE Pub.117, 43.42 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -10.9)

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:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.417lx1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-0RGBLW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

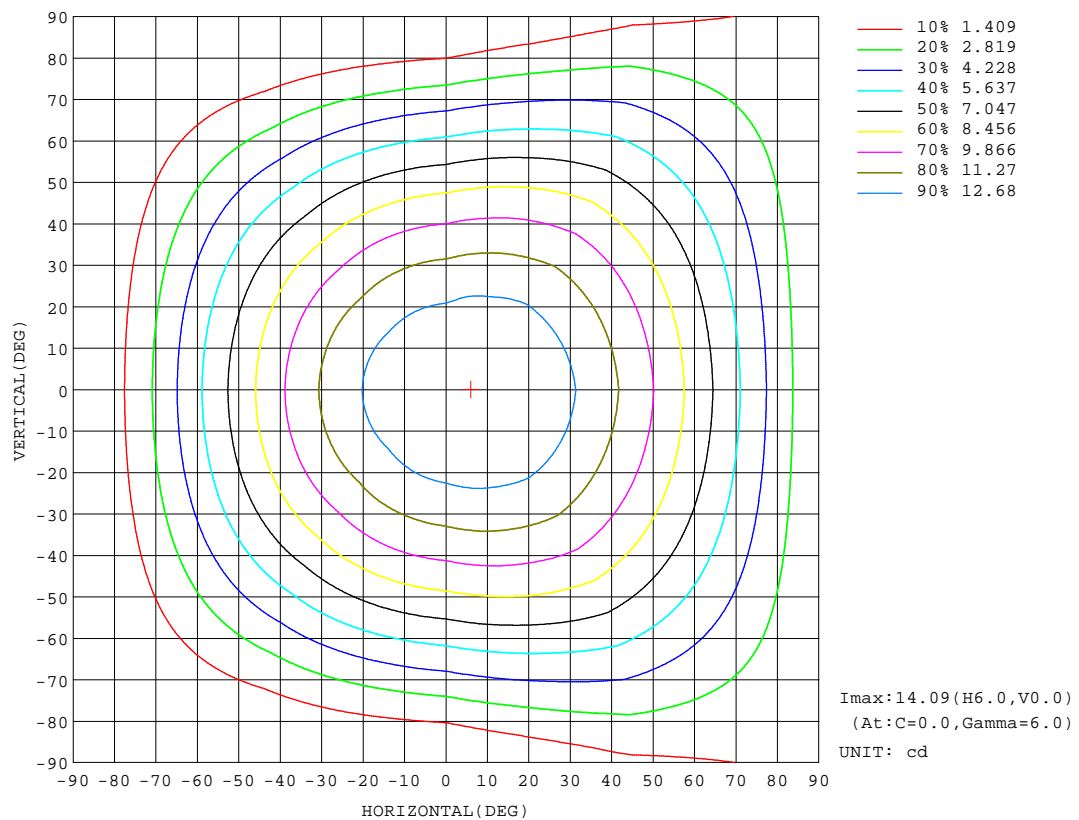
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	44	37	55	43	36	53	43	36	30
0.80	65	53	46	64	53	46	62	52	45	38
1.00	73	62	54	72	61	54	69	62	53	46
1.25	81	70	62	79	69	62	76	67	61	53
1.50	86	75	68	84	74	67	80	72	66	58
2.00	92	83	77	90	82	76	86	79	74	65
2.50	96	88	82	94	87	81	90	83	78	69
3.00	100	93	87	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: 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:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.417lx1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-0RGBLW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:



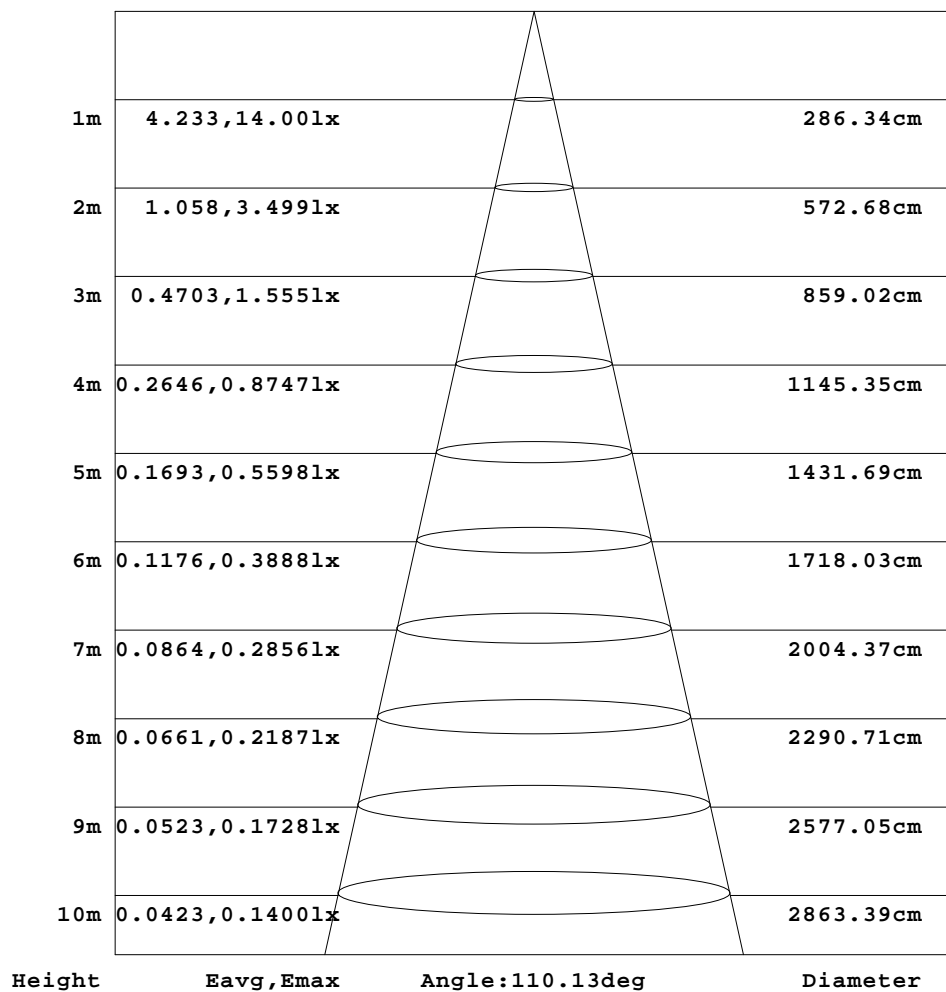
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-06-15

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:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.417lx1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-0RGBLW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

Flux out:29.23 lm



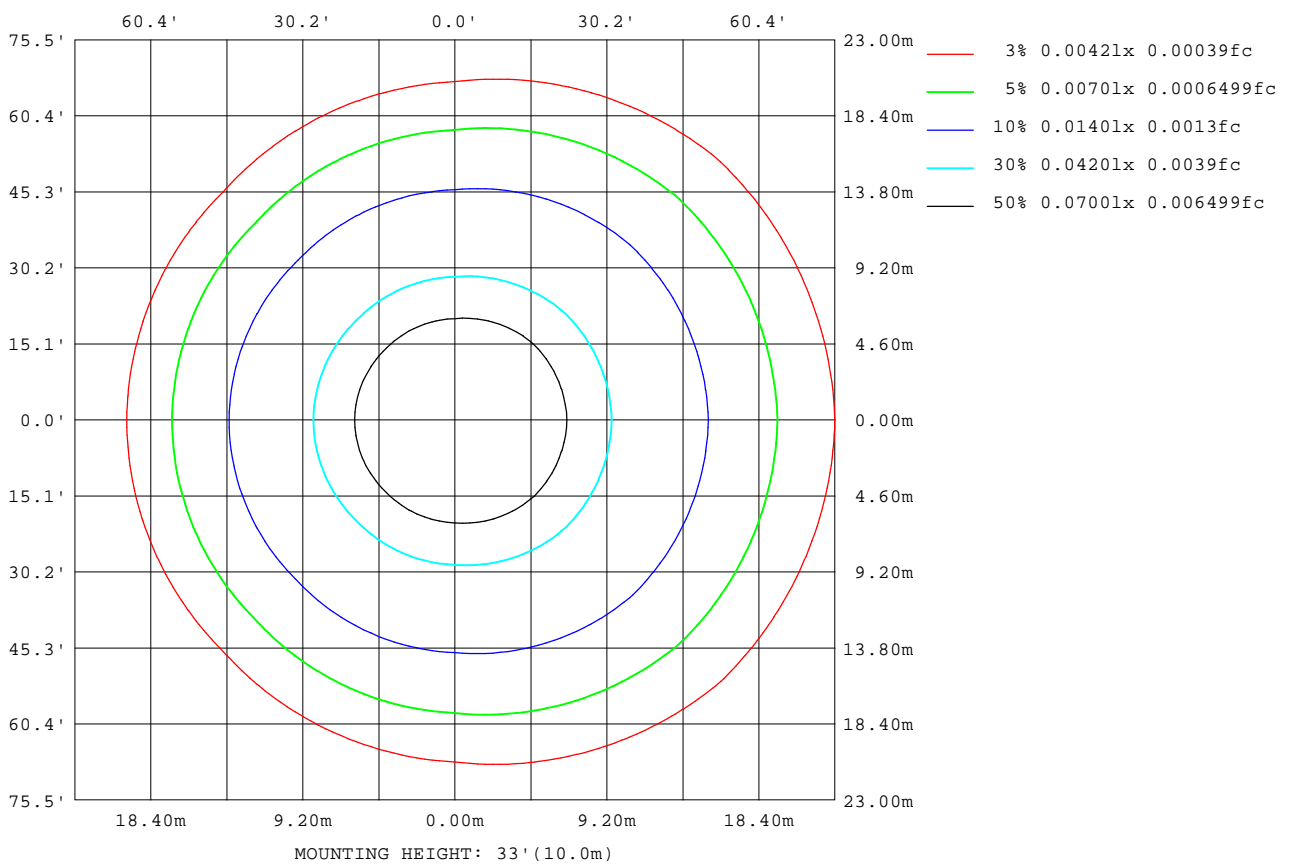
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

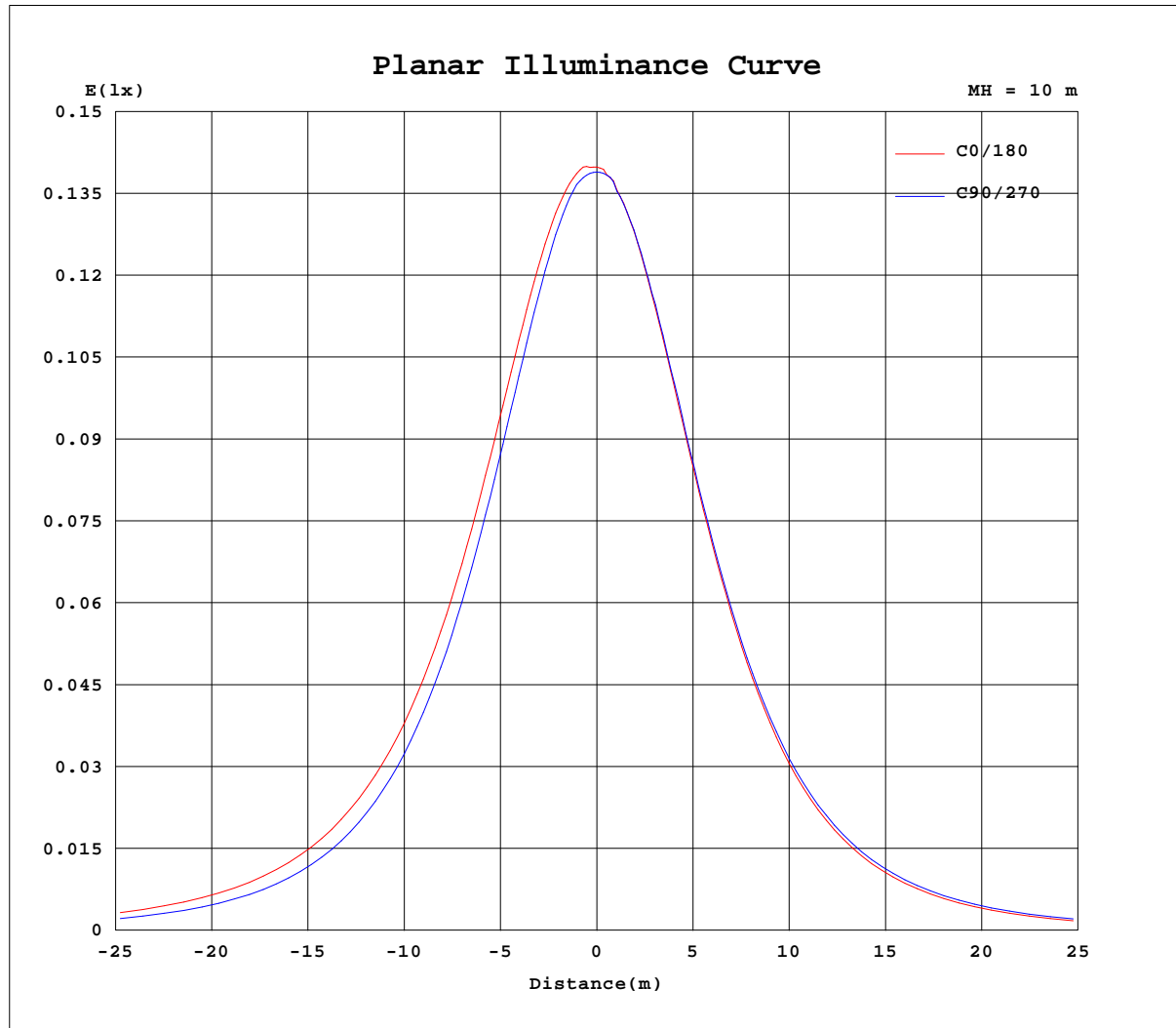
Test:U:48.00V I:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.417lx1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-0RGLW48CSN050CC0100-Plus	DIM.: 1000*12*17	SERIAL No.:01
MFR.: COLORS	SUR.:1000*12	Shielding Angle:



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:

Planar Illuminance Curve



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

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:48.00V I:0.0662A P:3.170W PF:1.000 Freq:0Hz Lamp Flux:43.4171x1 lm		
NAME: NMS1217-Plus	TYPE:	WEIGHT:
SPEC.:NMS1217-0RGBLW48CSN050CC0100-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	14.0	14.0	13.9	14.0	14.0	14.0	13.9	14.0										
5	14.1	14.0	13.9	13.8	13.9	13.8	13.9	14.0										
10	14.1	13.9	13.7	13.6	13.6	13.6	13.6	13.9										
15	14.0	13.7	13.4	13.2	13.2	13.2	13.2	13.7										
20	13.7	13.5	13.0	12.7	12.7	12.6	12.8	13.4										
25	13.3	13.1	12.4	12.0	12.1	12.0	12.2	13.0										
30	12.8	12.6	11.7	11.3	11.4	11.2	11.5	12.5										
35	12.2	11.9	11.0	10.5	10.6	10.4	10.7	11.8										
40	11.5	11.2	10.1	9.60	9.66	9.50	9.86	11.1										
45	10.8	10.4	9.16	8.59	8.66	8.49	8.92	10.3										
50	9.89	9.56	8.16	7.55	7.61	7.44	7.95	9.39										
55	8.95	8.60	7.12	6.47	6.50	6.34	6.90	8.44										
60	7.96	7.59	6.04	5.34	5.37	5.22	5.82	7.44										
65	6.93	6.56	4.92	4.17	4.20	4.06	4.72	6.39										
70	5.85	5.48	3.76	3.00	3.02	2.89	3.58	5.32										
75	4.75	4.34	2.60	1.86	1.90	1.78	2.46	4.22										
80	3.63	3.23	1.49	0.95	1.03	0.94	1.39	3.13										
85	2.55	2.12	0.58	0.51	0.75	0.57	0.49	2.06										
90	1.59	1.19	0.13	0.49	0.64	0.51	0.08	1.19										
95	1.01	0.66	0.11	0.42	0.62	0.47	0.07	0.71										
100	0.88	0.59	0.08	0.39	0.55	0.43	0.06	0.55										
105	0.82	0.51	0.06	0.32	0.51	0.39	0.07	0.50										
110	0.76	0.44	0.07	0.32	0.44	0.34	0.08	0.50										
115	0.67	0.34	0.09	0.23	0.40	0.24	0.09	0.43										
120	0.58	0.31	0.09	0.15	0.32	0.19	0.11	0.29										
125	0.49	0.21	0.09	0.15	0.33	0.16	0.13	0.21										
130	0.41	0.21	0.09	0.15	0.21	0.15	0.13	0.17										
135	0.35	0.20	0.10	0.16	0.21	0.15	0.13	0.15										
140	0.31	0.18	0.12	0.18	0.19	0.15	0.14	0.14										
145	0.26	0.18	0.13	0.19	0.19	0.15	0.16	0.14										
150	0.24	0.19	0.13	0.20	0.19	0.15	0.17	0.13										
155	0.23	0.19	0.17	0.21	0.21	0.18	0.19	0.13										
160	0.23	0.20	0.19	0.21	0.21	0.20	0.21	0.14										
165	0.23	0.21	0.19	0.23	0.22	0.20	0.22	0.15										
170	0.23	0.23	0.20	0.24	0.21	0.20	0.22	0.19										
175	0.23	0.23	0.22	0.24	0.22	0.20	0.22	0.20										
180	0.23	0.23	0.23	0.24	0.21	0.21	0.22	0.24										

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: