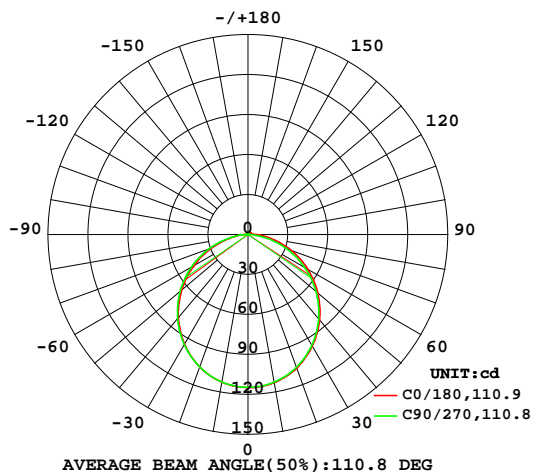


LUMINAIRE PHOTOMETRIC TEST REPORT

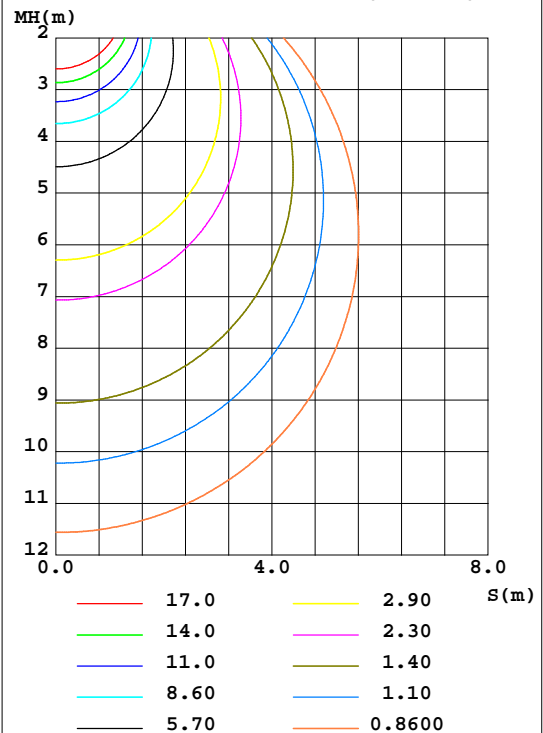
Test:U:24.00V I:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 46.37 lm/W			
MODEL	NMS0410	I _{max} (cd)	114.9	S/MH(C0/180)	1.24
NOMINAL POWER(W)	7.2	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	333.85	h UP,DN(C0-180)	1.6,49.3
NOMINAL FLUX(lm)	333.846	CIE CLASS	DIRECT	h UP,DN(C180-360)	1.1,48.1
LAMPS INSIDE	1	h up(%)	2.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	97.3	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:2020-05-20

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:

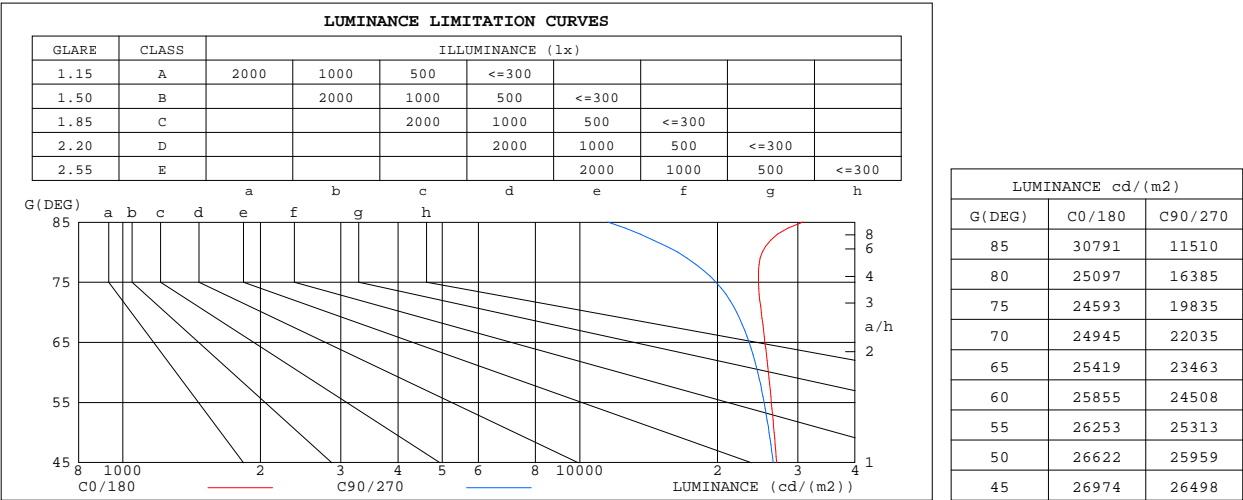
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	113.0	113.0	112.6	112.6	112.6	112.4	112.4	112.7	0- 10	10.86	10.86	3.25,3.25
20	106.8	106.8	106.2	106.1	105.9	105.7	105.9	106.4	10- 20	31.01	41.87	12.5,12.5
30	96.71	96.92	95.94	95.74	95.26	95.03	95.59	96.30	20- 30	46.77	88.64	26.6,26.6
40	83.67	83.87	82.63	82.03	81.30	81.26	82.23	83.28	30- 40	56.02	144.7	43.3,43.3
50	68.45	68.64	66.74	65.77	64.88	64.99	66.54	68.02	40- 50	57.77	202.4	60.6,60.6
60	51.71	51.89	49.02	47.70	46.81	46.99	49.10	51.16	50- 60	52.01	254.4	76.2,76.2
70	34.13	33.89	30.15	28.72	28.01	28.12	30.56	33.18	60- 70	39.69	294.1	88.1,88.1
80	17.43	16.22	11.38	11.05	11.16	10.72	12.56	15.86	70- 80	23.02	317.1	95,95
90	6.209	4.822	0.6779	1.716	2.321	1.553	1.088	4.345	80- 90	7.730	324.9	97.3,97.3
100	3.020	2.684	0.3464	0.7817	0.8354	0.7347	0.2338	2.092	90-100	1.994	326.9	97.9,97.9
110	2.719	1.970	0.5277	0.9026	0.9619	0.8282	0.4680	1.545	100-110	1.387	328.3	98.3,98.3
120	2.592	1.657	0.7671	1.035	1.116	0.9218	0.6747	1.390	110-120	1.245	329.5	98.7,98.7
130	2.459	1.676	0.9948	1.182	1.276	1.035	0.8619	1.383	120-130	1.184	330.7	99.1,99.1
140	2.345	1.303	1.142	1.269	1.336	1.129	0.9889	1.156	130-140	1.054	331.7	99.4,99.4
150	1.743	1.389	1.262	1.430	1.336	1.362	1.163	1.096	140-150	0.8400	332.6	99.6,99.6
160	1.683	1.469	1.469	1.597	1.483	1.509	1.463	1.215	150-160	0.6512	333.2	99.8,99.8
170	1.757	1.670	1.717	1.743	1.543	1.677	1.743	1.569	160-170	0.4458	333.7	100,100
180	1.663	1.904	1.897	1.904	1.683	1.904	1.944	1.897	170-180	0.1659	333.8	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:2020-05-20

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:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:



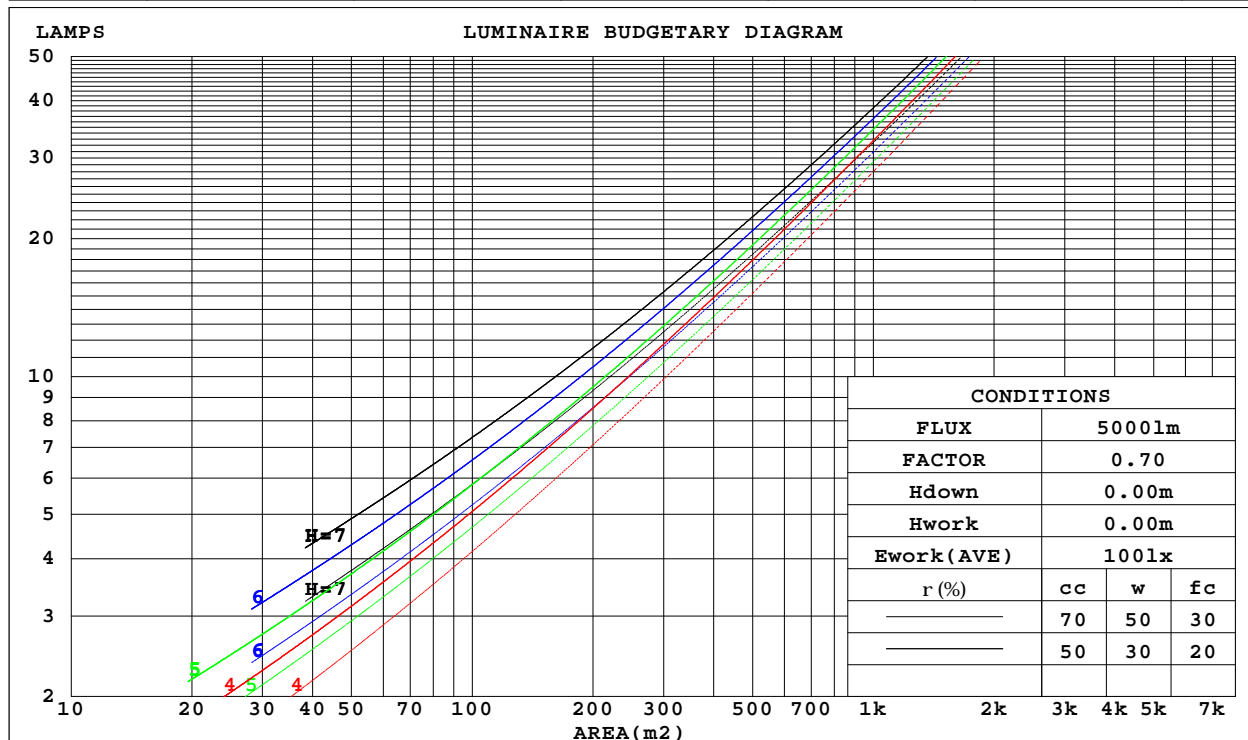
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-05-20

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:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	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:2020-05-20

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:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	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	.313	.178	.056	.305	.174	.055	.291	.167	.053	.277	.160	.051	.264	.153	.049	
2.0	.293	.160	.049	.286	.157	.048	.272	.152	.047	.260	.146	.046	.249	.141	.044	
3.0	.270	.144	.043	.264	.141	.043	.252	.137	.042	.241	.132	.041	.231	.128	.040	
4.0	.249	.129	.038	.243	.127	.038	.233	.123	.037	.223	.120	.036	.214	.116	.035	
5.0	.230	.117	.034	.225	.115	.034	.216	.112	.033	.207	.109	.032	.199	.106	.032	
6.0	.213	.107	.031	.209	.105	.030	.200	.103	.030	.192	.100	.029	.185	.098	.029	
7.0	.198	.098	.028	.194	.097	.028	.187	.094	.027	.180	.092	.027	.173	.090	.026	
8.0	.185	.090	.025	.181	.089	.025	.175	.087	.025	.168	.085	.025	.162	.083	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.149	.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	.211	.211	.211	.180	.180	.180	.123	.123	.123	.071	.071	.071	.023	.023	.023	
1.0	.201	.177	.155	.172	.152	.133	.118	.104	.092	.068	.060	.054	.022	.019	.017	
2.0	.193	.153	.119	.165	.131	.103	.113	.091	.072	.065	.053	.042	.021	.017	.014	
3.0	.185	.135	.095	.159	.117	.083	.109	.081	.058	.063	.047	.034	.020	.015	.011	
4.0	.178	.122	.079	.153	.105	.069	.105	.073	.049	.061	.043	.029	.020	.014	.009	
5.0	.170	.112	.068	.146	.097	.059	.101	.067	.042	.058	.040	.025	.019	.013	.008	
6.0	.163	.103	.060	.140	.089	.053	.097	.063	.037	.056	.037	.022	.018	.012	.007	
7.0	.156	.096	.054	.134	.084	.047	.093	.059	.034	.054	.035	.020	.017	.011	.007	
8.0	.150	.091	.050	.129	.079	.044	.089	.055	.031	.052	.033	.018	.017	.011	.006	
9.0	.144	.086	.047	.124	.074	.041	.086	.052	.029	.050	.031	.017	.016	.010	.006	
10.0	.138	.081	.044	.119	.071	.038	.083	.050	.027	.048	.029	.016	.016	.010	.005	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-05-20

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:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm										
NAME: NMS0410					TYPE:			WEIGHT:		
SPEC.:NMS0410-8LW24CSN050CC0100					DIM.: 1000*04*10			SERIAL No.:01		
MFR.: COLORS					SUR.:1000*04			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	28.0	29.5	28.3	29.7	30.0	27.8	29.3	28.1	29.6	29.8
3H	29.7	31.0	30.0	31.3	31.6	29.3	30.7	29.7	31.0	31.3
4H	30.4	31.7	30.7	32.0	32.3	29.9	31.2	30.3	31.5	31.8
6H	31.0	32.2	31.4	32.5	32.9	30.3	31.5	30.7	31.8	32.2
8H	31.3	32.4	31.6	32.8	33.1	30.4	31.6	30.7	31.9	32.2
12H	31.5	32.6	31.9	33.0	33.3	30.4	31.5	30.8	31.9	32.2
4H 2H	28.6	29.9	29.0	30.2	30.6	28.5	29.8	28.9	30.1	30.4
3H	30.5	31.6	30.9	32.0	32.3	30.2	31.4	30.6	31.7	32.1
4H	31.3	32.4	31.8	32.8	33.1	30.9	32.0	31.3	32.3	32.7
6H	32.1	33.0	32.5	33.4	33.8	31.4	32.3	31.9	32.7	33.2
8H	32.4	33.3	32.9	33.7	34.1	31.6	32.4	32.0	32.8	33.3
12H	32.8	33.5	33.2	34.0	34.4	31.6	32.4	32.1	32.9	33.3
8H 4H	31.6	32.5	32.1	32.9	33.4	31.3	32.1	31.7	32.5	33.0
6H	32.6	33.3	33.1	33.7	34.2	31.9	32.7	32.4	33.1	33.6
8H	33.0	33.7	33.5	34.1	34.6	32.2	32.8	32.7	33.3	33.8
12H	33.5	34.0	34.0	34.5	35.1	32.3	32.9	32.9	33.4	33.9
12H 4H	31.7	32.4	32.1	32.9	33.3	31.3	32.1	31.8	32.5	33.0
6H	32.6	33.3	33.1	33.8	34.3	32.0	32.7	32.5	33.2	33.7
8H	33.2	33.7	33.7	34.2	34.7	32.3	32.9	32.9	33.4	33.9
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, 333.8 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:2020-05-20

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:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

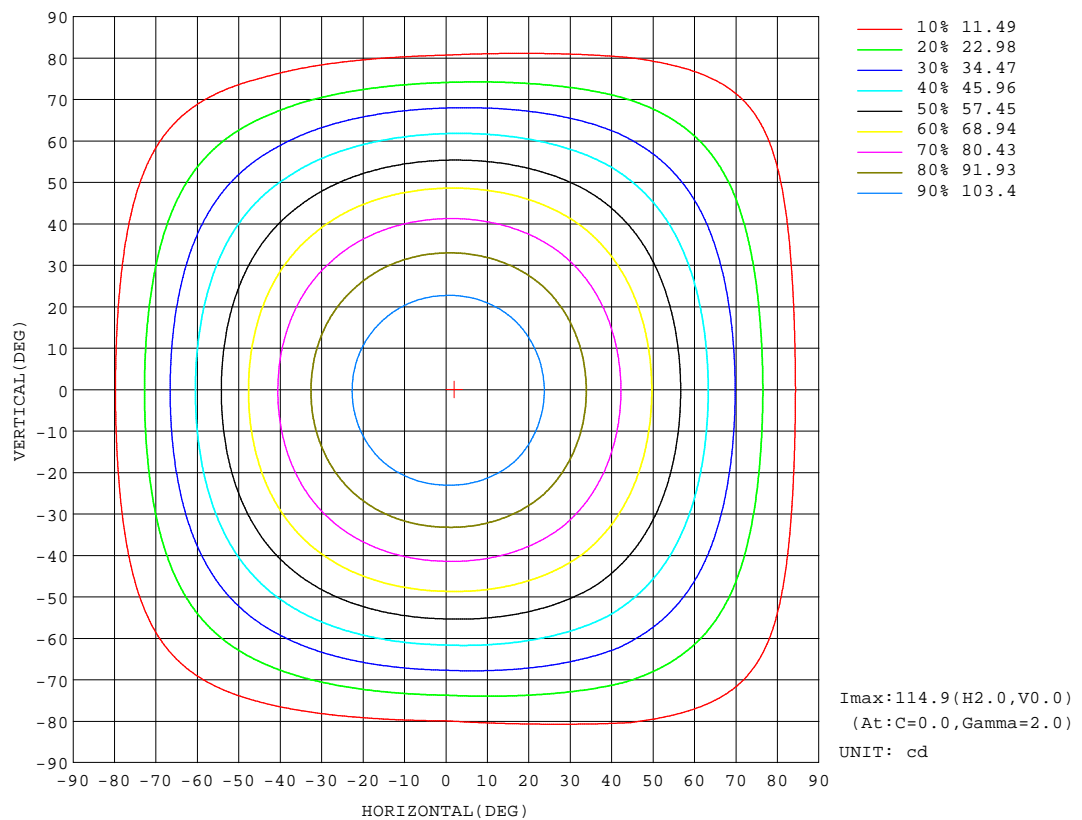
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	80	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	81	76	68
2.50	98	90	84	96	88	83	91	85	81	72
3.00	101	94	88	99	92	87	94	89	85	76
4.00	105	99	95	103	97	93	98	94	90	80
5.00	108	103	99	105	101	97	100	96	93	83
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:2020-05-20

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:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:



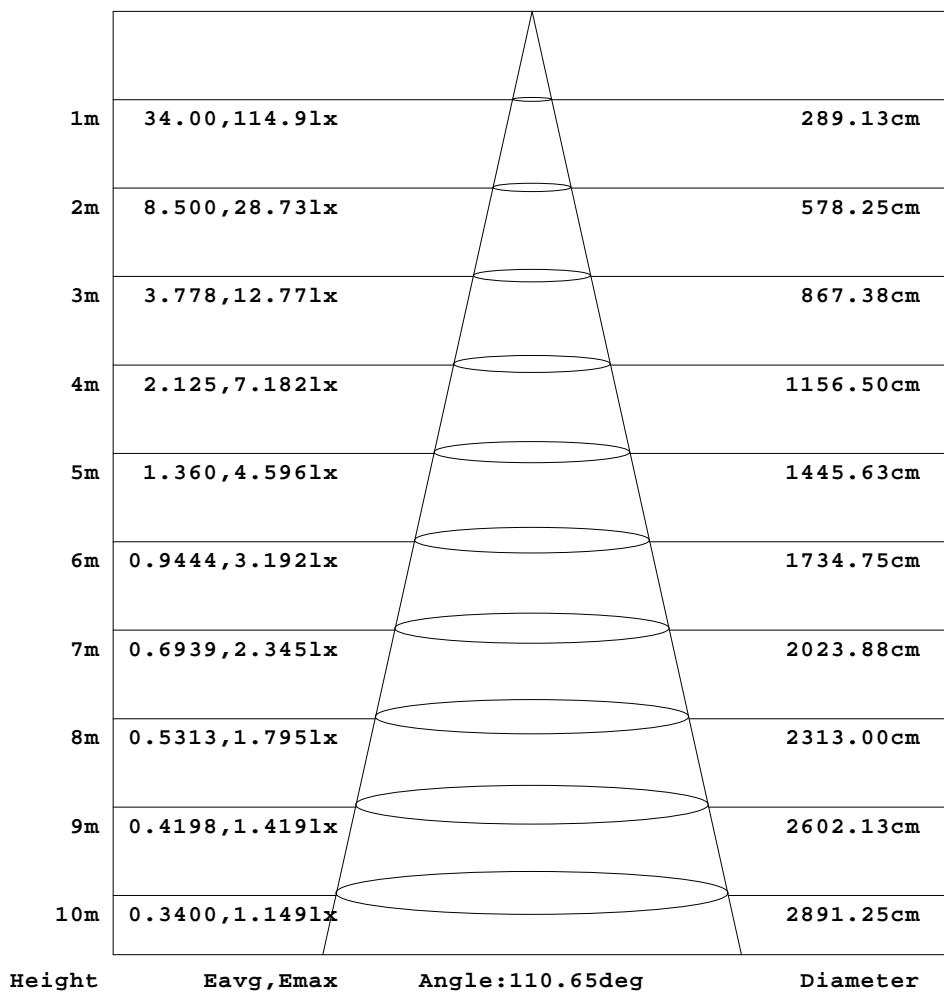
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-05-20

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:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

Flux out:234.8 lm



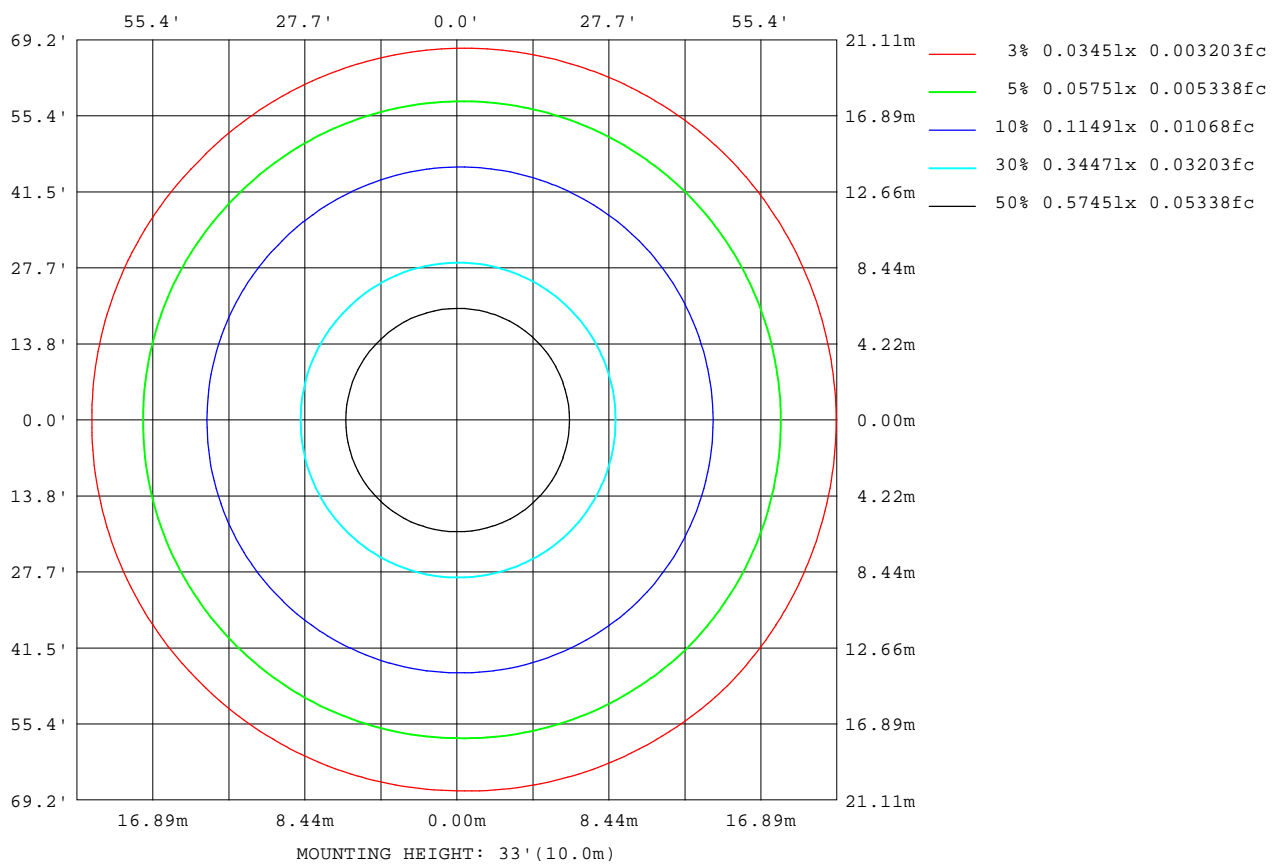
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2020-05-20

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:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2020-05-20

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:

LED Avg.L Report

Test:U:24.00V I:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

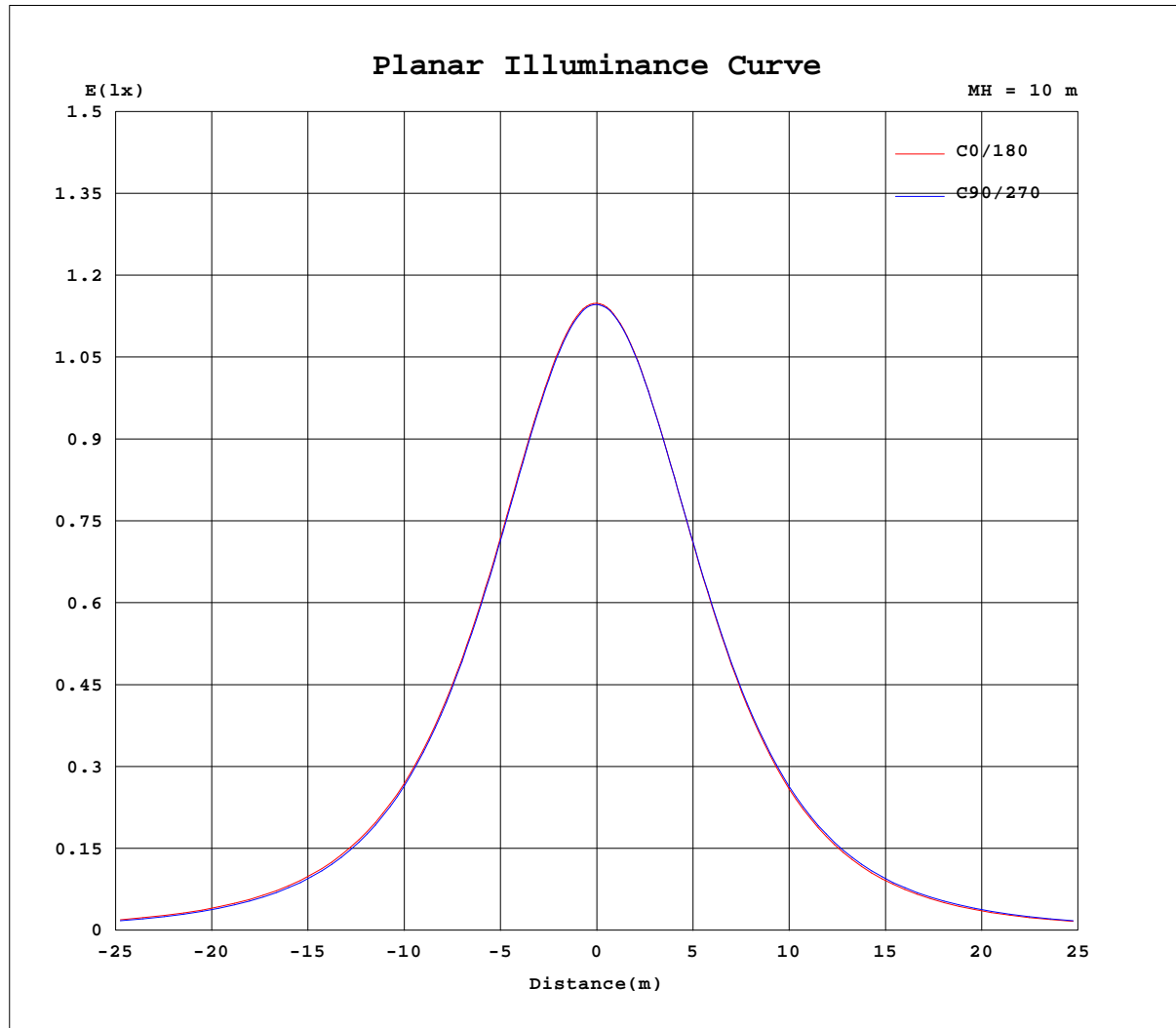
AvgL	cd/m2
L_0~180(65)av	23778
L_0~180(75)av	21486
L_0~180(85)av	23214
L_90~270(65)av	23537
L_90~270(75)av	20183
L_90~270(85)av	13029
L_45(65)av	23807
L_45(75)av	21117
L_45(85)av	19647

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2020-05-20

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: 2020-05-20

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:0.3000A P:7.200W PF:1.000 Freq:0Hz Lamp Flux:333.846x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8LW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	115	115	115	115	115	115	115	115										
5	115	114	114	114	114	114	114	114										
10	113	113	113	113	113	112	112	113										
15	110	110	110	110	110	110	110	110										
20	107	107	106	106	106	106	106	106										
25	102	102	102	101	101	101	101	102										
30	96.7	96.9	95.9	95.7	95.3	95.0	95.6	96.3										
35	90.5	90.7	89.6	89.2	88.6	88.5	89.2	90.1										
40	83.7	83.9	82.6	82.0	81.3	81.3	82.2	83.3										
45	76.3	76.5	74.9	74.2	73.4	73.4	74.6	75.9										
50	68.4	68.6	66.7	65.8	64.9	65.0	66.5	68.0										
55	60.2	60.4	58.1	56.9	56.0	56.1	58.0	59.7										
60	51.7	51.9	49.0	47.7	46.8	47.0	49.1	51.2										
65	43.0	43.0	39.7	38.2	37.4	37.5	39.9	42.2										
70	34.1	33.9	30.1	28.7	28.0	28.1	30.6	33.2										
75	25.5	24.8	20.5	19.4	19.0	19.0	21.3	24.3										
80	17.4	16.2	11.4	11.0	11.2	10.7	12.6	15.9										
85	10.7	9.20	4.01	4.81	5.45	4.57	5.07	8.82										
90	6.21	4.82	0.68	1.72	2.32	1.55	1.09	4.35										
95	3.79	3.06	0.66	0.81	1.03	0.78	0.84	2.50										
100	3.02	2.68	0.35	0.78	0.84	0.73	0.23	2.09										
105	2.81	2.54	0.38	0.84	0.88	0.75	0.33	1.94										
110	2.72	1.97	0.53	0.90	0.96	0.83	0.47	1.54										
115	2.65	1.68	0.63	1.00	1.04	0.82	0.57	1.70										
120	2.59	1.66	0.77	1.04	1.12	0.92	0.67	1.39										
125	2.55	1.68	0.94	1.12	1.20	0.95	0.78	1.38										
130	2.46	1.68	0.99	1.18	1.28	1.04	0.86	1.38										
135	2.40	1.57	1.06	1.23	1.34	1.08	0.93	1.39										
140	2.34	1.30	1.14	1.27	1.34	1.13	0.99	1.16										
145	2.07	1.35	1.22	1.35	1.33	1.25	1.06	1.12										
150	1.74	1.39	1.26	1.43	1.34	1.36	1.16	1.10										
155	1.68	1.42	1.36	1.53	1.41	1.45	1.32	1.14										
160	1.68	1.47	1.47	1.60	1.48	1.51	1.46	1.22										
165	1.77	1.53	1.60	1.66	1.54	1.57	1.60	1.38										
170	1.76	1.67	1.72	1.74	1.54	1.68	1.74	1.57										
175	1.67	1.83	1.82	1.84	1.55	1.78	1.87	1.78										
180	1.66	1.90	1.90	1.90	1.68	1.90	1.94	1.90										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-05-20

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: