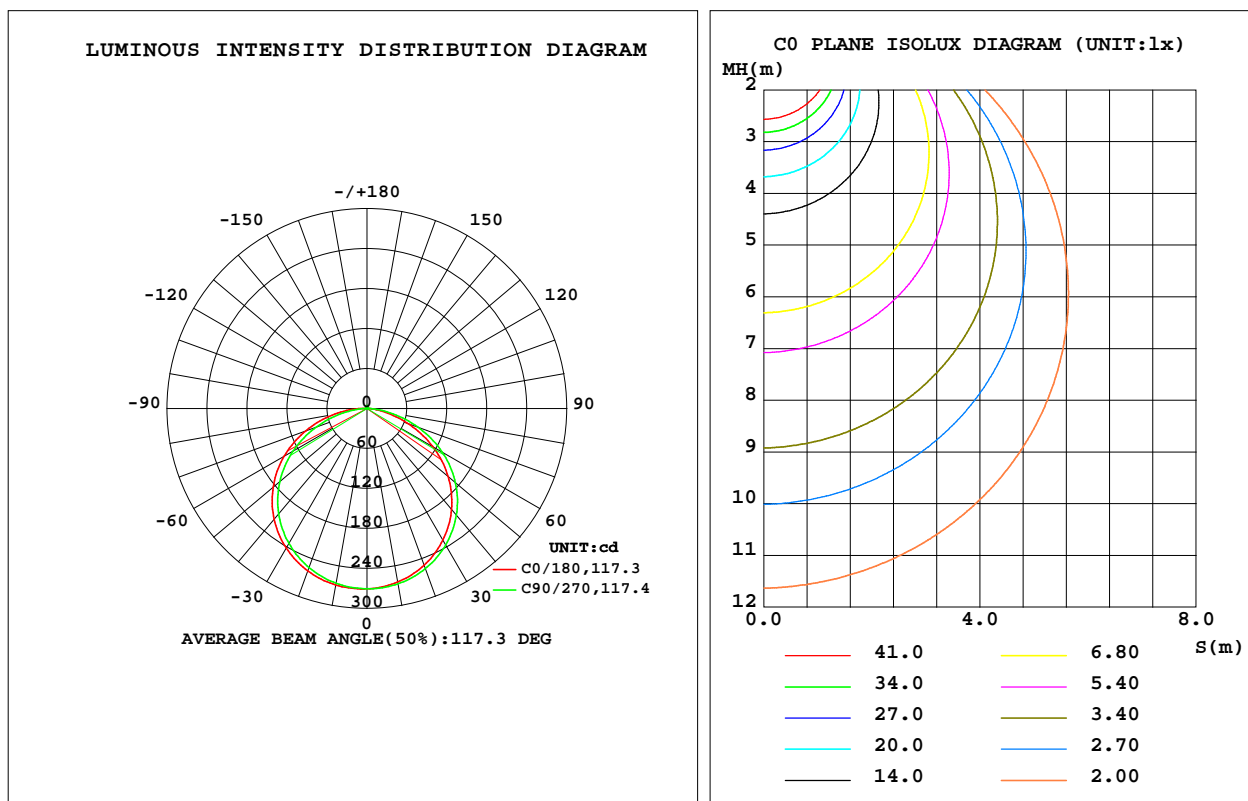


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.98lx1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 113.11 lm/W			
MODEL	D62802408NO	I _{max} (cd)	271.0	S/MH(C0/180)	1.25
NOMINAL POWER(W)	7.5	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	831.98	h UP,DN(C0-180)	0.9,48.3
NOMINAL FLUX(lm)	831.981	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.8,50.0
LAMPS INSIDE	1	h up(%)	1.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	98.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-08

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:

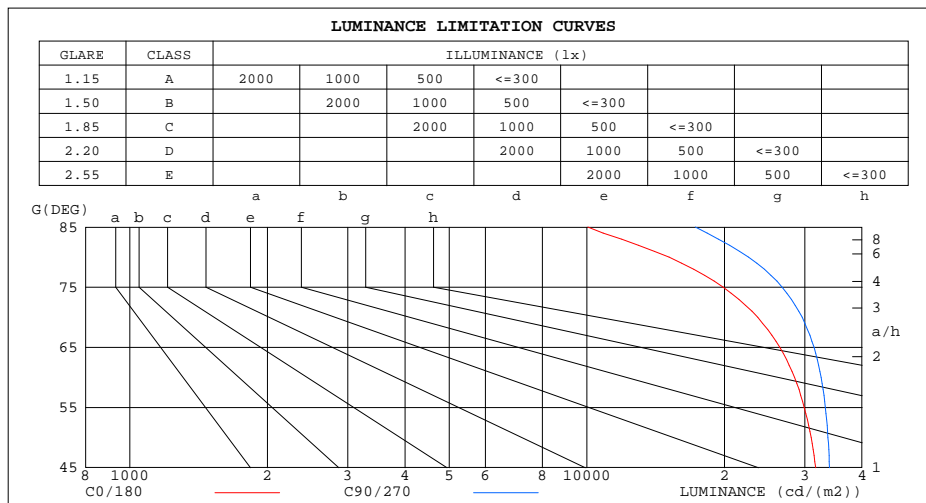
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	264.6	265.9	267.2	268.9	269.1	268.3	266.3	264.6	0- 10	25.66	25.66	3.08,3.08
20	250.5	253.0	255.9	259.4	259.5	257.9	254.2	250.7	10- 20	74.00	99.66	12,12
30	228.1	231.8	236.5	242.0	242.1	239.6	234.2	228.8	20- 30	113.5	213.2	25.6,25.6
40	197.6	202.4	208.9	216.5	216.9	213.5	206.4	198.9	30- 40	139.2	352.4	42.4,42.4
50	159.2	165.0	173.3	183.1	183.9	179.9	170.9	161.3	40- 50	147.1	499.5	60,60
60	113.9	120.2	130.2	142.4	143.7	139.2	128.4	117.1	50- 60	135.4	634.9	76.3,76.3
70	64.71	70.38	80.96	95.27	97.54	92.73	80.32	68.17	60- 70	104.5	739.4	88.9,88.9
80	21.02	24.30	31.38	45.57	49.15	44.56	32.20	22.98	70- 80	60.09	799.5	96.1,96.1
90	2.062	2.253	1.493	7.250	10.09	8.469	0.7332	1.775	80- 90	18.05	817.5	98.3,98.3
100	1.202	1.176	0.9284	0.9552	1.453	0.5212	0.6620	0.8140	90-100	2.124	819.7	98.5,98.5
110	1.842	1.765	1.396	1.316	1.137	1.028	1.338	1.409	100-110	1.181	820.8	98.7,98.7
120	2.543	2.458	2.197	1.937	1.791	1.628	1.891	2.024	110-120	1.723	822.6	98.9,98.9
130	3.092	2.967	2.725	2.492	2.431	2.210	2.331	2.531	120-130	2.092	824.6	99.1,99.1
140	3.500	3.313	3.145	2.972	2.933	2.791	2.645	2.779	130-140	2.176	826.8	99.4,99.4
150	3.820	3.487	3.386	3.474	3.280	3.358	3.026	2.919	140-150	1.992	828.8	99.6,99.6
160	4.080	3.667	3.827	3.922	3.667	3.834	3.721	3.272	150-160	1.632	830.4	99.8,99.8
170	4.275	4.128	4.368	4.315	3.807	4.227	4.335	4.041	160-170	1.121	831.6	100,100
180	4.168	4.756	4.796	4.849	4.161	4.736	4.829	4.829	170-180	0.4129	832.0	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:2021-01-08

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:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.981x1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	10044	17282
80	15129	22589
75	19885	26760
70	23651	29589
65	26441	31407
60	28468	32545
55	29914	33269
50	30956	33704
45	31694	33965

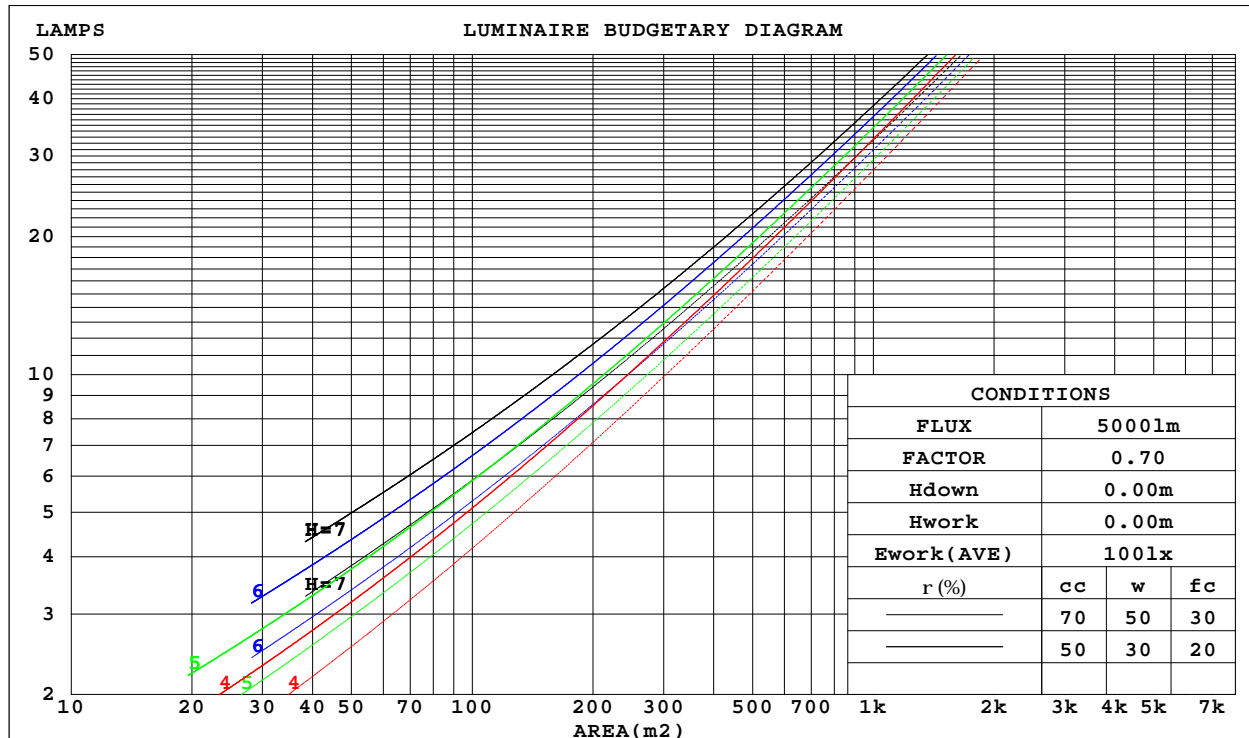
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2021-01-08

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:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.981x1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	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 Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.78	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.78	.70	.63	.77	.69	.63	.73	.67	.61	.70	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.54	.68	.59	.53	.65	.58	.52	.63	.56	.51	.60	.55	.50	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.49	.44	.54	.48	.44	.41
6.0	.55	.46	.40	.54	.46	.40	.52	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.44	.38	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-08

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:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.981x1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.194	.169	.147	.166	.145	.127	.114	.100	.088	.065	.058	.051	.021	.019	.016	
2.0	.186	.145	.111	.160	.125	.096	.109	.087	.067	.063	.050	.039	.020	.016	.013	
3.0	.179	.128	.087	.153	.110	.076	.105	.077	.053	.061	.045	.031	.020	.015	.010	
4.0	.171	.115	.071	.147	.099	.062	.101	.069	.044	.058	.040	.026	.019	.013	.009	
5.0	.164	.104	.060	.141	.090	.053	.097	.063	.037	.056	.037	.022	.018	.012	.007	
6.0	.157	.096	.053	.135	.083	.046	.093	.058	.032	.054	.034	.019	.017	.011	.006	
7.0	.150	.089	.047	.129	.077	.041	.089	.054	.029	.052	.032	.017	.017	.010	.006	
8.0	.143	.083	.042	.123	.072	.037	.085	.051	.026	.050	.030	.016	.016	.010	.005	
9.0	.137	.078	.039	.118	.068	.034	.082	.048	.024	.048	.028	.014	.015	.009	.005	
10.0	.131	.074	.036	.113	.064	.031	.079	.045	.022	.046	.027	.013	.015	.009	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-08

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:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.981x1 lm											
NAME: D62802408NO					TYPE:			WEIGHT:			
SPEC.:D62802408NO-9SWWNSA012WC0100					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	25.0	26.6	25.3	26.8	27.0	25.5	27.0	25.8	27.3	27.5	
	3H	26.3	27.7	26.7	28.0	28.3	27.0	28.4	27.4	28.7	29.0
	4H	26.8	28.1	27.1	28.4	28.7	27.6	28.9	27.9	29.2	29.5
	6H	27.0	28.2	27.3	28.5	28.9	28.0	29.2	28.3	29.5	29.9
	8H	27.0	28.2	27.4	28.5	28.9	28.1	29.3	28.4	29.6	29.9
	12H	27.0	28.2	27.4	28.5	28.9	28.1	29.3	28.5	29.6	30.0
4H	2H	25.7	27.0	26.0	27.3	27.6	26.0	27.3	26.4	27.6	27.9
	3H	27.1	28.3	27.5	28.6	28.9	27.7	28.9	28.1	29.2	29.5
	4H	27.6	28.7	28.0	29.1	29.4	28.4	29.4	28.8	29.8	30.2
	6H	28.0	28.9	28.4	29.3	29.7	28.9	29.8	29.3	30.2	30.6
	8H	28.0	28.9	28.5	29.3	29.7	29.0	29.9	29.4	30.3	30.7
	12H	28.1	28.9	28.5	29.3	29.7	29.1	29.9	29.5	30.3	30.8
8H	4H	27.9	28.7	28.3	29.1	29.6	28.5	29.4	29.0	29.8	30.2
	6H	28.3	29.0	28.8	29.5	29.9	29.1	29.9	29.6	30.3	30.8
	8H	28.4	29.1	28.9	29.5	30.0	29.3	30.0	29.8	30.4	30.9
	12H	28.5	29.0	29.0	29.5	30.0	29.5	30.0	30.0	30.5	31.0
12H	4H	27.9	28.7	28.3	29.1	29.5	28.5	29.3	29.0	29.7	30.2
	6H	28.3	29.0	28.8	29.4	29.9	29.1	29.8	29.6	30.2	30.7
	8H	28.5	29.0	29.0	29.5	30.0	29.4	29.9	29.9	30.4	30.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 832.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.6)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-08

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:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.981x1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

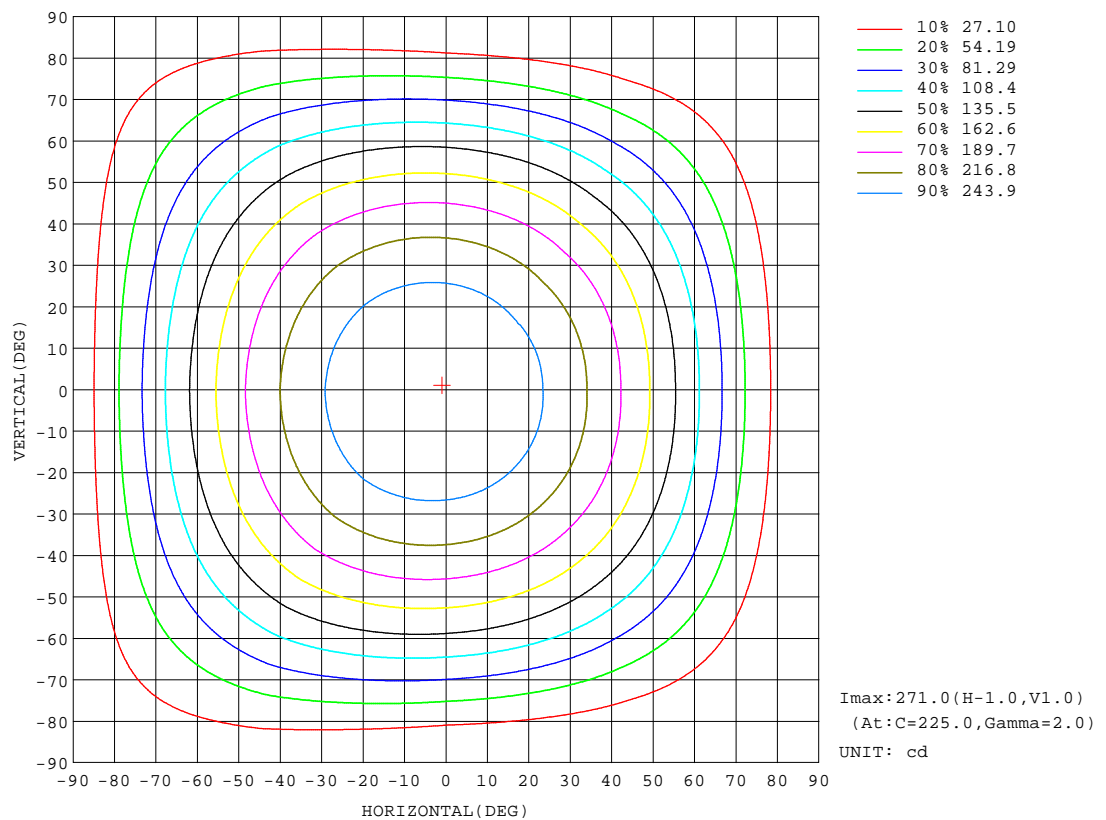
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	44	37	30
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	63	56	73	63	56	71	64	55	47
1.25	82	71	64	80	70	63	77	69	62	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	78	92	84	78	88	81	76	68
2.50	98	90	84	96	88	83	92	85	81	72
3.00	101	94	89	99	93	87	95	89	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	100	97	94	84
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:2021-01-08

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:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.98lx1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:



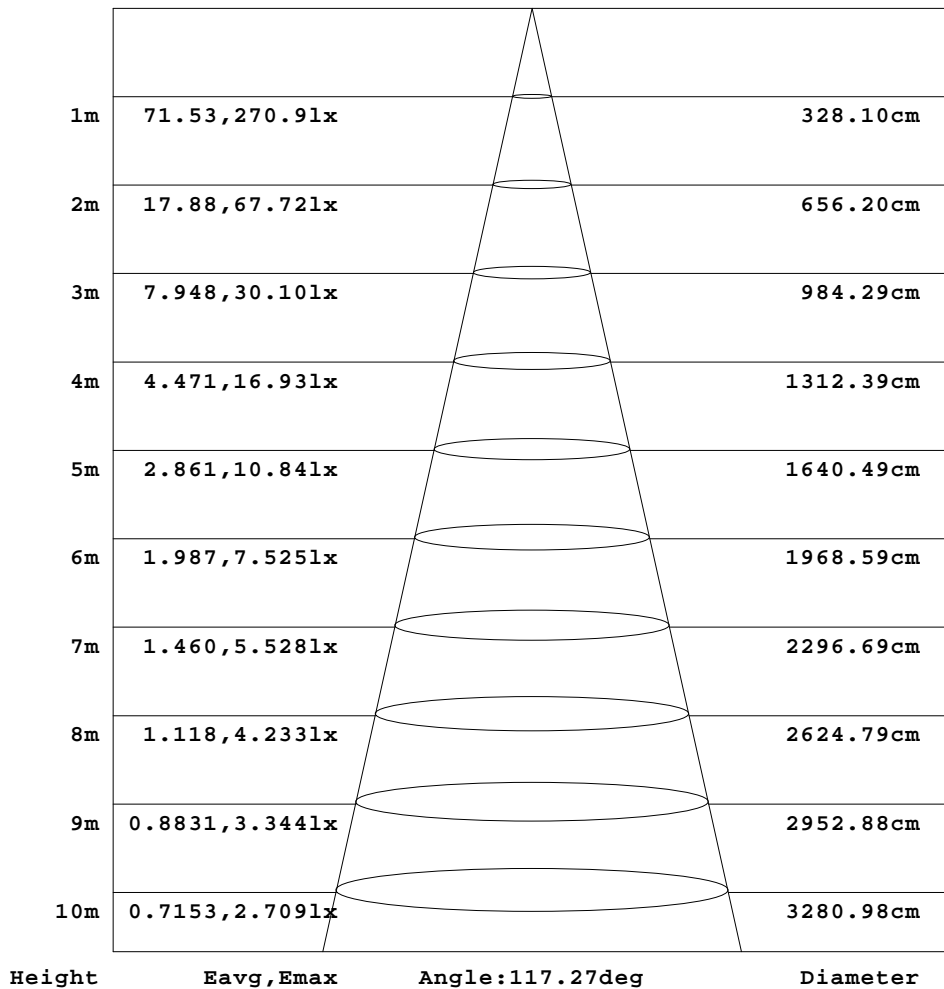
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-08

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:

AAI Figure

Test:U:24.00V I:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.98lx1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

Flux out:622.4 lm



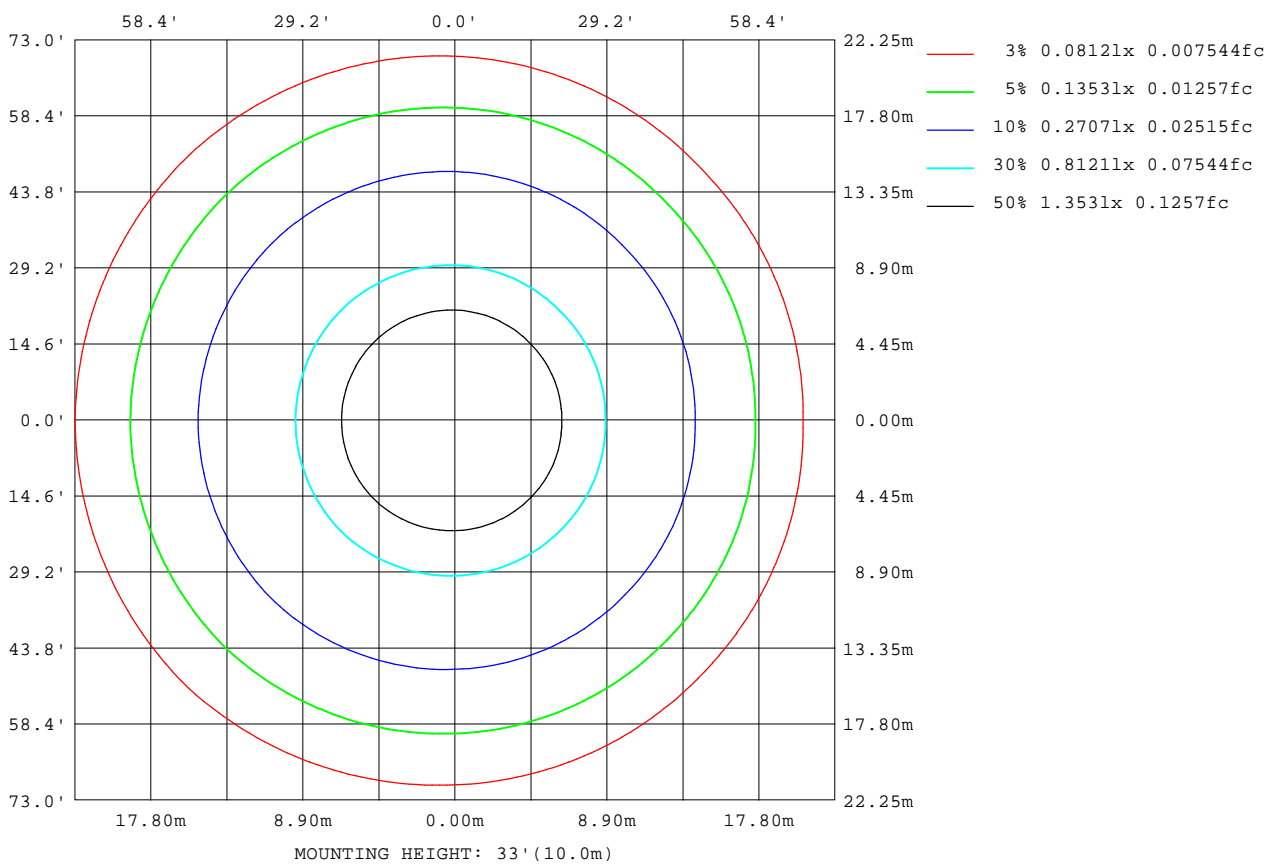
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-08

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:

ISOLUX DIAGRAM

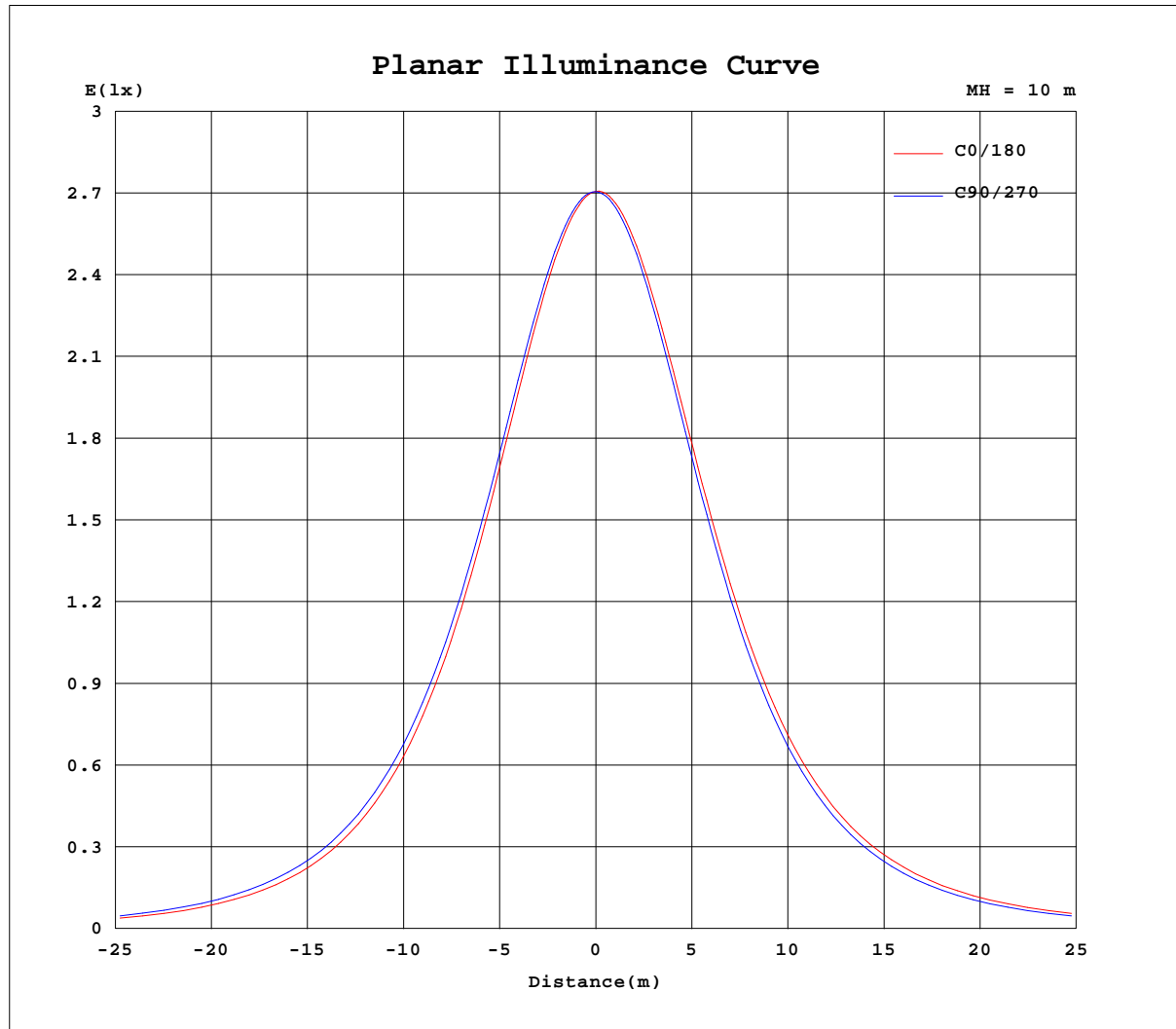
Test:U:24.00V I:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.98lx1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-08

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2021-01-08

deg Range: 0 - 180DEG
deg 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:0.3065A P:7.355W PF:1.000 Freq:0Hz Lamp Flux:831.981x1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	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	271	271	270	271	271	271	270	271										
5	269	269	270	271	271	271	269	269										
10	265	266	267	269	269	268	266	265										
15	259	260	263	265	265	264	261	259										
20	250	253	256	259	260	258	254	251										
25	240	243	247	252	252	250	245	241										
30	228	232	236	242	242	240	234	229										
35	214	218	224	230	230	228	221	215										
40	198	202	209	216	217	214	206	199										
45	179	185	192	201	201	198	190	181										
50	159	165	173	183	184	180	171	161										
55	137	143	153	164	165	160	150	140										
60	114	120	130	142	144	139	128	117										
65	89.4	95.7	106	120	121	117	105	92.8										
70	64.7	70.4	81.0	95.3	97.5	92.7	80.3	68.2										
75	41.2	45.8	55.4	70.2	73.2	68.2	55.6	44.1										
80	21.0	24.3	31.4	45.6	49.1	44.6	32.2	23.0										
85	7.00	8.88	12.0	23.8	26.7	23.5	12.8	7.83										
90	2.06	2.25	1.49	7.25	10.1	8.47	0.73	1.77										
95	1.66	1.35	0.94	2.16	3.58	2.38	0.33	0.95										
100	1.20	1.18	0.93	0.96	1.45	0.52	0.66	0.81										
105	1.45	1.43	1.05	1.08	0.80	0.74	1.00	1.12										
110	1.84	1.77	1.40	1.32	1.14	1.03	1.34	1.41										
115	2.21	2.11	1.80	1.62	1.46	1.37	1.64	1.71										
120	2.54	2.46	2.20	1.94	1.79	1.63	1.89	2.02										
125	2.84	2.74	2.46	2.24	2.10	1.92	2.11	2.31										
130	3.09	2.97	2.73	2.49	2.43	2.21	2.33	2.53										
135	3.33	3.17	2.97	2.73	2.70	2.53	2.51	2.66										
140	3.50	3.31	3.15	2.97	2.93	2.79	2.65	2.78										
145	3.69	3.40	3.29	3.21	3.13	3.08	2.79	2.88										
150	3.82	3.49	3.39	3.47	3.28	3.36	3.03	2.92										
155	3.92	3.56	3.55	3.71	3.48	3.61	3.37	3.08										
160	4.08	3.67	3.83	3.92	3.67	3.83	3.72	3.27										
165	4.25	3.83	4.17	4.10	3.87	4.05	4.04	3.63										
170	4.27	4.13	4.37	4.31	3.81	4.23	4.34	4.04										
175	4.09	4.46	4.62	4.57	3.81	4.47	4.62	4.46										
180	4.17	4.76	4.80	4.85	4.16	4.74	4.83	4.83										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2021-01-08

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: