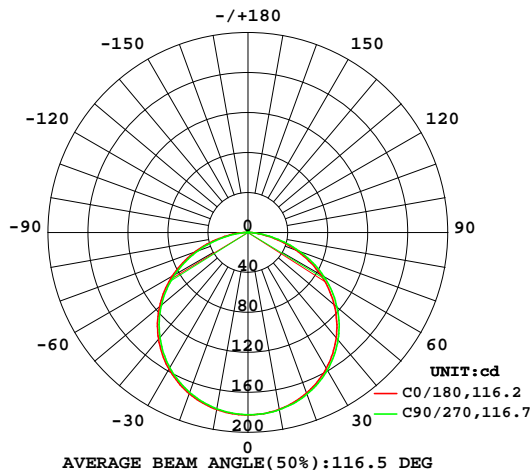


LUMINAIRE PHOTOMETRIC TEST REPORT

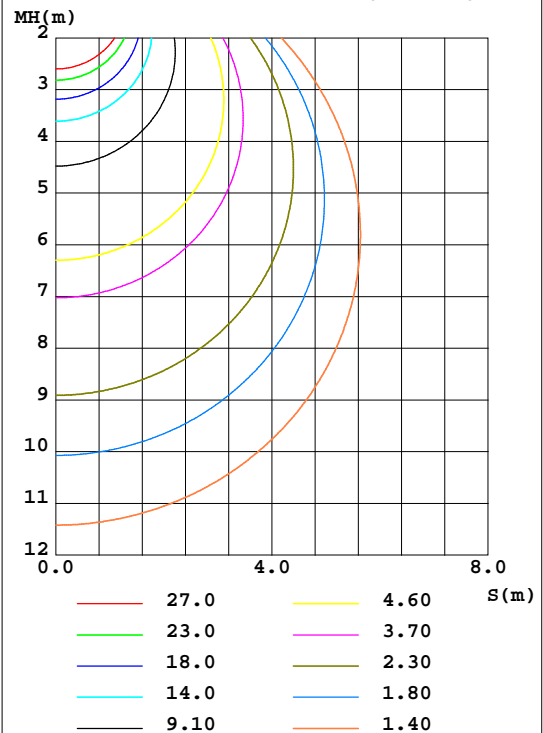
Test:U:48.00V I:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm		
NAME: D8804810NO	TYPE:	WEIGHT:
SPEC.:D8804810NO-9NWDA012WC0100	DIM.: 1000*10*1.5	SERIAL No.:01
MFR.: COLORS	SUR.:1000*10	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.76 lm/W			
MODEL	D8804810NO	I _{max} (cd)	182.6	S/MH(C0/180)	1.29
NOMINAL POWER(W)	5.8	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	551.51	h UP,DN(C0-180)	0.8,49.4
NOMINAL FLUX(lm)	551.507	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.7,49.1
LAMPS INSIDE	1	h up(%)	1.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	48	h down(%)	98.5	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:2020-04-27

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:

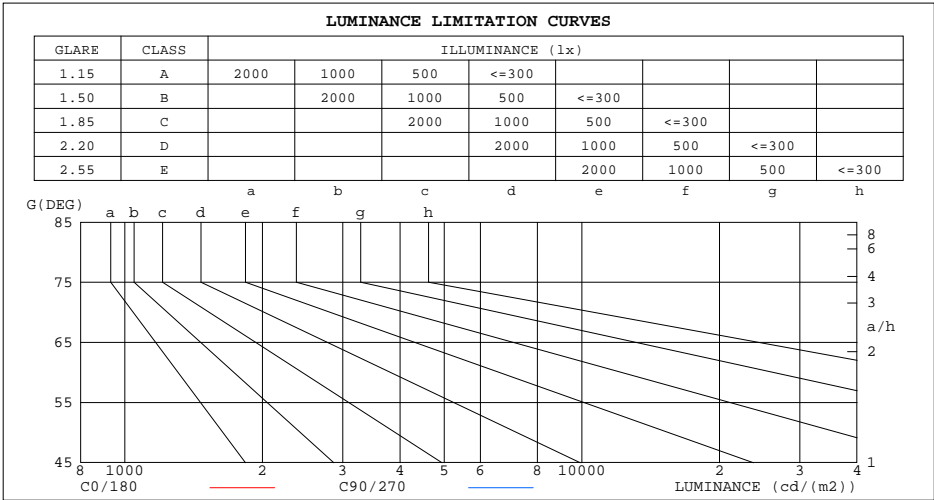
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	179.6	180.6	180.1	179.7	179.9	178.9	179.1	179.7	0~ 10	17.29	17.29	3.13,3.13
20	171.1	173.1	172.3	171.4	171.7	169.9	170.3	171.4	10~ 20	49.77	67.05	12.2,12.2
30	157.0	159.9	159.0	157.7	158.1	155.6	156.3	157.6	20~ 30	76.16	143.2	26,26
40	137.5	141.2	140.3	138.7	139.3	136.2	137.1	138.6	30~ 40	93.07	236.3	42.8,42.8
50	112.8	117.2	116.3	114.6	115.7	112.0	113.2	114.5	40~ 50	98.06	334.3	60.6,60.6
60	83.52	88.41	87.50	85.86	87.58	83.54	84.67	85.88	50~ 60	89.98	424.3	76.9,76.9
70	50.81	55.68	54.82	53.47	56.00	51.86	52.71	53.74	60~ 70	69.25	493.6	89.5,89.5
80	18.60	22.54	21.48	20.91	23.94	20.47	20.69	21.49	70~ 80	39.17	532.7	96.6,96.6
90	1.621	2.084	0.7499	1.597	2.553	1.652	0.2919	1.734	80~ 90	10.32	543.1	98.5,98.5
100	0.5544	0.6215	0.5678	0.6146	0.3880	0.3867	0.4149	0.3996	90~100	0.6716	543.7	98.6,98.6
110	1.008	0.9821	0.9280	0.9352	0.8026	0.7343	0.8430	0.7344	100~110	0.7074	544.4	98.7,98.7
120	1.409	1.416	1.382	1.303	1.202	1.142	1.196	1.134	110~120	1.064	545.5	98.9,98.9
130	1.783	1.764	1.776	1.677	1.570	1.509	1.496	1.376	120~130	1.298	546.8	99.1,99.1
140	2.117	1.997	2.004	2.031	1.884	1.890	1.710	1.596	130~140	1.366	548.2	99.4,99.4
150	2.338	2.144	2.197	2.398	2.132	2.318	1.991	1.797	140~150	1.270	549.4	99.6,99.6
160	2.578	2.299	2.530	2.712	2.438	2.630	2.452	2.037	150~160	1.061	550.5	99.8,99.8
170	2.772	2.652	2.872	2.952	2.565	2.852	2.852	2.565	160~170	0.7376	551.2	100,100
180	2.765	3.113	3.199	3.153	2.772	3.106	3.199	3.126	170~180	0.2729	551.5	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:2020-04-27

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:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm		
NAME: D8804810NO	TYPE:	WEIGHT:
SPEC.:D8804810NO-9NWDA012WC0100	DIM.: 1000*10*1.5	SERIAL No.:01
MFR.: COLORS	SUR.:1000*10	Shielding Angle:



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	78112	90769
80	107134	123701
75	131436	145925
70	148563	160282
65	159562	169266
60	167039	174997
55	172161	178778
50	175461	180958
45	177798	182413

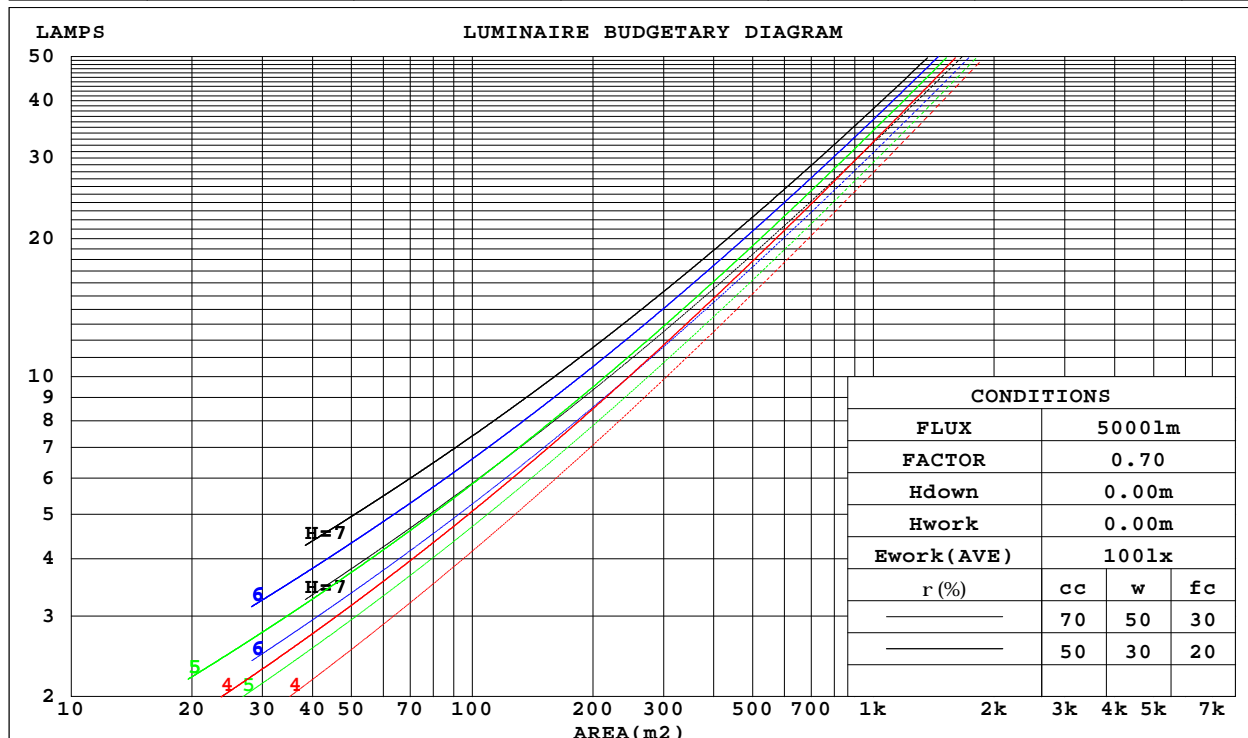
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-27

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:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm		
NAME: D8804810NO	TYPE:	WEIGHT:
SPEC.:D8804810NO-9NWD012WC0100	DIM.: 1000*10*1.5	SERIAL No.:01
MFR.: COLORS	SUR.:1000*10	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:2020-04-27

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:

WEC AND CCEC

Test:U:48.00V I:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm		
NAME: D8804810NO	TYPE:	WEIGHT:
SPEC.:D8804810NO-9NWDA012WC0100	DIM.: 1000*10*1.5	SERIAL No.:01
MFR.: COLORS	SUR.:1000*10	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	.312 .178 .056	.305 .174 .055	.290 .167 .053	.277 .160 .051	.265 .154 .050	
2.0	.294 .161 .049	.287 .158 .049	.275 .153 .047	.263 .148 .046	.252 .143 .045	
3.0	.272 .145 .043	.266 .142 .043	.255 .138 .042	.245 .134 .041	.235 .130 .040	
4.0	.251 .130 .038	.246 .128 .038	.236 .125 .037	.226 .122 .037	.218 .118 .036	
5.0	.232 .118 .034	.227 .117 .034	.218 .114 .033	.210 .111 .033	.202 .108 .032	
6.0	.215 .108 .031	.211 .106 .031	.203 .104 .030	.195 .102 .030	.188 .099 .029	
7.0	.200 .099 .028	.196 .098 .028	.189 .096 .028	.182 .093 .027	.176 .092 .027	
8.0	.186 .091 .026	.183 .090 .025	.177 .088 .025	.171 .087 .025	.165 .085 .025	
9.0	.175 .085 .024	.172 .084 .023	.166 .082 .023	.161 .080 .023	.155 .079 .023	
10.0	.164 .079 .022	.161 .078 .022	.156 .077 .022	.151 .075 .021	.147 .074 .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	.202 .202 .202	.173 .173 .173	.118 .118 .118	.068 .068 .068	.022 .022 .022	
1.0	.192 .168 .146	.164 .144 .126	.113 .099 .087	.065 .057 .051	.021 .018 .016	
2.0	.184 .144 .110	.158 .124 .095	.108 .086 .066	.062 .050 .039	.020 .016 .013	
3.0	.177 .126 .086	.152 .109 .075	.104 .076 .052	.060 .044 .031	.019 .014 .010	
4.0	.169 .113 .070	.145 .098 .061	.100 .068 .043	.058 .040 .025	.019 .013 .008	
5.0	.162 .103 .059	.139 .089 .051	.096 .062 .036	.055 .036 .021	.018 .012 .007	
6.0	.155 .094 .051	.133 .082 .044	.092 .057 .031	.053 .034 .019	.017 .011 .006	
7.0	.148 .087 .045	.127 .076 .039	.088 .053 .028	.051 .031 .017	.016 .010 .005	
8.0	.141 .082 .041	.122 .071 .035	.084 .050 .025	.049 .029 .015	.016 .010 .005	
9.0	.135 .077 .037	.117 .067 .032	.081 .047 .023	.047 .028 .014	.015 .009 .005	
10.0	.130 .072 .034	.112 .063 .030	.077 .044 .021	.045 .026 .013	.015 .009 .004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-27

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:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm										
NAME: D8804810NO					TYPE:			WEIGHT:		
SPEC.:D8804810NO-9NWDA012WC0100					DIM.: 1000*10*1.5			SERIAL No.:01		
MFR.: COLORS					SUR.:1000*10			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	32.9	34.4	33.2	34.6	34.9	33.0	34.5	33.3	34.8	35.0
3H	34.3	35.7	34.7	36.0	36.3	34.6	36.0	34.9	36.2	36.5
4H	34.9	36.2	35.2	36.5	36.8	35.2	36.5	35.5	36.8	37.1
6H	35.2	36.5	35.6	36.8	37.1	35.6	36.8	35.9	37.1	37.4
8H	35.3	36.5	35.7	36.8	37.1	35.7	36.9	36.0	37.2	37.5
12H	35.3	36.5	35.7	36.8	37.1	35.7	36.9	36.1	37.2	37.5
4H 2H	33.5	34.9	33.9	35.1	35.4	33.7	35.0	34.0	35.3	35.6
3H	35.2	36.4	35.6	36.7	37.0	35.4	36.6	35.8	36.9	37.2
4H	35.9	36.9	36.3	37.3	37.6	36.1	37.2	36.5	37.5	37.9
6H	36.3	37.2	36.7	37.6	38.0	36.6	37.6	37.0	37.9	38.3
8H	36.4	37.3	36.9	37.7	38.1	36.8	37.6	37.2	38.0	38.5
12H	36.5	37.3	36.9	37.7	38.1	36.8	37.6	37.3	38.1	38.5
8H 4H	36.1	37.0	36.6	37.4	37.8	36.4	37.2	36.8	37.6	38.1
6H	36.7	37.5	37.2	37.9	38.3	37.0	37.7	37.5	38.2	38.6
8H	36.9	37.6	37.4	38.0	38.5	37.2	37.9	37.7	38.3	38.8
12H	37.0	37.6	37.5	38.1	38.6	37.4	37.9	37.9	38.4	38.9
12H 4H	36.1	37.0	36.6	37.4	37.8	36.4	37.2	36.8	37.6	38.0
6H	36.8	37.4	37.3	37.9	38.4	37.1	37.7	37.5	38.2	38.6
8H	37.0	37.6	37.5	38.0	38.5	37.3	37.9	37.8	38.3	38.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 551.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.1)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-27

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:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm		
NAME: D8804810NO	TYPE:	WEIGHT:
SPEC.:D8804810NO-9NWDA012WC0100	DIM.: 1000*10*1.5	SERIAL No.:01
MFR.: COLORS	SUR.:1000*10	Shielding Angle:

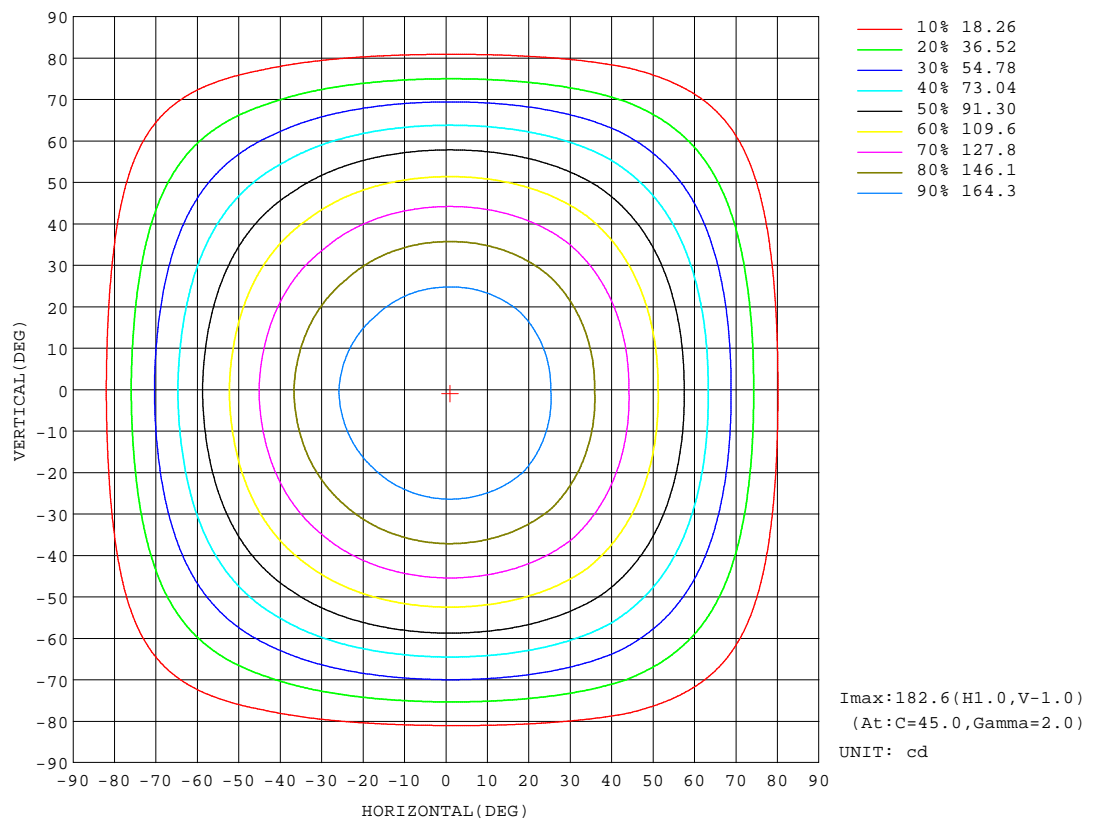
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	45	38	56	44	38	54	44	37	31
0.80	66	55	47	65	54	47	63	53	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	81	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	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	95	89	99	93	88	95	90	85	76
4.00	106	100	95	103	98	94	99	94	91	81
5.00	108	103	99	106	101	97	101	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:2020-04-27

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:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm		
NAME: D8804810NO	TYPE:	WEIGHT:
SPEC.:D8804810NO-9NWDA012WC0100	DIM.: 1000*10*1.5	SERIAL No.:01
MFR.: COLORS	SUR.:1000*10	Shielding Angle:



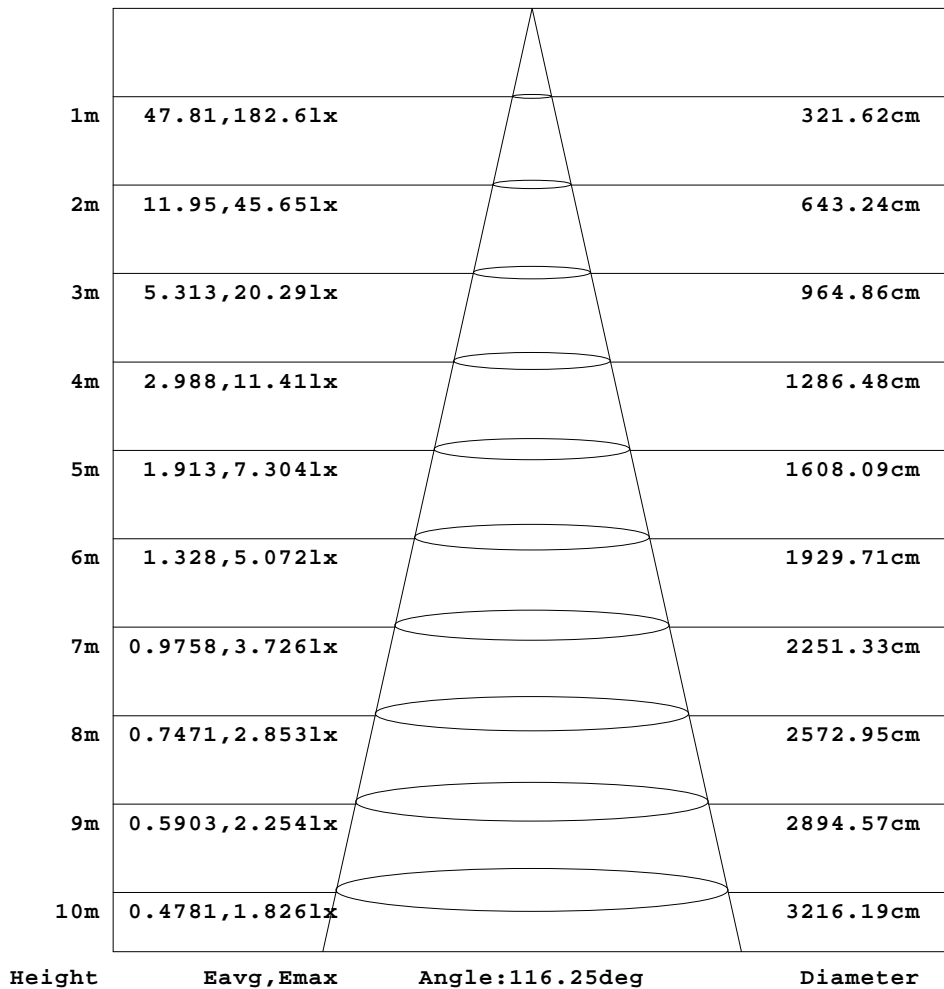
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-27

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:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm		
NAME: D8804810NO	TYPE:	WEIGHT:
SPEC.:D8804810NO-9NWDA012WC0100	DIM.: 1000*10*1.5	SERIAL No.:01
MFR.: COLORS	SUR.:1000*10	Shielding Angle:

Flux out:416.1 lm



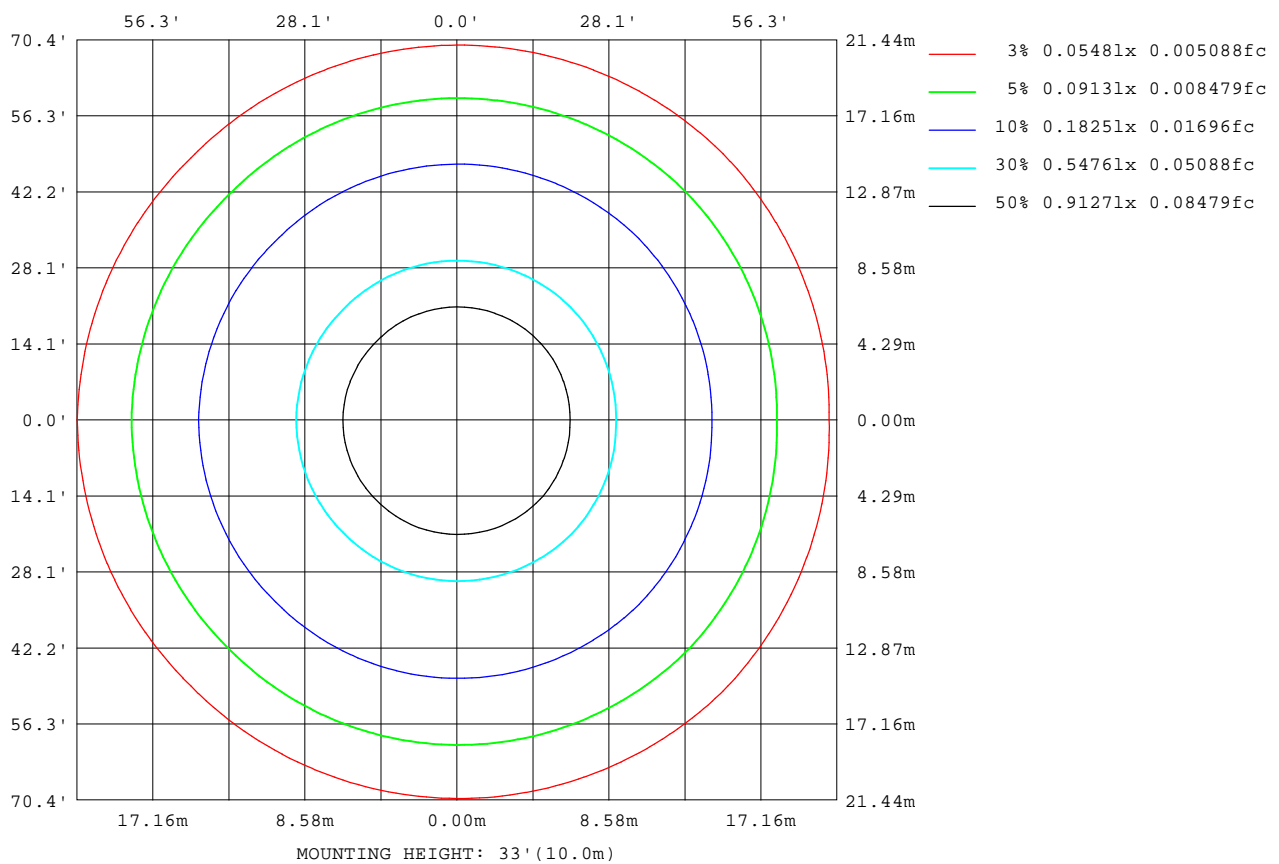
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-27

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

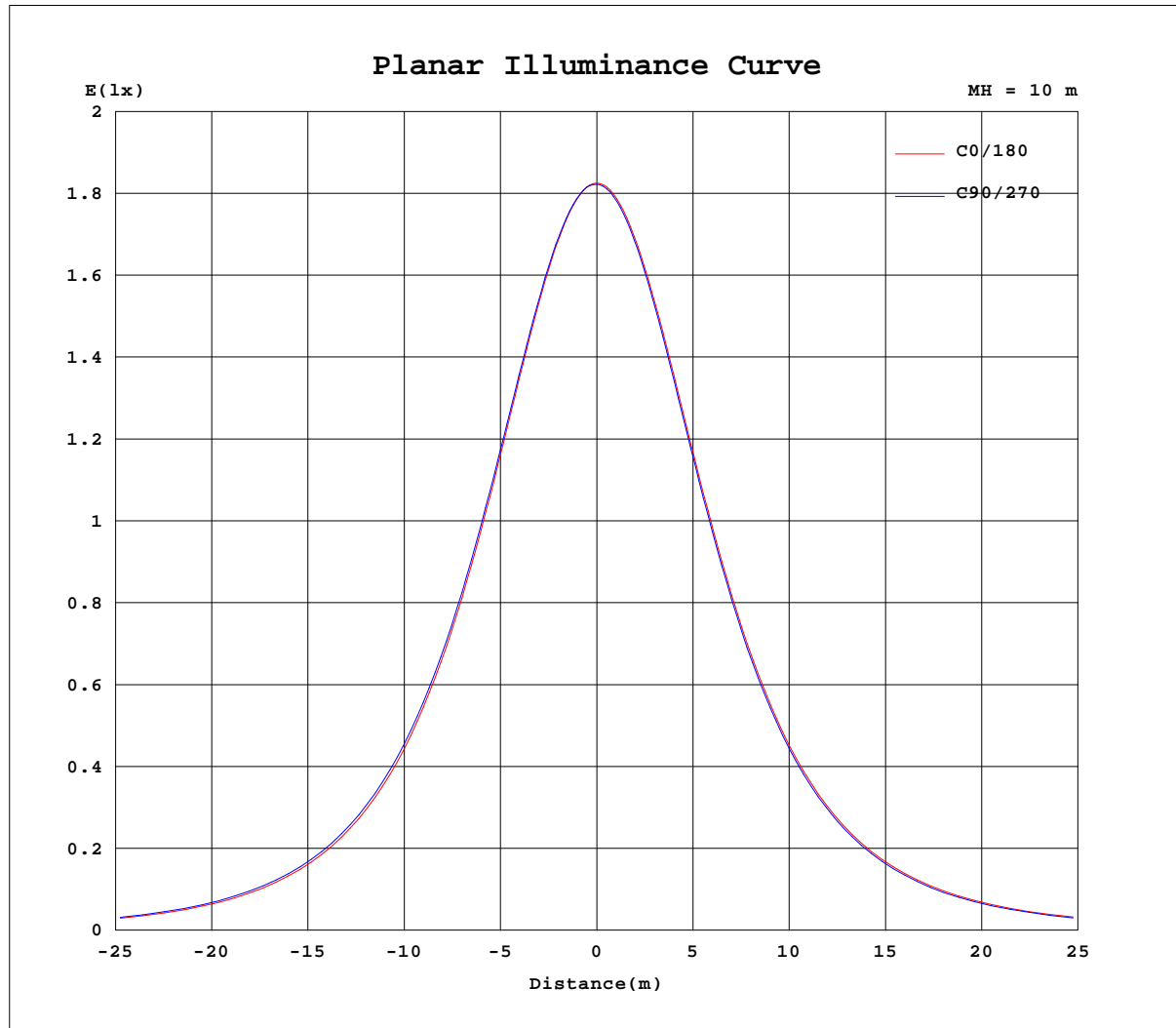
Test:U:48.00V I:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm		
NAME: D8804810NO	TYPE:	WEIGHT:
SPEC.:D8804810NO-9NWDA012WC0100	DIM.: 1000*10*1.5	SERIAL No.:01
MFR.: COLORS	SUR.:1000*10	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-27

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: 2020-04-27

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:0.1190A P:5.700W PF:1.000 Freq:0Hz Lamp Flux:551.507x1 lm		
NAME: D8804810NO	TYPE:	WEIGHT:
SPEC.:D8804810NO-9NWDA012WC0100	DIM.: 1000*10*1.5	SERIAL No.:01
MFR.: COLORS	SUR.:1000*10	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	183	183	182	182	183	183	182	182										
5	182	182	182	182	182	181	181	182										
10	180	181	180	180	180	179	179	180										
15	176	178	177	176	176	175	175	176										
20	171	173	172	171	172	170	170	171										
25	165	167	166	165	165	163	164	165										
30	157	160	159	158	158	156	156	158										
35	148	151	150	149	149	147	147	149										
40	137	141	140	139	139	136	137	139										
45	126	130	129	127	128	125	126	127										
50	113	117	116	115	116	112	113	114										
55	98.7	103	103	101	102	98.3	99.4	101										
60	83.5	88.4	87.5	85.9	87.6	83.5	84.7	85.9										
65	67.4	72.5	71.5	70.1	72.2	68.0	69.0	70.1										
70	50.8	55.7	54.8	53.5	56.0	51.9	52.7	53.7										
75	34.0	38.7	37.8	36.7	39.7	35.6	36.4	37.2										
80	18.6	22.5	21.5	20.9	23.9	20.5	20.7	21.5										
85	6.81	9.43	7.91	8.24	10.7	8.25	7.83	8.50										
90	1.62	2.08	0.75	1.60	2.55	1.65	0.29	1.73										
95	0.61	0.59	0.57	0.55	0.34	0.30	0.23	0.34										
100	0.55	0.62	0.57	0.61	0.39	0.39	0.41	0.40										
105	0.76	0.78	0.71	0.75	0.59	0.54	0.62	0.59										
110	1.01	0.98	0.93	0.94	0.80	0.73	0.84	0.73										
115	1.22	1.20	1.18	1.12	1.00	0.93	1.03	0.93										
120	1.41	1.42	1.38	1.30	1.20	1.14	1.20	1.13										
125	1.61	1.60	1.57	1.48	1.40	1.35	1.36	1.26										
130	1.78	1.76	1.78	1.68	1.57	1.51	1.50	1.38										
135	1.96	1.90	1.89	1.85	1.74	1.70	1.62	1.50										
140	2.12	2.00	2.00	2.03	1.88	1.89	1.71	1.60										
145	2.23	2.08	2.12	2.20	2.00	2.11	1.82	1.68										
150	2.34	2.14	2.20	2.40	2.13	2.32	1.99	1.80										
155	2.46	2.20	2.32	2.56	2.27	2.45	2.22	1.88										
160	2.58	2.30	2.53	2.71	2.44	2.63	2.45	2.04										
165	2.74	2.43	2.72	2.84	2.56	2.77	2.65	2.32										
170	2.77	2.65	2.87	2.95	2.56	2.85	2.85	2.56										
175	2.71	2.91	3.06	3.07	2.59	2.99	3.05	2.85										
180	2.77	3.11	3.20	3.15	2.77	3.11	3.20	3.13										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-27

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: