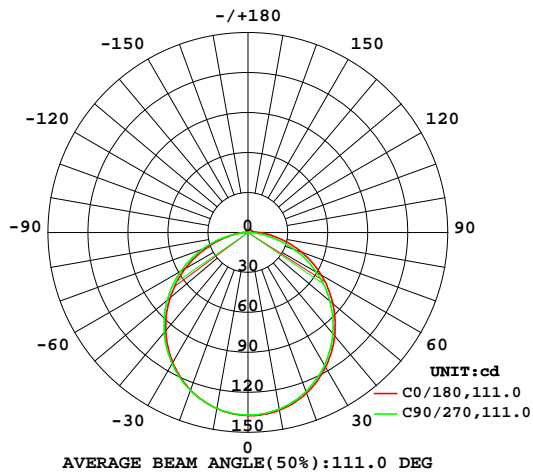


LUMINAIRE PHOTOMETRIC TEST REPORT

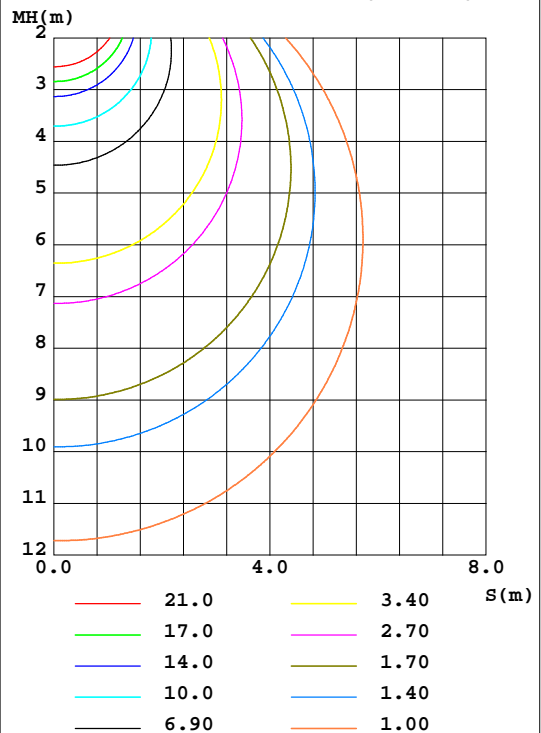
Test:U:24.00V I:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 50.69 lm/W			
MODEL	NMS0410	I _{max} (cd)	137.4	S/MH(C0/180)	1.23
NOMINAL POWER(W)	7.2	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	400.49	h UP,DN(C0-180)	1.6,49.7
NOMINAL FLUX(lm)	400.489	CIE CLASS	DIRECT	h UP,DN(C180-360)	1.1,47.5
LAMPS INSIDE	1	h up(%)	2.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	97.2	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:

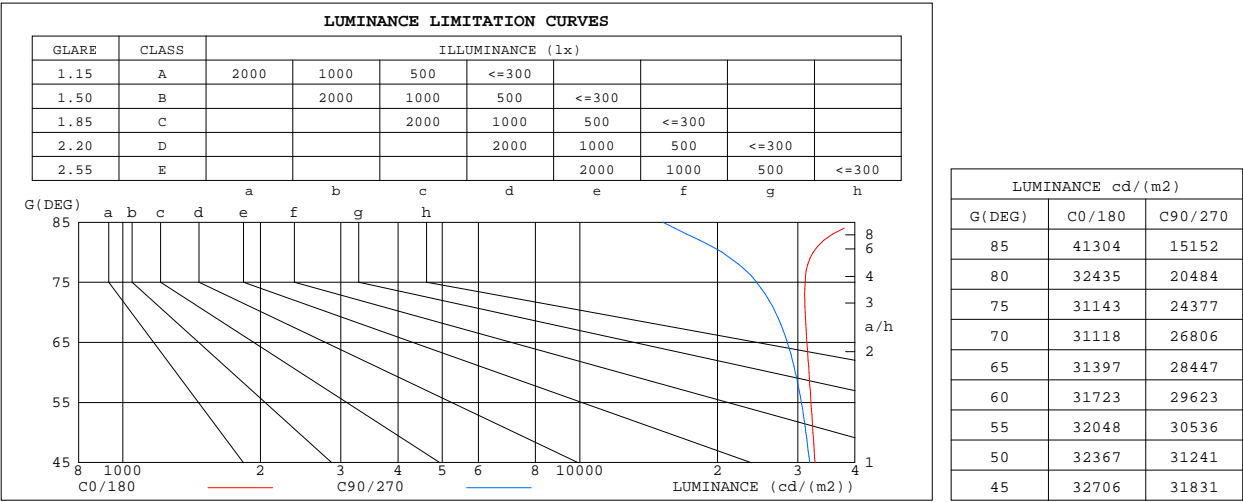
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	135.4	135.3	134.5	134.4	134.2	133.9	134.1	134.6	0~ 10	12.97	12.97	3.24,3.24
20	128.3	128.2	127.0	126.6	125.9	125.6	126.2	127.1	10~ 20	37.05	50.02	12.5,12.5
30	116.6	116.6	115.0	114.1	112.9	112.8	113.8	115.2	20~ 30	55.86	105.9	26.4,26.4
40	101.3	101.3	99.16	97.88	96.11	96.15	97.89	99.76	30~ 40	66.96	172.8	43.2,43.2
50	83.22	83.21	80.32	78.45	76.32	76.66	79.15	81.47	40~ 50	69.07	241.9	60.4,60.4
60	63.45	63.17	59.25	56.92	54.60	55.19	58.23	61.35	50~ 60	62.24	304.2	75.9,75.9
70	42.57	42.12	36.67	34.24	32.28	32.64	36.04	40.04	60~ 70	47.59	351.7	87.8,87.8
80	22.53	21.50	14.23	13.39	12.82	12.22	14.68	19.47	70~ 80	27.86	379.6	94.8,94.8
90	8.520	7.299	0.8712	2.357	2.844	1.862	1.343	5.671	80~ 90	9.792	389.4	97.2,97.2
100	3.778	4.000	0.3874	0.9686	1.069	0.9152	0.2940	2.546	90~100	2.680	392.1	97.9,97.9
110	3.273	2.057	0.6072	1.043	1.189	1.028	0.5619	1.864	100~110	1.679	393.8	98.3,98.3
120	3.126	1.997	0.9351	1.230	1.376	1.142	0.8222	1.710	110~120	1.499	395.3	98.7,98.7
130	2.933	1.997	1.222	1.423	1.550	1.249	1.035	1.657	120~130	1.427	396.7	99,99
140	2.819	1.603	1.403	1.516	1.596	1.376	1.202	1.417	130~140	1.269	397.9	99.4,99.4
150	2.051	1.663	1.563	1.730	1.610	1.622	1.423	1.296	140~150	1.014	399.0	99.6,99.6
160	2.030	1.750	1.783	1.924	1.790	1.823	1.764	1.476	150~160	0.7846	399.7	99.8,99.8
170	2.124	2.011	2.104	2.091	1.864	2.024	2.111	1.897	160~170	0.5393	400.3	99.9,99.9
180	2.017	2.318	2.331	2.331	2.017	2.324	2.391	2.331	170~180	0.2014	400.5	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:2020-05-20

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:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:



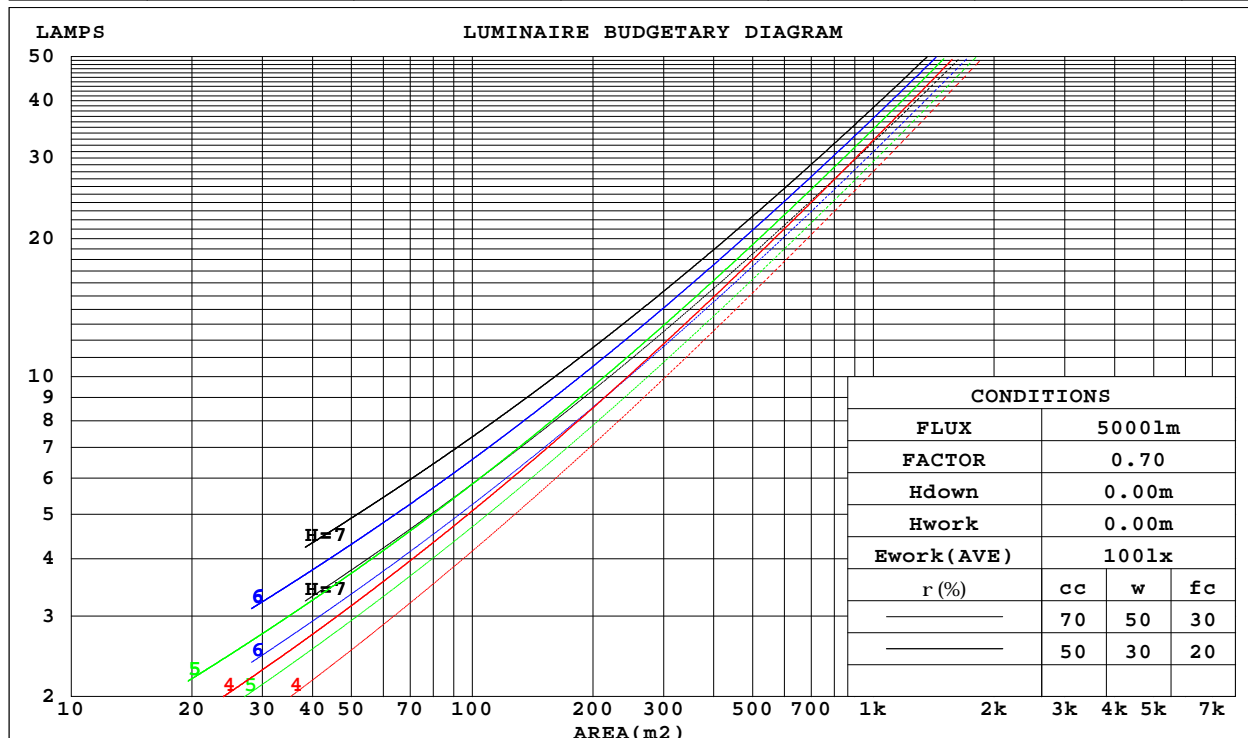
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-05-20

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:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	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:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	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	.315	.179	.057	.307	.175	.056	.292	.168	.054	.278	.161	.052	.266	.154	.050															
2.0	.294	.161	.049	.287	.158	.049	.273	.152	.047	.261	.147	.046	.250	.141	.045															
3.0	.271	.144	.043	.264	.142	.043	.253	.137	.042	.242	.132	.041	.232	.128	.040															
4.0	.249	.129	.038	.244	.128	.038	.233	.124	.037	.224	.120	.036	.214	.117	.035															
5.0	.230	.117	.034	.225	.116	.034	.216	.112	.033	.207	.109	.033	.199	.106	.032															
6.0	.213	.107	.031	.209	.105	.030	.200	.103	.030	.193	.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	.182	.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	.212	.212	.212	.181	.181	.181	.123	.123	.123	.071	.071	.071	.023	.023	.023	
1.0	.202	.177	.155	.173	.152	.134	.118	.105	.092	.068	.061	.054	.022	.020	.017	
2.0	.194	.153	.119	.166	.132	.103	.114	.091	.072	.066	.053	.042	.021	.017	.014	
3.0	.186	.136	.096	.160	.117	.083	.110	.081	.058	.063	.048	.034	.020	.015	.011	
4.0	.178	.123	.080	.153	.106	.069	.105	.074	.049	.061	.043	.029	.020	.014	.010	
5.0	.171	.112	.069	.147	.097	.060	.101	.068	.042	.059	.040	.025	.019	.013	.008	
6.0	.164	.104	.061	.141	.090	.053	.097	.063	.038	.056	.037	.022	.018	.012	.007	
7.0	.157	.097	.055	.135	.084	.048	.093	.059	.034	.054	.035	.020	.018	.011	.007	
8.0	.151	.091	.051	.130	.079	.044	.090	.056	.031	.052	.033	.019	.017	.011	.006	
9.0	.145	.086	.047	.125	.075	.041	.086	.053	.029	.050	.031	.017	.016	.010	.006	
10.0	.139	.082	.044	.120	.071	.039	.083	.050	.028	.048	.030	.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:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm											
NAME: NMS0410					TYPE:			WEIGHT:			
SPEC.:NMS0410-8NW24CSN050CC0100					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	28.1	29.6	28.4	29.9	30.1	27.9	29.4	28.2	29.6	29.9	
	3H	29.8	31.2	30.2	31.5	31.8	29.4	30.8	29.8	31.1	31.4
	4H	30.6	31.9	30.9	32.2	32.5	30.0	31.3	30.4	31.6	31.9
	6H	31.3	32.5	31.6	32.8	33.1	30.4	31.6	30.8	32.0	32.3
	8H	31.5	32.7	31.9	33.1	33.4	30.5	31.7	30.9	32.0	32.4
	12H	31.8	33.0	32.2	33.3	33.7	30.5	31.7	30.9	32.0	32.4
4H	2H	28.8	30.1	29.1	30.4	30.7	28.6	29.9	28.9	30.2	30.5
	3H	30.7	31.8	31.1	32.2	32.5	30.3	31.5	30.7	31.8	32.2
	4H	31.6	32.6	32.0	33.0	33.4	31.1	32.1	31.5	32.5	32.9
	6H	32.4	33.3	32.8	33.7	34.1	31.6	32.5	32.0	32.9	33.3
	8H	32.8	33.6	33.2	34.0	34.5	31.7	32.6	32.2	33.0	33.5
	12H	33.1	33.9	33.6	34.3	34.8	31.8	32.6	32.3	33.1	33.5
8H	4H	31.9	32.8	32.3	33.2	33.6	31.4	32.3	31.9	32.7	33.2
	6H	32.9	33.6	33.4	34.1	34.6	32.2	32.9	32.7	33.3	33.8
	8H	33.4	34.0	33.9	34.5	35.0	32.4	33.1	32.9	33.5	34.1
	12H	33.9	34.5	34.4	35.0	35.5	32.6	33.2	33.1	33.7	34.2
12H	4H	31.9	32.7	32.4	33.1	33.6	31.5	32.3	32.0	32.7	33.2
	6H	33.0	33.6	33.5	34.1	34.6	32.3	32.9	32.8	33.4	33.9
	8H	33.5	34.1	34.1	34.6	35.1	32.6	33.2	33.1	33.7	34.2
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 / - 0.4					

CIE Pub.117, 400.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.2)

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:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

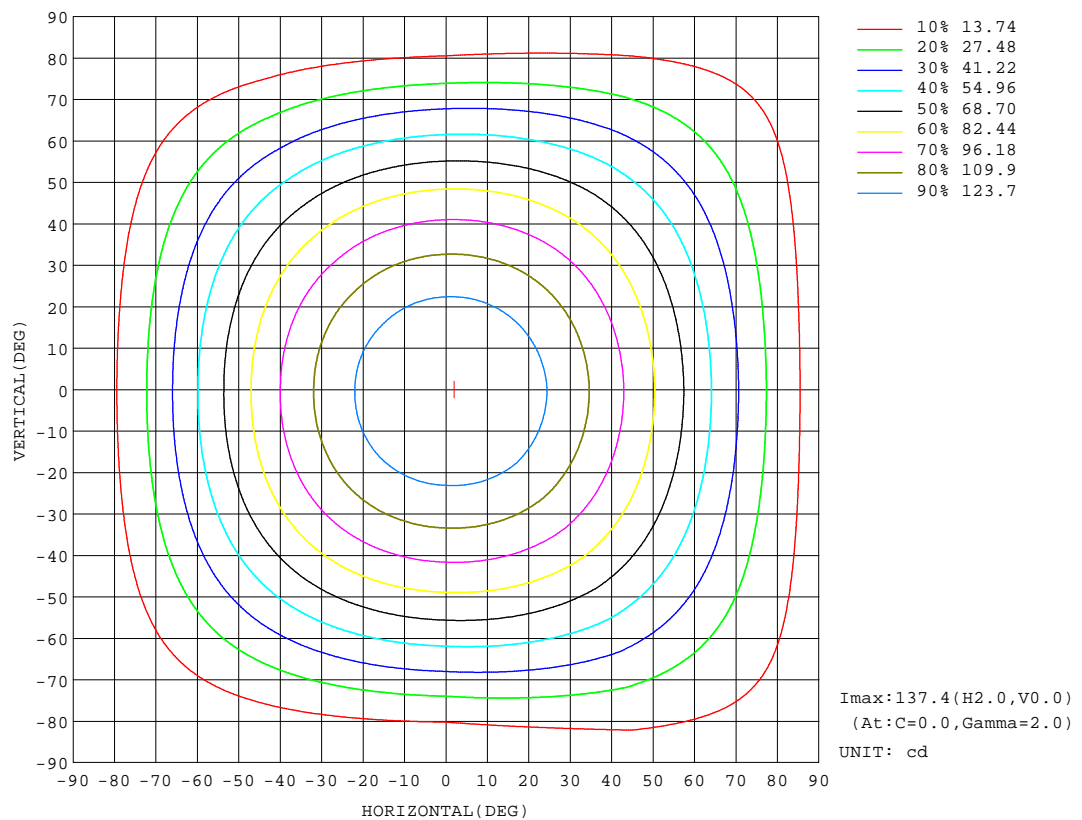
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	54	44	38	31
0.80	67	55	47	65	54	47	63	53	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	80	70	64	77	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	78	92	84	77	88	81	76	67
2.50	98	90	84	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	94	89	85	75
4.00	105	99	94	103	97	93	98	93	90	80
5.00	108	103	98	105	100	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:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:



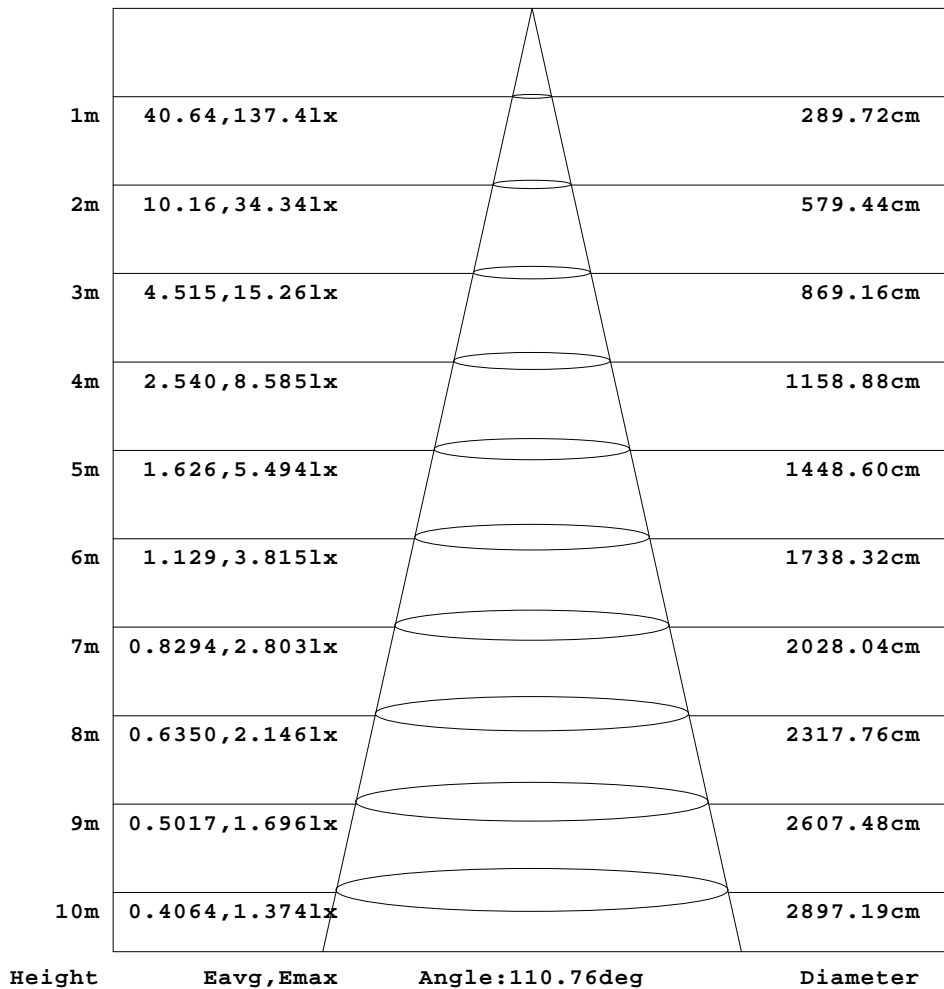
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-05-20

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:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

Flux out:280.6 lm



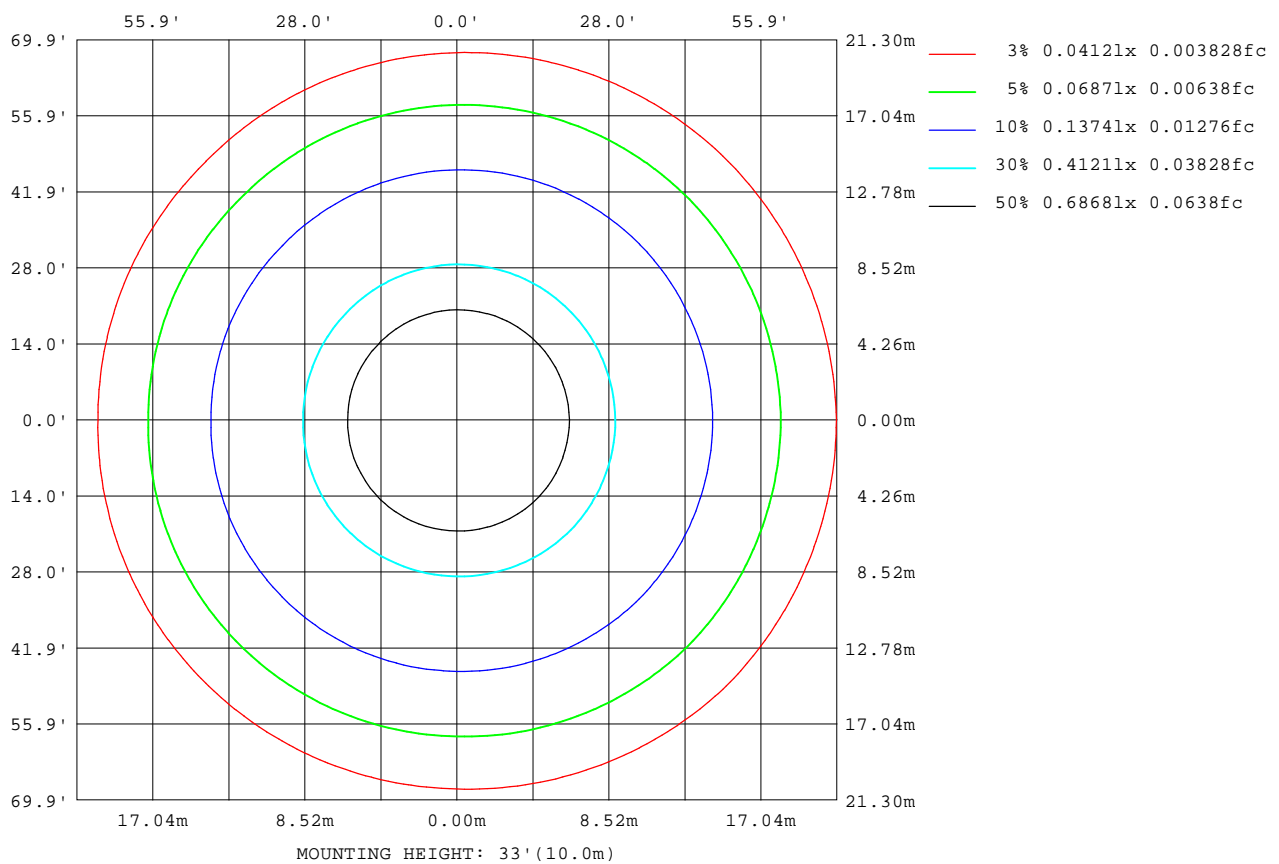
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	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:

LED Avg.L Report

Test:U:24.00V I:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

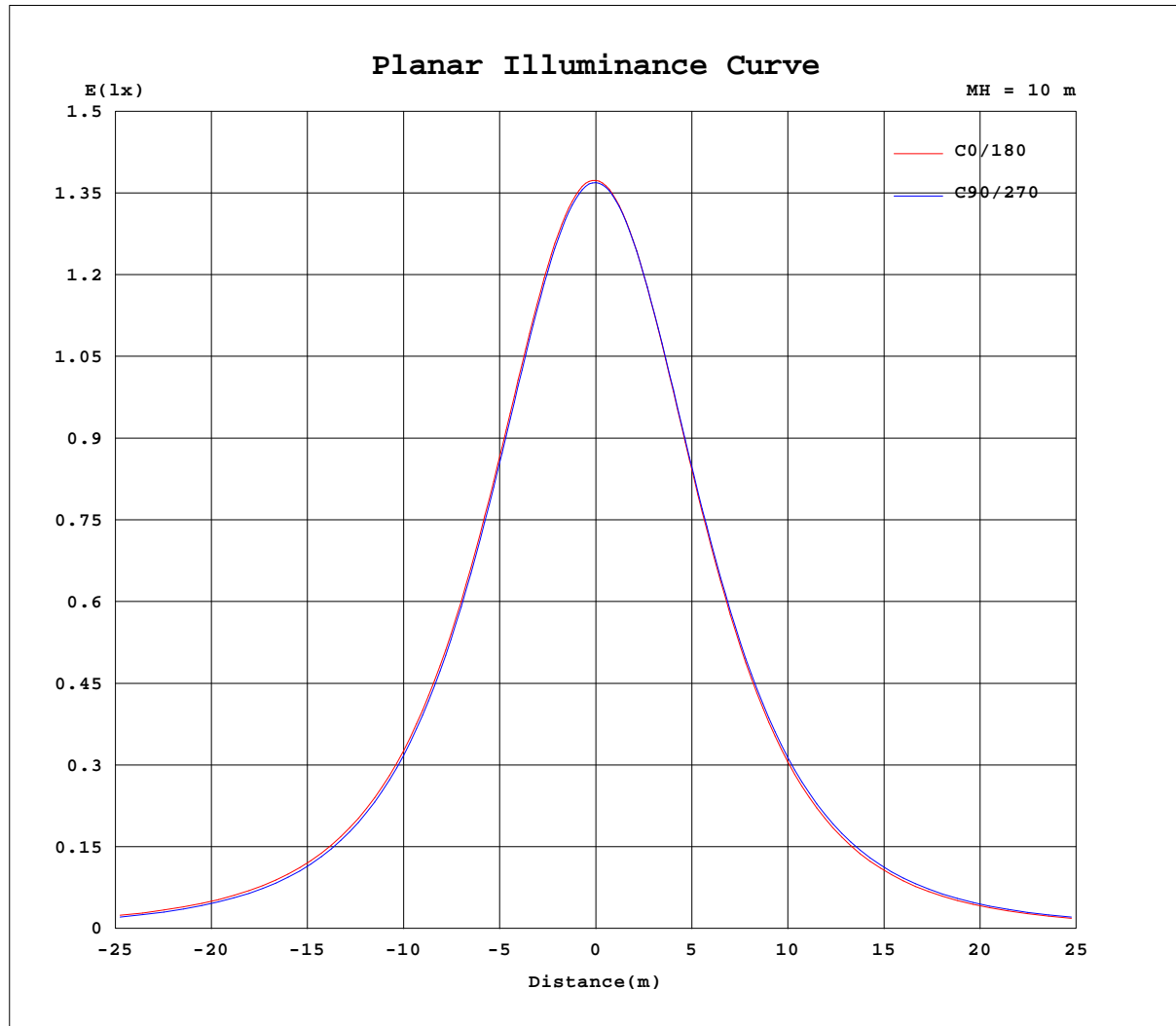
AvgL	cd/m2
L_0~180(65)av	28538
L_0~180(75)av	26102
L_0~180(85)av	29816
L_90~270(65)av	28195
L_90~270(75)av	24244
L_90~270(85)av	15869
L_45(65)av	28559
L_45(75)av	25592
L_45(85)av	25408

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

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.3300A P:7.900W PF:1.000 Freq:0Hz Lamp Flux:400.489x1 lm		
NAME: NMS0410	TYPE:	WEIGHT:
SPEC.:NMS0410-8NW24CSN050CC0100	DIM.: 1000*04*10	SERIAL No.:01
MFR.: COLORS	SUR.:1000*04	Shielding Angle:

Table--1

UNIT: cd

C(DEC) g (DEC)	0	45	90	135	180	225	270	315										
0	137	137	137	137	137	137	137	137										
5	137	137	136	136	136	136	136	136										
10	135	135	135	134	134	134	134	135										
15	133	132	131	131	131	130	131	131										
20	128	128	127	127	126	126	126	127										
25	123	123	121	121	120	120	121	122										
30	117	117	115	114	113	113	114	115										
35	109	109	107	106	105	105	106	108										
40	101	101	99.2	97.9	96.1	96.2	97.9	99.8										
45	92.5	92.6	90.0	88.5	86.6	86.7	88.8	90.9										
50	83.2	83.2	80.3	78.4	76.3	76.7	79.2	81.5										
55	73.5	73.3	70.1	67.8	65.7	66.2	68.9	71.6										
60	63.4	63.2	59.2	56.9	54.6	55.2	58.2	61.3										
65	53.1	52.7	48.1	45.6	43.4	43.9	47.2	50.8										
70	42.6	42.1	36.7	34.2	32.3	32.6	36.0	40.0										
75	32.2	31.6	25.2	23.2	21.8	21.8	25.0	29.4										
80	22.5	21.5	14.2	13.4	12.8	12.2	14.7	19.5										
85	14.4	12.9	5.28	6.14	6.39	5.26	5.78	11.1										
90	8.52	7.30	0.87	2.36	2.84	1.86	1.34	5.67										
95	5.16	4.76	0.78	1.09	1.37	0.99	0.94	3.18										
100	3.78	4.00	0.39	0.97	1.07	0.92	0.29	2.55										
105	3.39	2.77	0.42	1.01	1.11	0.94	0.42	2.34										
110	3.27	2.06	0.61	1.04	1.19	1.03	0.56	1.86										
115	3.18	2.04	0.79	1.14	1.28	1.01	0.70	2.10										
120	3.13	2.00	0.94	1.23	1.38	1.14	0.82	1.71										
125	3.07	2.00	1.06	1.35	1.46	1.16	0.94	1.68										
130	2.93	2.00	1.22	1.42	1.55	1.25	1.04	1.66										
135	2.89	1.88	1.37	1.46	1.60	1.29	1.12	1.66										
140	2.82	1.60	1.40	1.52	1.60	1.38	1.20	1.42										
145	2.49	1.61	1.48	1.62	1.60	1.49	1.29	1.33										
150	2.05	1.66	1.56	1.73	1.61	1.62	1.42	1.30										
155	1.98	1.70	1.67	1.84	1.70	1.76	1.60	1.38										
160	2.03	1.75	1.78	1.92	1.79	1.82	1.76	1.48										
165	2.10	1.85	1.95	1.99	1.89	1.91	1.94	1.67										
170	2.12	2.01	2.10	2.09	1.86	2.02	2.11	1.90										
175	2.00	2.21	2.24	2.24	1.88	2.24	2.27	2.23										
180	2.02	2.32	2.33	2.33	2.02	2.32	2.39	2.33										

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: