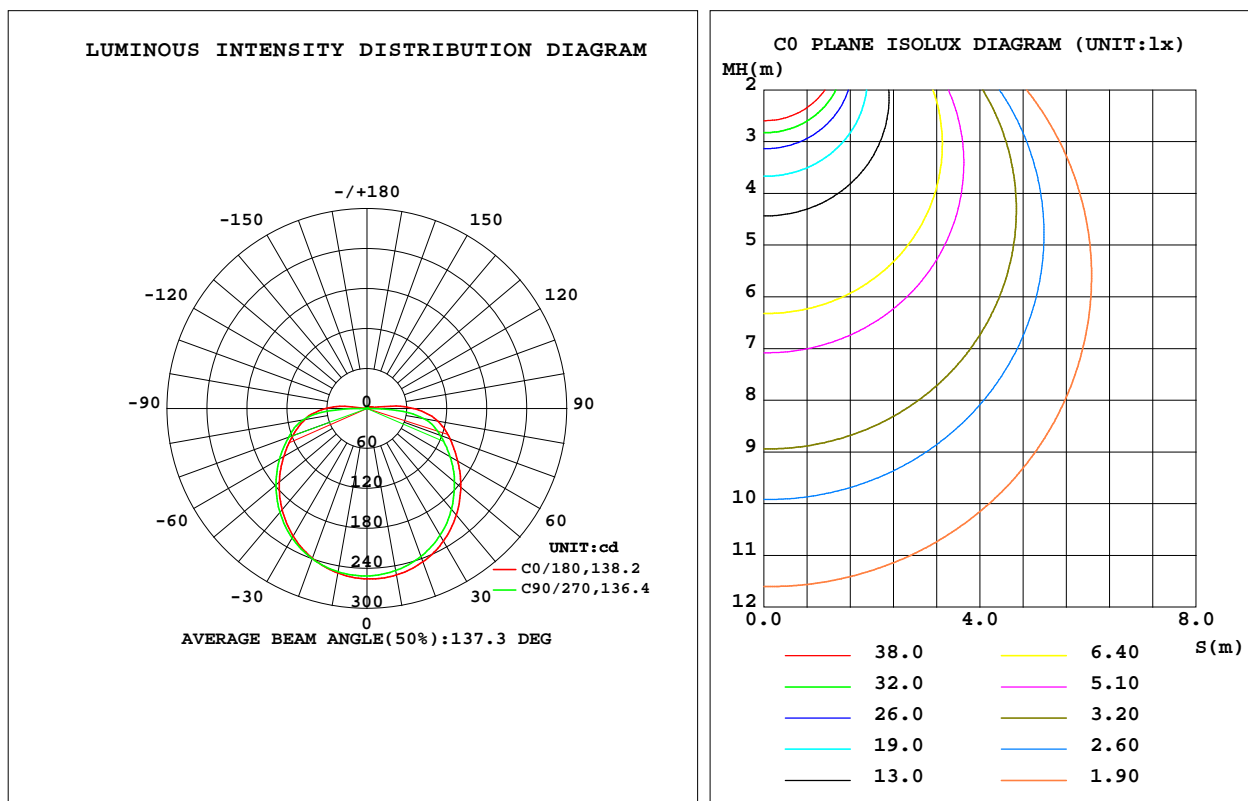


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm		
NAME: FD1282408NO	TYPE:	WEIGHT:
SPEC.:FD1282408NO-8SWNSA012BC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.09 lm/W			
MODEL	FD1282408NO	I _{max} (cd)	255.9	S/MH(C0/180)	1.34
NOMINAL POWER(W)	9.6	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1008.8	h UP,DN(C0-180)	2.3,47.7
NOMINAL FLUX(lm)	1008.82	CIE CLASS	DIRECT	h UP,DN(C180-360)	2.1,48.0
LAMPS INSIDE	1	h up(%)	4.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	95.6	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-14

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:

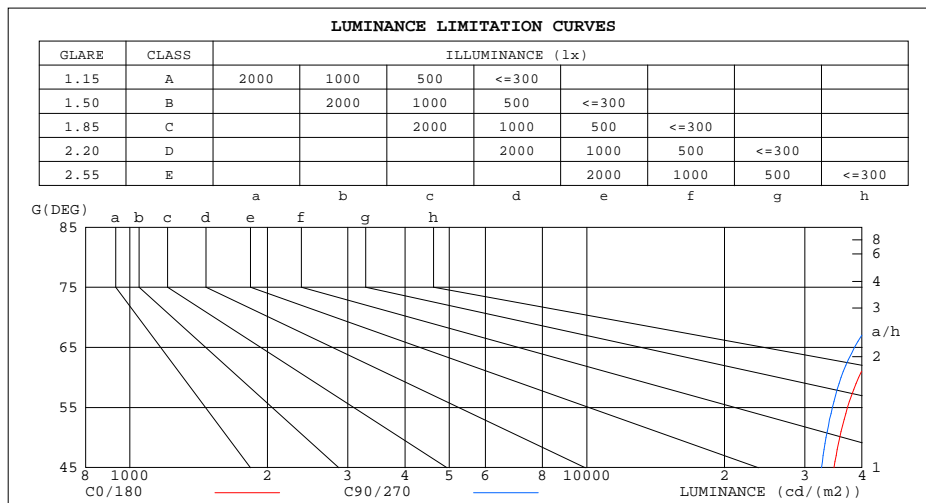
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	253.7	251.2	247.0	247.1	250.8	249.6	249.0	251.2	0- 10	24.02	24.02	2.38,2.38
20	245.0	241.9	236.4	235.5	239.3	238.9	240.0	242.8	10- 20	69.44	93.46	9.26,9.26
30	229.7	226.2	219.6	218.0	221.5	221.9	224.7	228.0	20- 30	107.3	200.8	19.9,19.9
40	208.8	204.8	197.4	195.4	198.4	199.5	203.5	207.6	30- 40	133.6	334.4	33.1,33.1
50	183.9	179.8	171.6	169.4	171.9	173.3	178.4	183.3	40- 50	146.4	480.8	47.7,47.7
60	157.4	152.3	144.0	142.1	144.3	145.7	151.6	157.2	50- 60	146.0	626.8	62.1,62.1
70	132.8	125.1	116.9	115.8	118.4	118.5	124.9	131.9	60- 70	134.8	761.5	75.5,75.5
80	107.5	104.2	85.85	94.87	94.20	96.65	96.28	111.0	70- 80	117.6	879.2	87.1,87.1
90	70.02	65.67	2.662	60.80	62.22	61.58	11.10	69.35	80- 90	85.29	964.5	95.6,95.6
100	11.03	5.852	2.768	3.258	2.472	1.801	1.438	11.30	90-100	26.54	991.0	98.2,98.2
110	7.168	3.521	2.258	2.811	2.225	1.797	1.910	8.893	100-110	4.625	995.6	98.7,98.7
120	5.517	2.526	2.577	2.625	2.478	2.130	2.165	2.057	110-120	3.405	999.0	99.99
130	2.885	3.399	2.818	2.919	2.819	2.438	2.432	2.238	120-130	2.425	1001	99.3,99.3
140	3.380	3.907	3.012	3.227	3.140	2.885	2.685	2.478	130-140	2.286	1004	99.5,99.5
150	3.741	3.934	3.186	3.567	3.327	3.266	2.939	2.681	140-150	2.007	1006	99.7,99.7
160	3.741	3.306	3.606	3.888	3.574	3.653	3.521	3.129	150-160	1.648	1007	99.9,99.9
170	3.921	3.808	4.048	4.181	3.587	3.987	4.021	3.653	160-170	1.049	1008	100,100
180	3.841	4.442	4.482	4.489	3.847	4.395	4.489	4.482	170-180	0.3843	1009	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:2021-01-14

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:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm		
NAME: FD1282408NO	TYPE:	WEIGHT:
SPEC.:FD1282408NO-8SWNSA012BC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	129696	78281
80	77406	61801
75	58381	50243
70	48532	42721
65	42732	38530
60	39342	36001
55	37193	34456
50	35761	33373
45	34762	32635

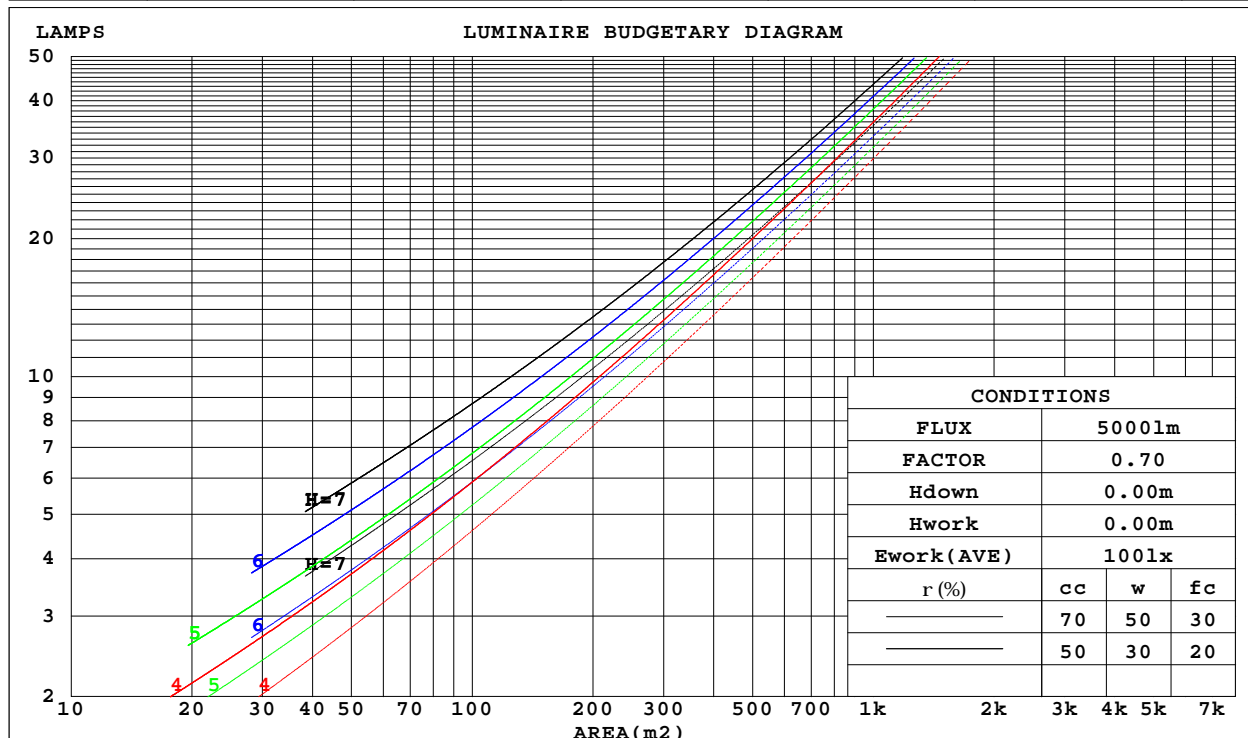
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-01-14

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm		
NAME: FD1282408NO	TYPE:	WEIGHT:
SPEC.:FD1282408NO-8SWNSA012BC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	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:2021-01-14

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm		
NAME: FD1282408NO	TYPE:	WEIGHT:
SPEC.:FD1282408NO-8SWNSA012BC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	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	.224	.224	.224	.191	.191	.191	.131	.131	.131	.075	.075	.075	.024	.024	.024	
1.0	.221	.189	.160	.189	.162	.138	.129	.112	.096	.074	.065	.056	.024	.021	.018	
2.0	.214	.166	.125	.183	.143	.108	.126	.099	.075	.072	.057	.044	.023	.019	.014	
3.0	.206	.149	.103	.177	.128	.089	.121	.089	.063	.070	.052	.037	.023	.017	.012	
4.0	.198	.136	.088	.170	.117	.077	.117	.082	.054	.068	.048	.032	.022	.016	.011	
5.0	.190	.126	.078	.163	.109	.068	.113	.076	.048	.065	.045	.029	.021	.015	.009	
6.0	.182	.118	.071	.157	.102	.062	.108	.071	.044	.063	.042	.026	.020	.014	.009	
7.0	.175	.111	.066	.151	.096	.058	.104	.067	.041	.060	.040	.024	.020	.013	.008	
8.0	.168	.105	.062	.145	.091	.054	.100	.064	.038	.058	.038	.023	.019	.012	.008	
9.0	.161	.100	.059	.139	.087	.051	.096	.061	.037	.056	.036	.022	.018	.012	.007	
10.0	.155	.096	.056	.134	.083	.049	.093	.059	.035	.054	.035	.021	.018	.011	.007	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-14

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm										
NAME: FD1282408NO					TYPE:			WEIGHT:		
SPEC.:FD1282408NO-8SWNSA012BC0100					DIM.: 1000*8*1.5mm			SERIAL No.:		
MFR.: COLORS					SUR.:1000*8mm			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	25.2	26.8	25.5	27.1	27.4	24.8	26.4	25.2	26.7	27.0
3H	27.6	29.1	28.0	29.5	29.8	27.1	28.6	27.5	29.0	29.3
4H	29.0	30.4	29.4	30.8	31.1	28.4	29.8	28.8	30.2	30.5
6H	30.5	31.8	30.9	32.2	32.6	29.7	31.0	30.1	31.4	31.8
8H	31.3	32.6	31.7	33.0	33.4	30.3	31.6	30.7	32.0	32.4
12H	32.2	33.4	32.6	33.8	34.2	30.9	32.1	31.3	32.5	32.9
4H 2H	26.0	27.4	26.4	27.7	28.1	25.7	27.2	26.1	27.5	27.9
3H	28.6	29.9	29.1	30.3	30.7	28.3	29.5	28.7	29.9	30.3
4H	30.2	31.4	30.6	31.8	32.2	29.7	30.8	30.1	31.3	31.7
6H	31.9	32.9	32.3	33.4	33.8	31.2	32.2	31.6	32.7	33.1
8H	32.8	33.8	33.3	34.2	34.7	31.9	32.9	32.4	33.3	33.8
12H	33.8	34.7	34.3	35.2	35.7	32.5	33.5	33.0	33.9	34.4
8H 4H	30.7	31.7	31.2	32.2	32.7	30.3	31.3	30.8	31.8	32.3
6H	32.7	33.6	33.2	34.1	34.6	32.1	33.0	32.6	33.5	34.0
8H	33.8	34.6	34.4	35.1	35.7	33.1	33.8	33.6	34.3	34.9
12H	35.1	35.7	35.6	36.3	36.9	33.9	34.6	34.5	35.1	35.7
12H 4H	30.9	31.8	31.4	32.3	32.8	30.5	31.4	31.0	31.9	32.4
6H	33.0	33.7	33.5	34.3	34.8	32.4	33.2	33.0	33.7	34.3
8H	34.2	34.9	34.8	35.4	36.0	33.5	34.2	34.0	34.7	35.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 1009 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-14

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm		
NAME: FD1282408NO	TYPE:	WEIGHT:
SPEC.:FD1282408NO-8SWNSA012BC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

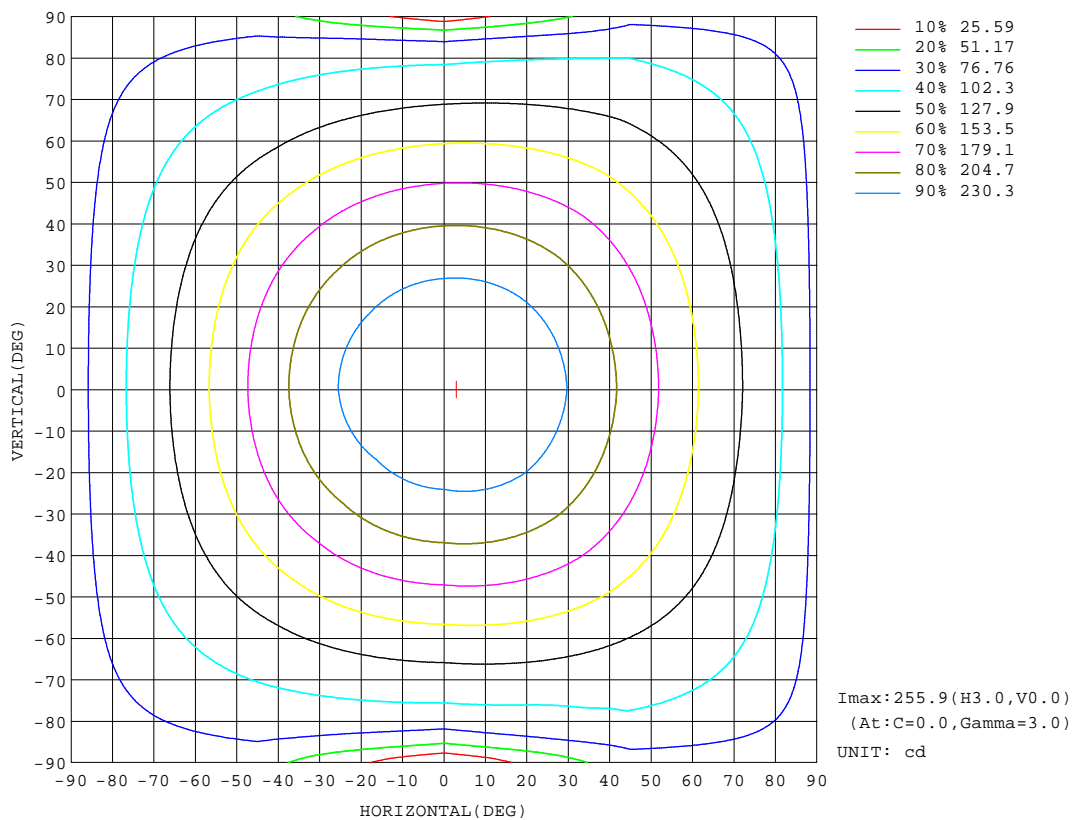
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	39	31	50	38	31	49	38	31	24
0.80	60	47	39	59	47	39	57	46	39	31
1.00	68	56	47	67	55	47	64	56	46	38
1.25	75	63	54	73	62	54	70	60	53	44
1.50	80	68	60	78	67	59	75	65	58	49
2.00	88	77	69	85	75	68	81	73	66	56
2.50	92	82	74	89	80	73	85	77	71	61
3.00	96	87	79	93	85	78	88	81	76	65
4.00	100	93	86	97	91	85	92	87	82	71
5.00	103	97	91	100	94	89	95	90	86	74
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:2021-01-14

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm		
NAME: FD1282408NO	TYPE:	WEIGHT:
SPEC.:FD1282408NO-8SWNSA012BC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:



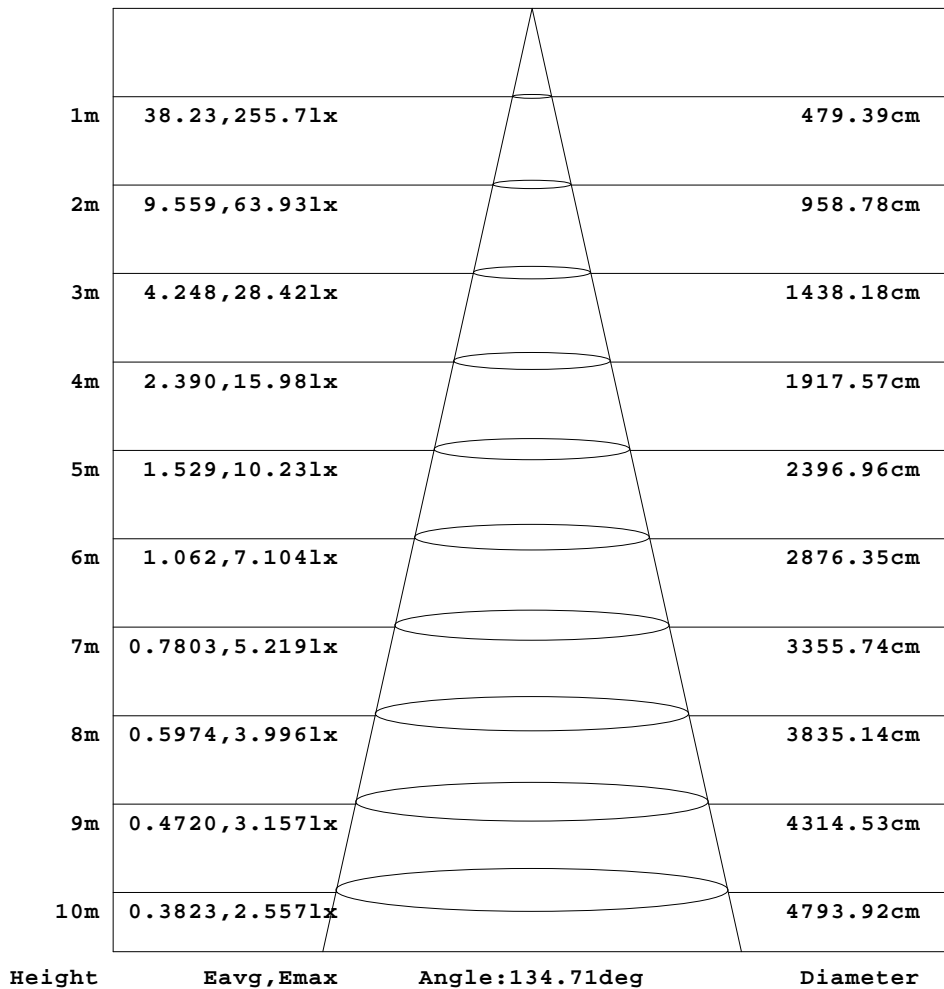
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-14

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm		
NAME: FD1282408NO	TYPE:	WEIGHT:
SPEC.:FD1282408NO-8SWNSA012BC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

Flux out:735.9 lm



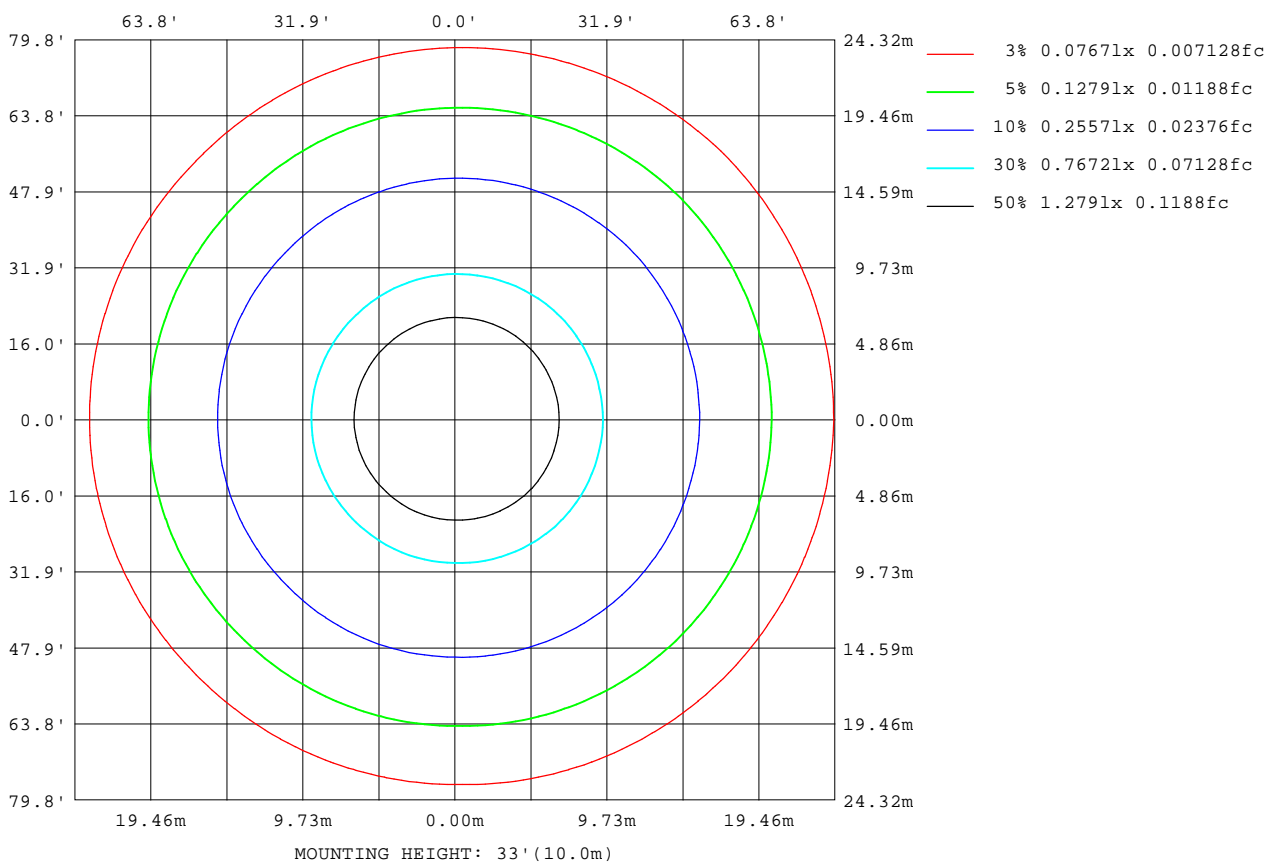
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-01-14

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

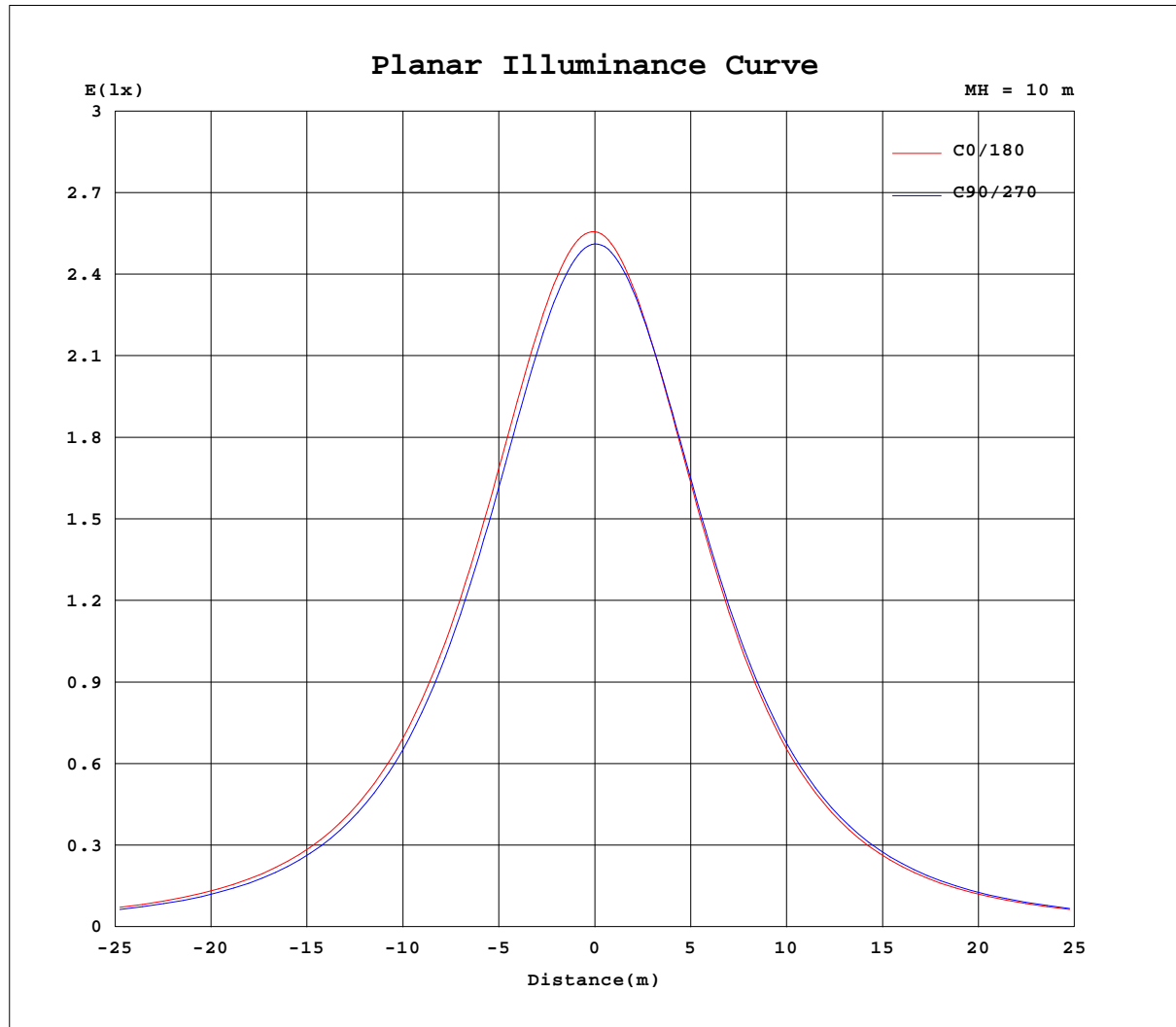
Test:U:24.00V I:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm		
NAME: FD1282408NO	TYPE:	WEIGHT:
SPEC.:FD1282408NO-8SWNSA012BC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-01-14

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: 2021-01-14

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:0.4000A P:9.600W PF:1.000 Freq:0Hz Lamp Flux:1008.82x1 lm		
NAME: FD1282408NO	TYPE:	WEIGHT:
SPEC.:FD1282408NO-8SWNSA012BC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	256	254	251	253	256	254	251	253										
5	256	253	250	251	254	253	251	253										
10	254	251	247	247	251	250	249	251										
15	250	247	243	242	246	245	245	248										
20	245	242	236	235	239	239	240	243										
25	238	235	229	227	231	231	233	236										
30	230	226	220	218	222	222	225	228										
35	220	216	209	207	210	211	215	218										
40	209	205	197	195	198	200	203	208										
45	197	193	185	183	185	187	191	196										
50	184	180	172	169	172	173	178	183										
55	171	166	158	156	158	160	165	170										
60	157	152	144	142	144	146	152	157										
65	144	139	130	129	131	132	138	144										
70	133	125	117	116	118	118	125	132										
75	121	114	104	105	106	107	113	122										
80	108	104	85.9	94.9	94.2	96.6	96.3	111										
85	90.4	91.2	54.6	83.1	79.9	85.5	68.7	94.4										
90	70.0	65.7	2.66	60.8	62.2	61.6	11.1	69.3										
95	44.2	23.1	2.76	24.5	41.0	20.4	1.05	26.2										
100	11.0	5.85	2.77	3.26	2.47	1.80	1.44	11.3										
105	8.17	5.36	2.59	2.99	2.14	1.75	1.77	10.2										
110	7.17	3.52	2.26	2.81	2.22	1.80	1.91	8.89										
115	5.93	3.06	2.44	2.50	2.30	1.92	2.05	8.58										
120	5.52	2.53	2.58	2.63	2.48	2.13	2.16	2.06										
125	4.11	2.67	2.76	2.77	2.65	2.29	2.29	2.10										
130	2.89	3.40	2.82	2.92	2.82	2.44	2.43	2.24										
135	3.12	4.05	2.97	3.06	3.01	2.64	2.57	2.43										
140	3.38	3.91	3.01	3.23	3.14	2.89	2.69	2.48										
145	3.59	3.83	3.07	3.39	3.25	3.10	2.82	2.54										
150	3.74	3.93	3.19	3.57	3.33	3.27	2.94	2.68										
155	3.81	4.03	3.34	3.73	3.45	3.51	3.22	4.86										
160	3.74	3.31	3.61	3.89	3.57	3.65	3.52	3.13										
165	3.84	3.50	3.85	4.01	3.70	3.85	3.79	3.22										
170	3.92	3.81	4.05	4.18	3.59	3.99	4.02	3.65										
175	3.75	4.14	4.27	4.36	3.57	4.17	4.28	4.16										
180	3.84	4.44	4.48	4.49	3.85	4.40	4.49	4.48										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-14

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: