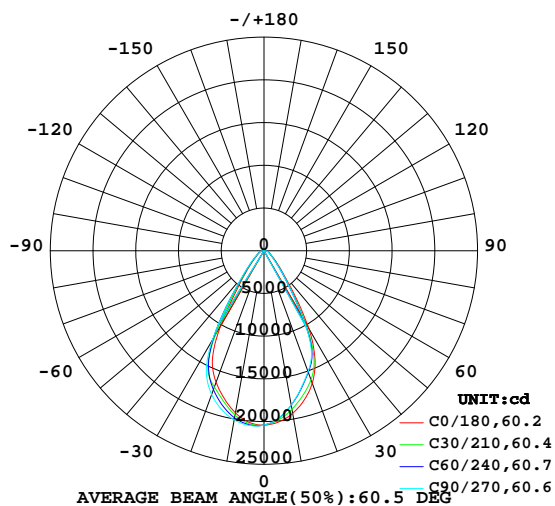


## LUMINAIRE PHOTOMETRIC TEST REPORT

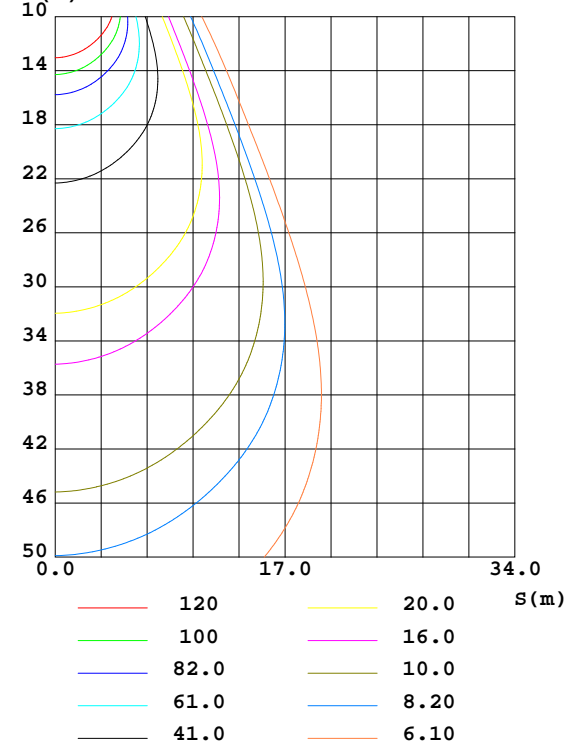
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 135.00 lm/W
MODEL	UFO160M 60 3030	Imax(cd)	20540	S/MH(C0/180)	0.88	
NOMINAL POWER(W)	160	LOR(%)	100.0	S/MH(C90/270)	0.93	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	21600	$\eta$ UP,DN(C0-180)	0.0,46.8	
NOMINAL FLUX(lm)	21600	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,53.2	
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	220.1	$\eta$ down(%)	100.0	CIBSE SHR MAX	0.90	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2017.11.8

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.480m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1933	1858	1834	1884	1927	1970	2010	1992	0- 10	1893	1893	8.76,8.76
20	1653	1569	1507	1536	1640	1716	1791	1755	10- 20	5041	6933	32.1,32.1
30	1045	938.1	924.0	889.1	1015	1178	1211	1334	20- 30	6481	13414	62.1,62.1
40	354.1	318.7	316.2	311.3	337.5	373.4	396.1	408.0	30- 40	3952	17366	80.4,80.4
50	161.5	148.4	145.0	143.6	151.5	162.7	171.8	171.8	40- 50	1811	19177	88.8,88.8
60	91.21	88.63	86.20	85.58	86.68	91.29	93.15	94.37	50- 60	1052	20230	93.7,93.7
70	61.44	61.21	60.09	59.21	58.65	60.06	61.51	63.37	60- 70	724.4	20954	97,97
80	31.84	32.06	31.71	30.94	29.13	29.23	30.06	31.97	70- 80	500.1	21454	99.3,99.3
90	0.2610	0.2650	0.2702	0.2729	0.3104	0.3054	0.3008	0.2979	80- 90	142.0	21596	100,100
100	0.4074	0.4200	0.4326	0.4384	0.4961	0.4805	0.4715	0.4649	90-100	3.935	21600	100,100
110	0	0	0	0	0	0	0	0	100-110	0.2432	21600	100,100
120	0	0	0	0	0	0	0	0	110-120	0	21600	100,100
130	0	0	0	0	0	0	0	0	120-130	0	21600	100,100
140	0	0	0	0	0	0	0	0	130-140	0	21600	100,100
150	0	0	0	0	0	0	0	0	140-150	0	21600	100,100
160	0	0	0	0	0	0	0	0	150-160	0	21600	100,100
170	0	0	0	0	0	0	0	0	160-170	0	21600	100,100
180	0	0	0	0	0	0	0	0	170-180	0	21600	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 18414 lm

%lum = 85.2%

%lamp = 85.3%

Conical surface Flux(120deg): 20230 lm

%lum = 93.7%

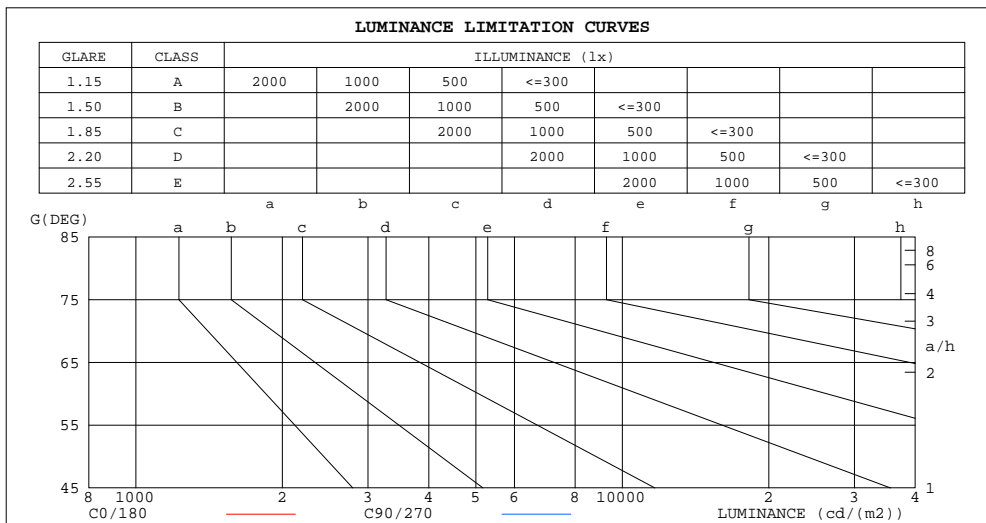
%lamp = 93.7%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2017.11.8

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.480m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	50509	48380
80	54575	54348
75	57055	56495
70	53464	52288
65	51604	49532
60	54293	51311
55	61179	56465
50	74796	67151
45	98073	87448

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017.11.8

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

## WEC AND CCEC

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

pcc	80%	70%	50%	30%	10%	0
pw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
pfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.214 .122 .039	.207 .118 .038	.194 .112 .036	.183 .105 .034	.172 .100 .032	
2.0	.203 .111 .034	.197 .108 .033	.186 .103 .032	.176 .099 .031	.167 .094 .030	
3.0	.191 .101 .030	.186 .099 .030	.176 .095 .029	.167 .092 .028	.159 .088 .027	
4.0	.179 .093 .027	.175 .091 .027	.167 .088 .026	.159 .085 .026	.152 .083 .025	
5.0	.169 .086 .025	.165 .085 .025	.158 .082 .024	.151 .080 .024	.145 .077 .023	
6.0	.159 .080 .023	.156 .079 .023	.150 .077 .022	.144 .075 .022	.138 .073 .022	
7.0	.151 .075 .021	.148 .074 .021	.142 .072 .021	.137 .070 .020	.132 .069 .020	
8.0	.143 .070 .020	.141 .069 .020	.136 .068 .019	.131 .066 .019	.126 .065 .019	
9.0	.136 .066 .018	.134 .065 .018	.129 .064 .018	.125 .063 .018	.121 .062 .018	
10.0	.130 .062 .017	.128 .062 .017	.124 .061 .017	.120 .060 .017	.116 .058 .017	

pcc	80%	70%	50%	30%	10%	0
pw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
pfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)					
0.0	.191 .191 .191	.163 .163 .163	.111 .111 .111	.064 .064 .064	.020 .020 .020	
1.0	.174 .157 .142	.149 .135 .122	.102 .093 .085	.059 .054 .049	.019 .017 .016	
2.0	.161 .132 .109	.137 .114 .094	.094 .079 .066	.054 .046 .039	.017 .015 .013	
3.0	.149 .114 .086	.128 .098 .074	.088 .068 .052	.051 .040 .031	.016 .013 .010	
4.0	.140 .100 .069	.120 .086 .060	.082 .060 .042	.048 .035 .025	.015 .011 .008	
5.0	.131 .088 .056	.113 .076 .049	.078 .053 .035	.045 .031 .021	.015 .010 .007	
6.0	.124 .079 .047	.107 .069 .041	.074 .048 .029	.043 .028 .017	.014 .009 .006	
7.0	.117 .072 .040	.101 .062 .035	.070 .044 .025	.041 .026 .015	.013 .008 .005	
8.0	.112 .066 .034	.096 .057 .030	.066 .040 .021	.039 .024 .013	.013 .008 .004	
9.0	.106 .061 .030	.092 .053 .026	.063 .037 .018	.037 .022 .011	.012 .007 .004	
10.0	.101 .056 .026	.087 .049 .023	.061 .034 .016	.035 .020 .010	.011 .007 .003	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017.11.8

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

NAME:					TYPE:		WEIGHT:				
SPEC.:					DIM.:		SERIAL No.:				
MFR.:					SUR.:21cm*16cm		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		14.0	15.0	14.2	15.2	15.4	13.5	14.6	13.8	14.8	15.0
	3H	14.9	15.9	15.1	16.1	16.3	14.5	15.5	14.8	15.7	16.0
	4H	15.5	16.4	15.8	16.7	16.9	15.2	16.1	15.5	16.3	16.6
	6H	15.9	16.8	16.3	17.1	17.3	15.7	16.6	16.0	16.8	17.1
	8H	16.1	17.0	16.4	17.3	17.5	15.9	16.7	16.2	17.0	17.3
	12H	16.3	17.1	16.6	17.4	17.7	16.0	16.8	16.3	17.1	17.4
4H	2H	14.2	15.2	14.5	15.4	15.6	13.8	14.8	14.1	15.0	15.3
	3H	15.4	16.3	15.8	16.5	16.8	15.1	16.0	15.5	16.3	16.5
	4H	16.2	17.0	16.6	17.3	17.6	16.0	16.7	16.3	17.0	17.3
	6H	16.8	17.5	17.2	17.8	18.2	16.6	17.3	17.0	17.6	18.0
	8H	17.1	17.7	17.5	18.1	18.4	16.9	17.5	17.3	17.9	18.2
	12H	17.3	17.8	17.7	18.2	18.6	17.1	17.6	17.5	18.0	18.4
8H	4H	16.5	17.1	16.9	17.4	17.8	16.3	16.9	16.7	17.2	17.6
	6H	17.3	17.8	17.7	18.2	18.6	17.1	17.6	17.5	18.0	18.4
	8H	17.6	18.1	18.1	18.5	18.9	17.5	17.9	17.9	18.3	18.8
	12H	17.9	18.3	18.4	18.7	19.2	17.7	18.1	18.2	18.5	19.0
12H	4H	16.5	17.1	16.9	17.4	17.8	16.3	16.9	16.7	17.2	17.6
	6H	17.3	17.8	17.8	18.2	18.7	17.2	17.6	17.6	18.0	18.5
	8H	17.7	18.1	18.2	18.6	19.0	17.6	18.0	18.1	18.4	18.9
Variations with the observer position at spacings:											
S = 1.0H		+ 0.5 / - 0.5					+ 0.4 / - 0.5				
1.5H		+ 1.0 / - 0.3					+ 0.7 / - 0.4				
2.0H		+ 0.7 / - 0.4					+ 0.6 / - 0.4				

CIE Pub.117, 21600 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.7)

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017.11.8

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

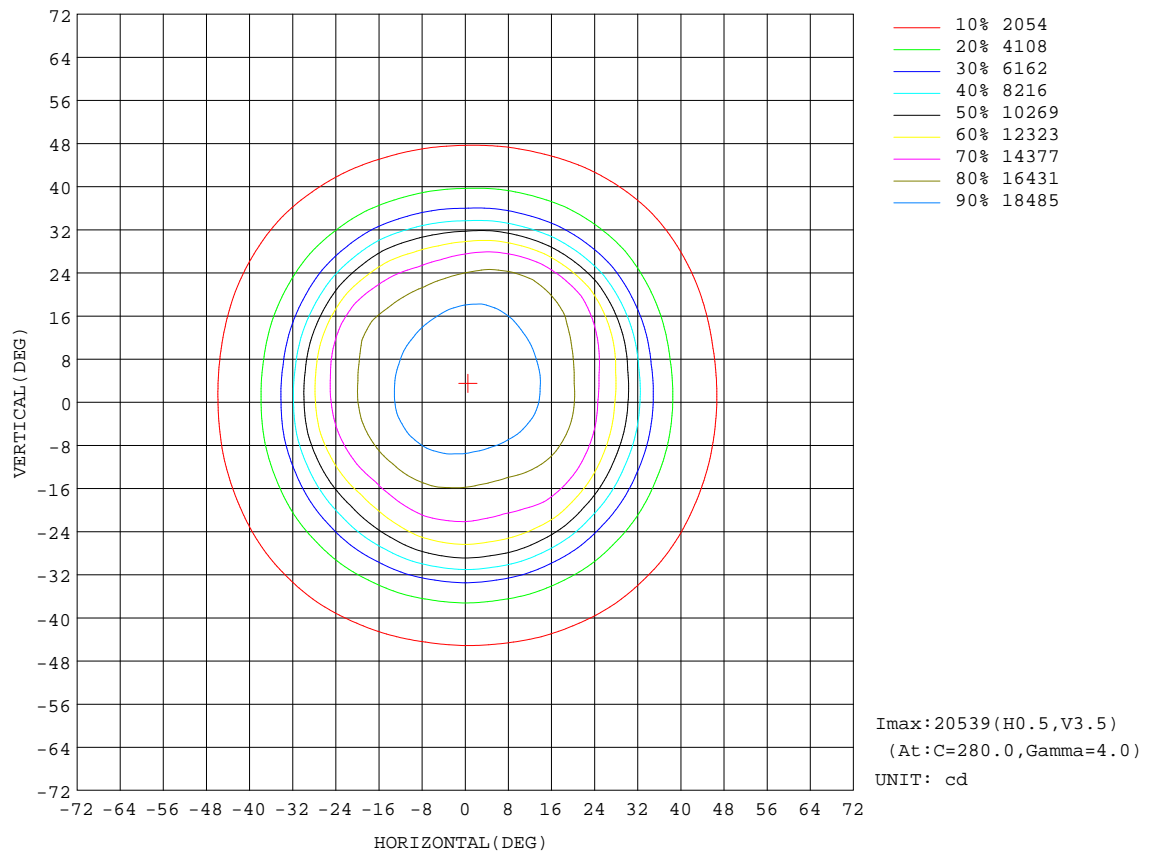
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	79	72	67	79	72	67	78	71	67	63
0.80	88	80	76	87	80	75	85	79	75	70
1.00	93	86	81	92	86	81	90	86	81	76
1.25	98	91	87	97	91	86	95	89	86	81
1.50	101	95	91	100	94	90	97	93	89	84
2.00	105	100	96	103	99	95	100	96	93	87
2.50	107	102	99	105	101	98	102	99	96	89
3.00	109	105	101	107	103	100	104	101	98	91
4.00	112	108	105	110	106	104	106	103	101	94
5.00	113	110	108	111	108	106	107	105	103	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017.11.8

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



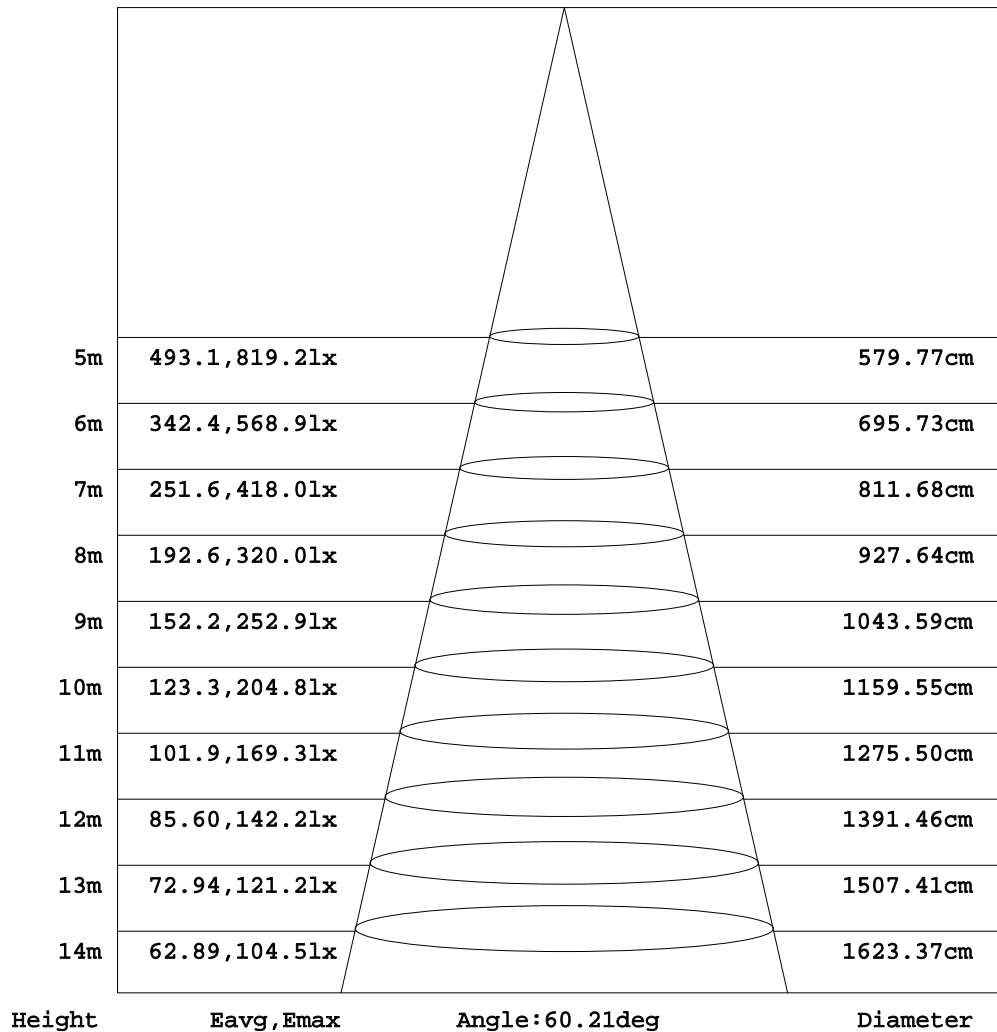
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017.11.8

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

### AAI Figure

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

Flux out:13981 lm

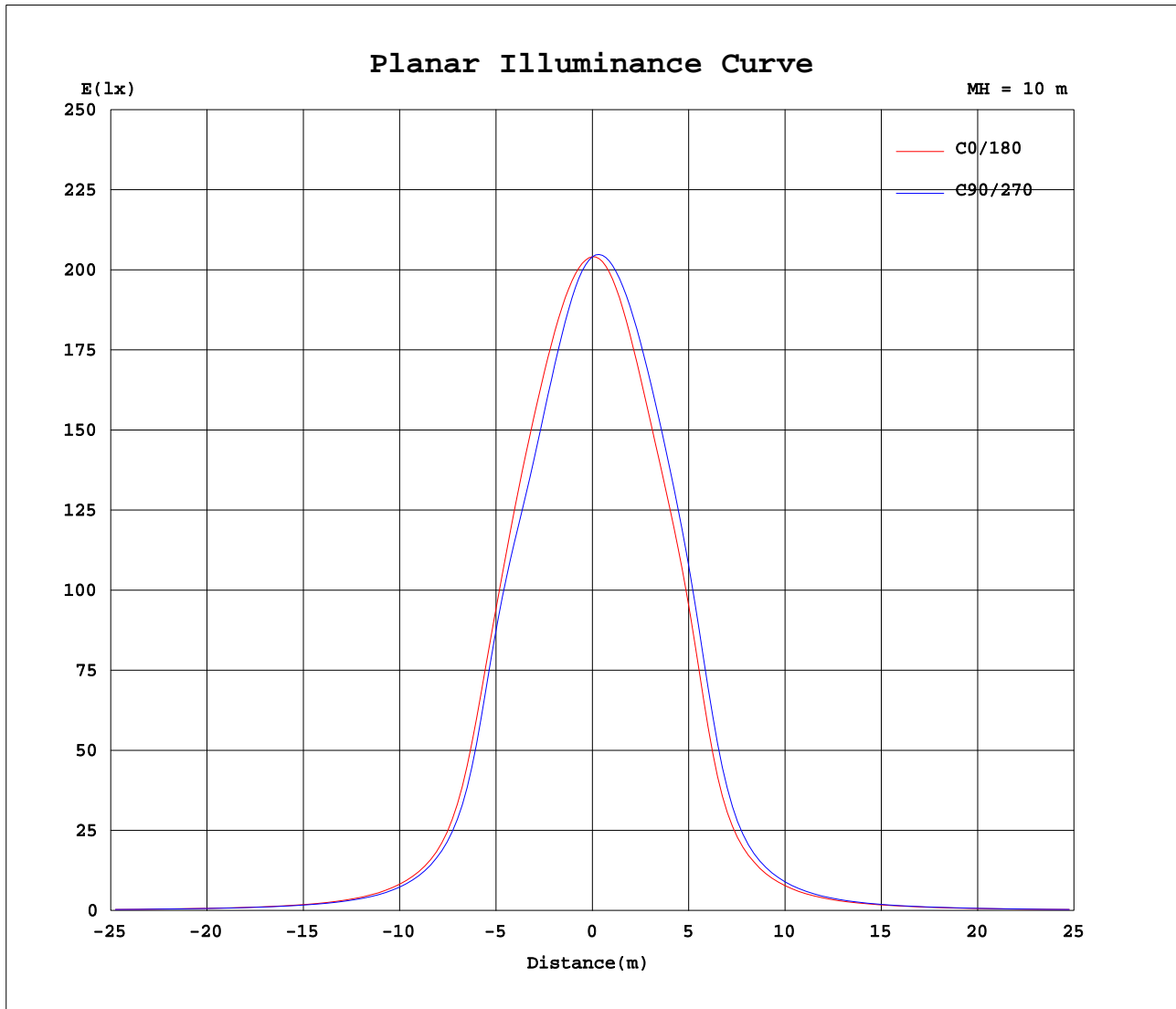


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2017.11.8

γ Range: 0 - 100DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.480m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2017.11.8

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.480m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

Table--1

UNIT: ×10cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2042	2042	2041
5	2011	2003	1994	1987	1979	1974	1968	1967	1965	1968	1970	1976	1980	1987	1992	2000	2005	2012	2016
10	1933	1918	1900	1884	1865	1851	1836	1831	1827	1834	1840	1853	1864	1879	1889	1902	1910	1921	1927
15	1812	1797	1775	1754	1727	1703	1676	1665	1661	1670	1680	1697	1709	1725	1738	1756	1770	1787	1794
20	1653	1642	1625	1608	1583	1555	1515	1494	1497	1507	1513	1526	1528	1531	1541	1573	1599	1624	1640
25	1414	1407	1396	1385	1369	1361	1332	1317	1309	1317	1315	1311	1286	1269	1273	1319	1361	1403	1431
30	1045	1016	977	958	936	940	929	930	917	924	911	908	888	889	890	920	953	1000	1015
35	605	586	559	545	528	526	519	521	515	519	515	519	513	519	518	530	538	555	558
40	354	348	332	328	319	319	317	318	316	316	313	312	309	311	312	317	322	334	337
45	233	227	219	214	210	210	209	210	208	208	205	205	203	204	204	207	210	217	220
50	162	158	153	151	149	148	147	147	146	145	144	143	143	143	144	145	147	150	151
55	118	116	114	113	112	111	111	110	109	109	108	108	108	108	108	109	109	111	112
60	91.2	90.6	89.7	89.5	88.8	88.4	87.4	87.1	86.4	86.2	85.6	85.7	85.5	85.6	85.5	85.9	86.0	86.7	86.7
65	73.3	72.9	72.7	72.9	72.5	72.0	71.2	70.9	70.4	70.3	70.1	70.6	70.4	70.3	70.1	70.1	69.9	70.2	69.7
70	61.4	60.9	61.1	61.3	61.5	60.9	60.6	60.4	59.9	60.1	59.6	59.8	59.7	59.2	59.2	59.0	58.8	58.8	58.7
75	49.6	50.0	49.2	49.6	50.4	49.8	49.2	49.7	48.8	49.1	48.3	47.9	48.1	48.2	49.0	47.5	47.0	47.3	46.9
80	31.8	31.7	31.5	32.0	32.2	31.9	31.1	31.3	31.1	31.7	30.6	32.1	31.4	30.6	31.3	29.7	29.0	29.2	29.1
85	14.8	14.5	14.5	14.6	13.9	13.7	13.2	13.4	13.4	14.2	12.4	13.9	12.7	12.3	11.8	10.9	9.87	10.6	9.99
90	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.31
95	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.35	0.34	0.34	0.34	0.34	0.39
100	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.50
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:DAMIN

Test Date:2017.11.8

γ Range: 0 - 100DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362

Humidity:65.0%

Test Distance:10.480m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2041	2042	2042		
5	2021	2026	2030	2036	2039	2044	2047	2050	2051	2052	2051	2049	2045	2040	2034	2027	2018		
10	1934	1945	1954	1966	1974	1985	1994	2004	2010	2014	2011	2007	1997	1987	1974	1961	1946		
15	1801	1814	1827	1845	1857	1875	1891	1911	1922	1930	1924	1913	1894	1877	1857	1842	1824		
20	1651	1673	1699	1715	1718	1731	1746	1771	1791	1808	1806	1790	1765	1744	1717	1690	1663		
25	1461	1507	1553	1566	1547	1537	1528	1552	1595	1642	1666	1670	1651	1627	1571	1510	1449		
30	1048	1105	1142	1179	1178	1191	1172	1178	1211	1273	1308	1341	1339	1330	1258	1181	1091		
35	572	603	625	657	672	697	692	695	696	720	729	747	745	745	707	670	624		
40	342	354	360	371	375	385	387	393	396	407	409	414	410	406	391	378	360		
45	224	230	233	237	239	244	246	252	254	259	259	260	257	256	249	244	236		
50	154	158	159	162	163	166	168	171	172	173	173	173	172	171	168	166	163		
55	113	115	116	118	119	121	122	123	123	123	123	124	124	123	121	120	118		
60	87.2	88.3	89.2	91.1	91.5	92.4	92.7	93.4	93.1	93.6	93.5	94.3	94.3	94.4	93.3	92.4	91.2		
65	69.7	70.4	71.1	72.4	72.6	73.0	73.4	73.8	73.6	74.0	74.6	75.3	75.4	75.7	74.9	74.2	73.1		
70	58.8	59.0	59.2	60.1	60.0	60.6	61.1	61.5	61.5	61.6	62.2	62.8	63.0	63.7	62.5	62.0	61.5		
75	46.9	47.3	46.5	47.6	46.7	48.1	48.7	48.6	48.1	48.6	49.4	49.8	49.6	50.5	49.5	48.7	48.4		
80	28.8	28.7	28.5	29.4	29.1	29.8	30.0	30.4	30.1	30.4	30.6	31.6	31.5	32.4	31.5	31.6	31.1		
85	9.36	10.4	9.63	9.70	9.42	10.9	10.3	10.8	11.3	11.9	12.7	13.8	13.8	14.4	13.9	14.9	13.6		
90	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
95	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37		
100	0.49	0.49	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.47	0.47	0.46	0.47	0.46	0.47	0.47		
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

C Range: 0 - 360DEG

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