

Luminaire Photograph



Light Output Ratio:	50.9%	
Luminaire Power:	10.37 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: GUO
Test Date: 2019-10-14

g Range: 0 - 90DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CLU028-1202C4-303H5M3-F1 Ra: 90
LENS: PM-1035A 20R+CLEAR GLASS
DRIVER: LP12W-48-C0250 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

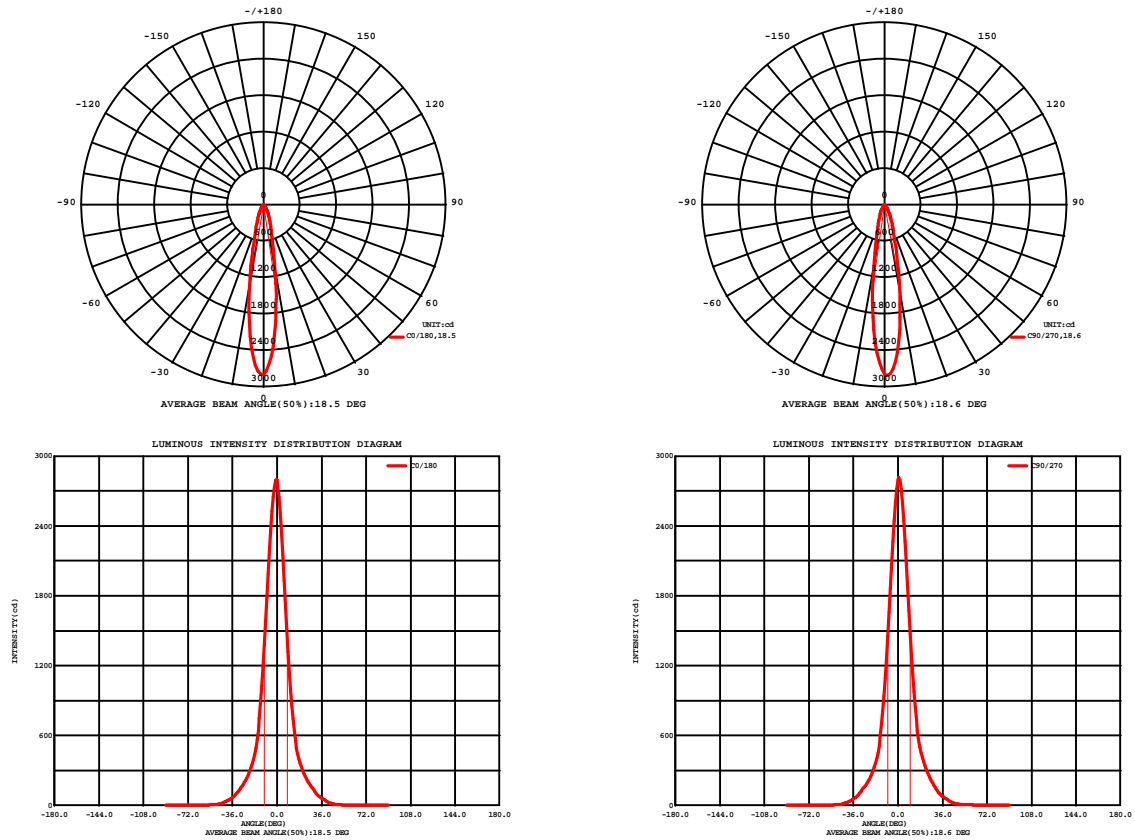


Fig. C0/C180

Fig. C90/C270

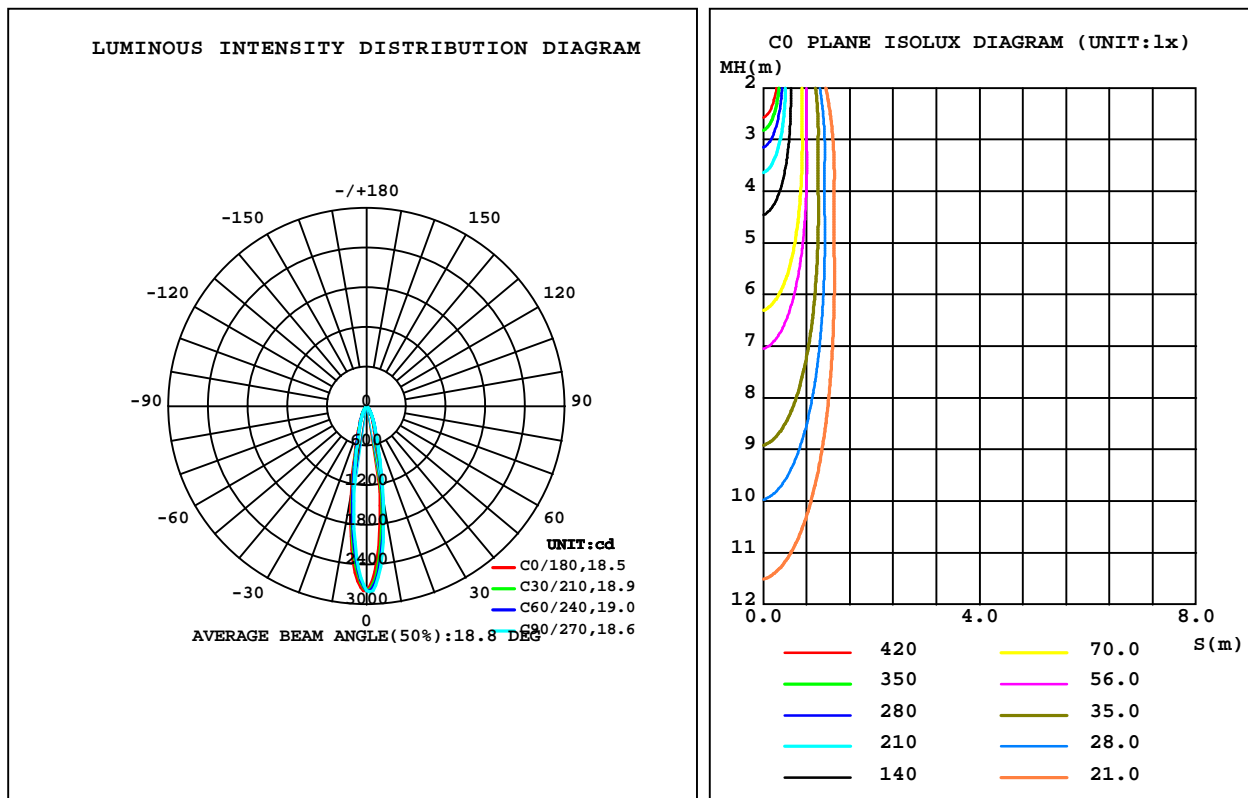
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.17V I:0.0490A P:10.372W PF:0.9587 Freq:49.99Hz Lamp Flux:1055.1x1 lm		
NAME: 1618.116	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:191014002
MFR.: RISE	SUR.:0.00151976m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 51.74 lm/W			
MODEL	CITIZEN	I _{max} (cd)	2823	S/MH(C0/180)	0.34
NOMINAL POWER(W)	10	LOR(%)	50.9	S/MH(C90/270)	0.28
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	536.63	h UP,DN(C0-180)	0.0,27.5
NOMINAL FLUX(lm)	1055.1	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,23.3
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	h down(%)	50.9	CIBSE SHR MAX	1.00



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ZONAL FLUX DIAGRAM

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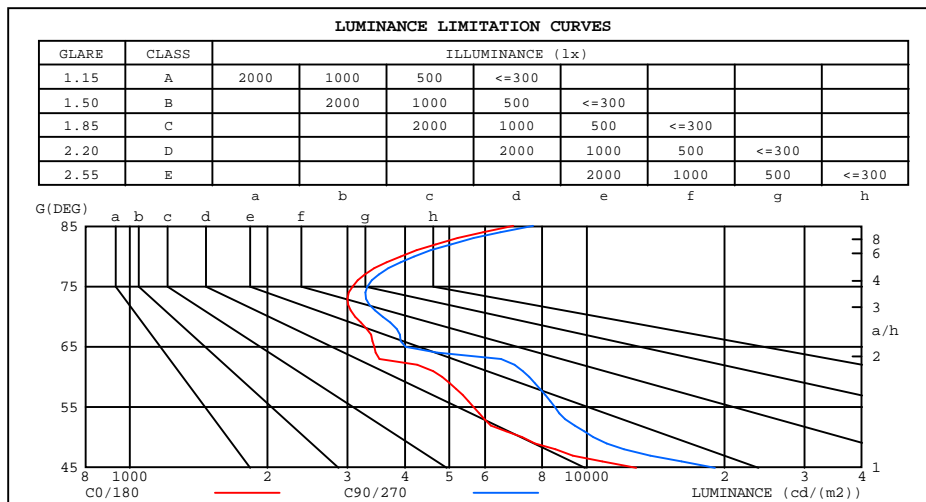
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1146	1366	1474	1454	1377	1244	1090	1030	0- 10	182.3	182.3	34,17.3
20	330.8	381.4	412.1	393.5	356.2	324.0	299.4	293.8	10- 20	179.7	362.0	67.5,34.3
30	130.2	148.8	158.7	150.6	137.9	127.5	120.1	118.7	20- 30	101.5	463.5	86.4,43.9
40	36.74	44.28	49.85	48.38	41.84	36.03	32.54	32.03	30- 40	49.14	512.6	95.5,48.6
50	7.076	8.662	10.11	9.099	7.443	6.582	6.276	6.388	40- 50	13.94	526.5	98.1,49.9
60	3.678	4.674	5.701	4.919	4.259	3.699	3.438	3.561	50- 60	5.049	531.6	99.1,50.4
70	1.625	1.762	1.861	1.938	1.869	1.784	1.705	1.593	60- 70	2.689	534.3	99.6,50.6
80	1.036	1.072	1.107	1.127	1.186	1.190	1.134	1.042	70- 80	1.416	535.7	99.8,50.8
90	0.0161	0.0085	0.0164	0.1319	0.1342	0.0459	0.0126	0.0067	80- 90	0.9367	536.6	100,50.9
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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DRIVER:LP12W-48-C0250 250mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.17V I:0.0490A P:10.372W PF:0.9587 Freq:49.99Hz Lamp Flux:1055.1x1 lm		
NAME: 1618.116	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:191014002
MFR.: RISE	SUR.:0.00151976m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	6898	7630
80	3912	4193
75	3071	3309
70	3115	3580
65	3434	4021
60	4824	7500
55	5666	8531
50	7219	10346
45	12830	19064

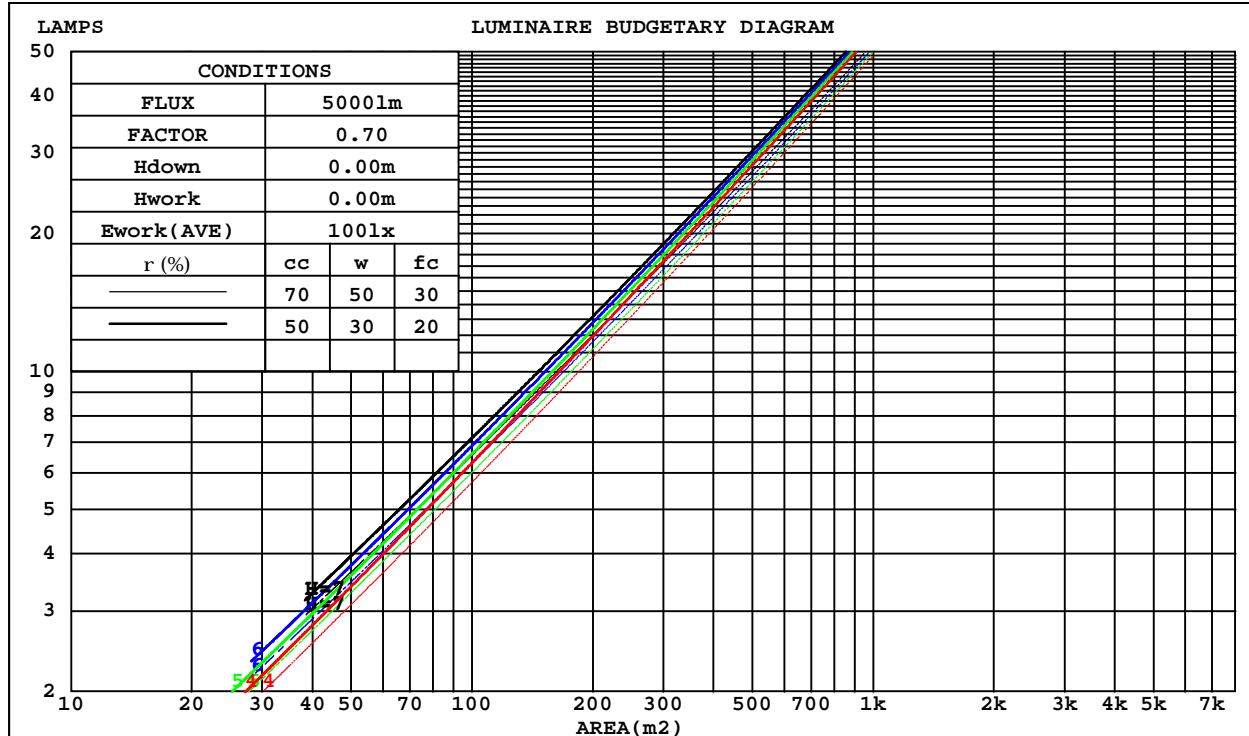
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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rcc	80%			70%			50%			30%			10%			0
rw	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	.61	.61	.61	.59	.59	.59	.57	.57	.57	.54	.54	.54	.52	.52	.52	.51
1.0	.57	.56	.55	.56	.55	.54	.54	.53	.53	.52	.51	.51	.50	.50	.49	.49
2.0	.54	.52	.51	.53	.52	.50	.52	.50	.49	.50	.49	.48	.49	.48	.47	.46
3.0	.51	.49	.48	.51	.49	.47	.49	.48	.47	.48	.47	.46	.47	.46	.45	.45
4.0	.49	.47	.45	.48	.46	.45	.47	.46	.44	.47	.45	.44	.46	.44	.43	.43
5.0	.47	.45	.43	.47	.44	.43	.46	.44	.42	.45	.43	.42	.44	.43	.42	.41
6.0	.45	.43	.41	.45	.43	.41	.44	.42	.41	.43	.42	.40	.43	.41	.40	.40
7.0	.43	.41	.39	.43	.41	.39	.43	.41	.39	.42	.40	.39	.41	.40	.39	.38
8.0	.42	.40	.38	.42	.39	.38	.41	.39	.38	.41	.39	.38	.40	.39	.37	.37
9.0	.40	.38	.37	.40	.38	.37	.40	.38	.36	.39	.38	.36	.39	.37	.36	.36
10.0	.39	.37	.35	.39	.37	.35	.39	.37	.35	.38	.36	.35	.38	.36	.35	.35



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30minutes warm-up

WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:191014002
MFR.: RISE	SUR.:0.00151976m2	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	.076	.043	.014	.073	.042	.013	.067	.038	.012	.061	.035	.011	.056	.032	.010	
2.0	.071	.039	.012	.069	.038	.012	.063	.035	.011	.058	.033	.010	.054	.031	.010	
3.0	.067	.036	.011	.064	.034	.010	.060	.033	.010	.056	.031	.009	.052	.029	.009	
4.0	.063	.033	.010	.061	.032	.009	.057	.030	.009	.053	.029	.009	.050	.027	.008	
5.0	.059	.030	.009	.057	.029	.009	.054	.028	.008	.051	.027	.008	.048	.026	.008	
6.0	.056	.028	.008	.054	.028	.008	.052	.027	.008	.049	.026	.008	.047	.025	.007	
7.0	.053	.026	.007	.052	.026	.007	.049	.025	.007	.047	.024	.007	.045	.023	.007	
8.0	.051	.025	.007	.049	.024	.007	.047	.024	.007	.045	.023	.007	.043	.022	.006	
9.0	.048	.023	.007	.047	.023	.006	.045	.022	.006	.044	.022	.006	.042	.021	.006	
10.0	.046	.022	.006	.045	.022	.006	.044	.021	.006	.042	.021	.006	.041	.020	.006	

rcc	80%			70%			50%			30%			10%			0
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rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.097	.097	.097	.083	.083	.083	.057	.057	.057	.032	.032	.032	.010	.010	.010	
1.0	.086	.080	.075	.074	.069	.064	.050	.047	.044	.029	.027	.026	.009	.009	.008	
2.0	.077	.067	.059	.066	.058	.051	.045	.040	.036	.026	.023	.021	.008	.008	.007	
3.0	.070	.058	.048	.060	.050	.041	.041	.035	.029	.024	.020	.017	.008	.007	.006	
4.0	.064	.050	.039	.055	.043	.034	.038	.030	.024	.022	.018	.014	.007	.006	.005	
5.0	.059	.044	.033	.051	.038	.028	.035	.026	.020	.020	.016	.012	.007	.005	.004	
6.0	.055	.039	.027	.047	.034	.024	.032	.024	.017	.019	.014	.010	.006	.005	.003	
7.0	.051	.035	.023	.044	.030	.020	.030	.021	.014	.018	.012	.009	.006	.004	.003	
8.0	.048	.031	.020	.041	.027	.018	.028	.019	.012	.016	.011	.007	.005	.004	.002	
9.0	.045	.028	.018	.038	.025	.015	.027	.017	.011	.016	.010	.006	.005	.003	.002	
10.0	.042	.026	.015	.036	.023	.013	.025	.016	.010	.015	.009	.006	.005	.003	.002	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:191014002		
MFR.: RISE					SUR.:0.00151976m2			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	15.3	16.1	15.6	16.2	16.4	16.4	17.1	16.6	17.3	17.5
3H	15.3	16.0	15.6	16.2	16.4	16.4	17.1	16.6	17.3	17.4
4H	15.3	16.0	15.6	16.2	16.4	16.4	17.0	16.6	17.2	17.4
6H	15.3	15.9	15.6	16.2	16.4	16.4	17.0	16.6	17.2	17.4
8H	15.4	15.9	15.7	16.2	16.4	16.4	17.0	16.7	17.2	17.5
12H	15.4	16.0	15.7	16.3	16.5	16.4	17.0	16.8	17.3	17.5
4H 2H	15.2	15.9	15.5	16.1	16.3	16.3	16.9	16.5	17.1	17.3
3H	15.2	15.8	15.6	16.1	16.3	16.3	16.8	16.6	17.1	17.4
4H	15.3	15.8	15.6	16.1	16.4	16.3	16.8	16.6	17.1	17.4
6H	15.3	15.8	15.7	16.1	16.5	16.3	16.8	16.7	17.1	17.4
8H	15.4	15.8	15.8	16.2	16.6	16.4	16.8	16.8	17.1	17.5
12H	15.6	16.0	16.0	16.3	16.7	16.5	16.9	16.9	17.3	17.6
8H 4H	15.2	15.6	15.6	16.0	16.3	16.2	16.6	16.6	16.9	17.3
6H	15.3	15.7	15.8	16.1	16.5	16.3	16.6	16.7	17.0	17.4
8H	15.5	15.8	15.9	16.2	16.7	16.4	16.7	16.8	17.1	17.6
12H	15.8	16.0	16.2	16.5	16.9	16.6	16.9	17.1	17.3	17.8
12H 4H	15.2	15.6	15.6	15.9	16.3	16.1	16.5	16.5	16.9	17.3
6H	15.3	15.7	15.8	16.1	16.5	16.3	16.6	16.7	17.0	17.4
8H	15.5	15.8	16.0	16.2	16.7	16.4	16.7	16.9	17.1	17.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 3.5					+ 2.5 / - 3.7				
1.5H	+ 4.1 / - 3.4					+ 4.6 / - 3.3				
2.0H	+ 1.9 / - 1.0					+ 3.1 / - 1.7				

CIE Pub.117, 1055 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.2$)

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UTILIZATION FACTORS TABLE

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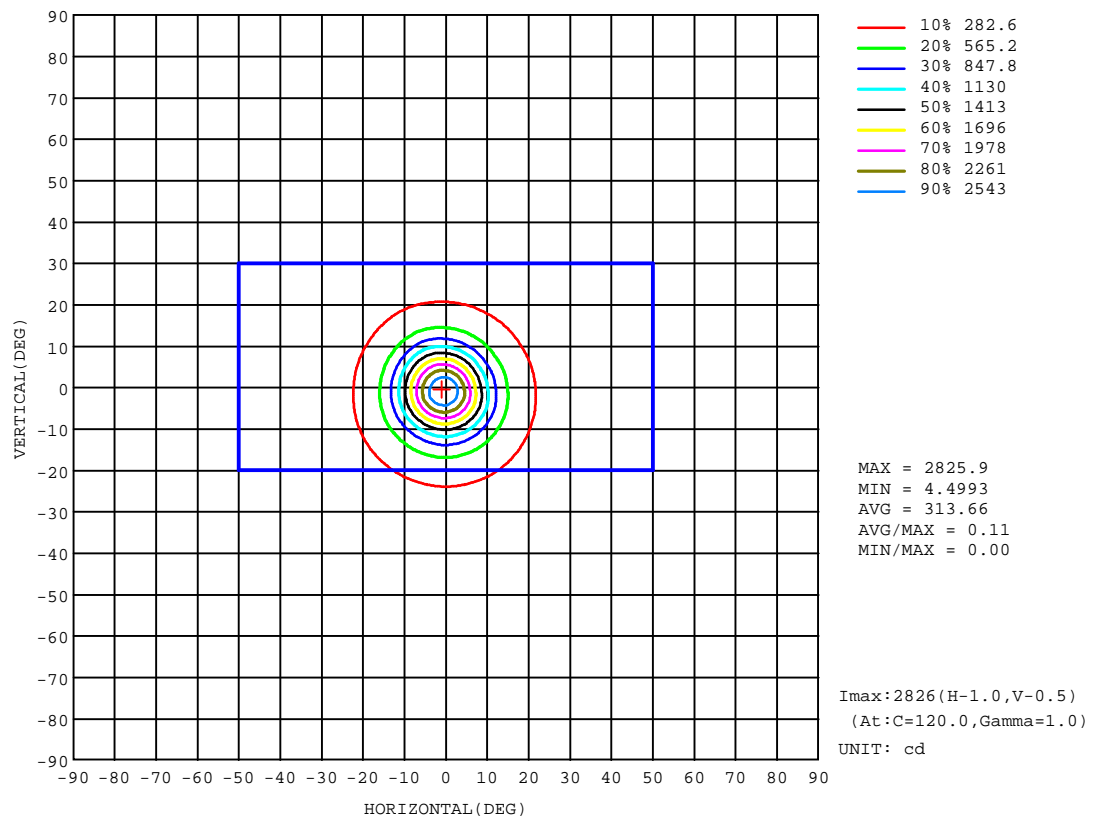
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	42	40	45	42	40	45	42	40	38
0.80	49	46	44	48	46	44	48	46	44	42
1.00	51	48	46	51	48	46	50	48	46	44
1.25	53	50	49	52	50	48	51	49	48	46
1.50	54	52	50	54	51	50	52	51	49	47
2.00	55	53	52	55	53	51	53	52	51	48
2.50	56	54	53	55	54	52	54	53	51	49
3.00	57	55	54	56	55	53	54	53	52	49
4.00	58	57	56	57	56	55	55	54	53	50
5.00	59	58	57	58	57	56	56	55	54	50
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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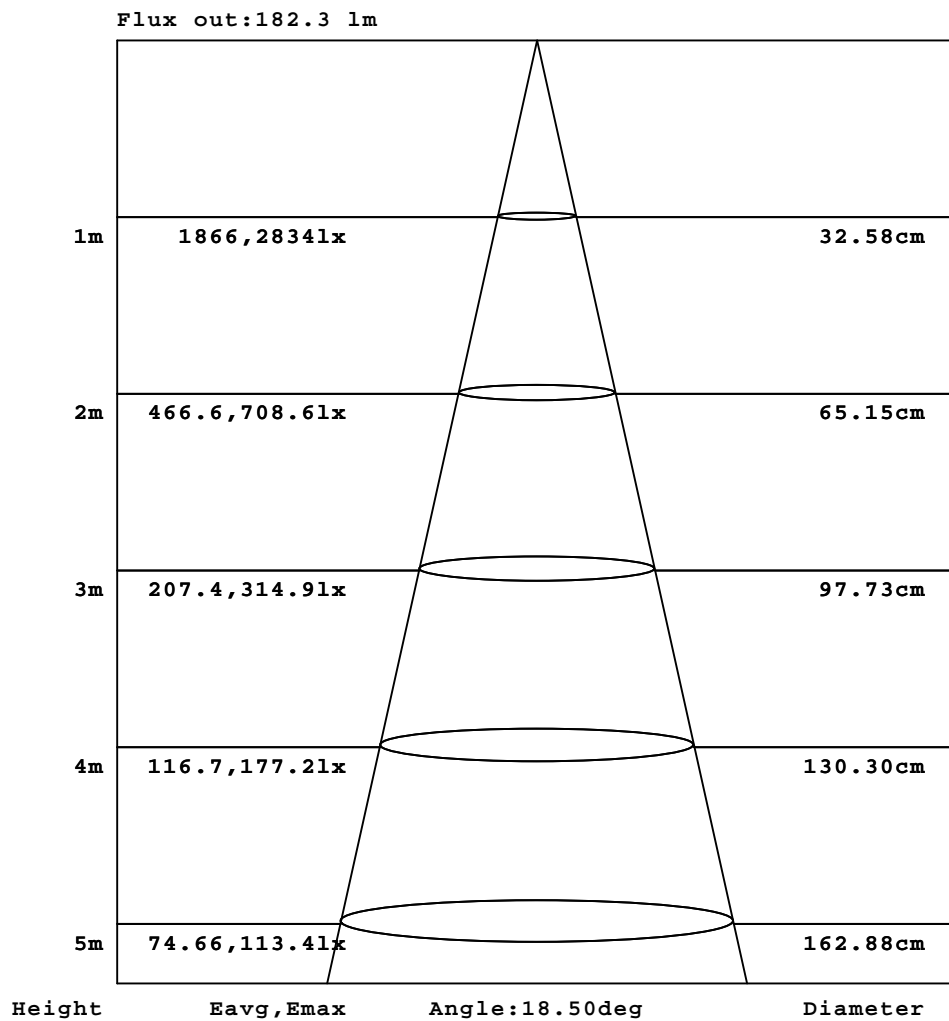


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AAI Figure

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MFR.: RISE	SUR.:0.00151976m2	Shielding Angle:



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

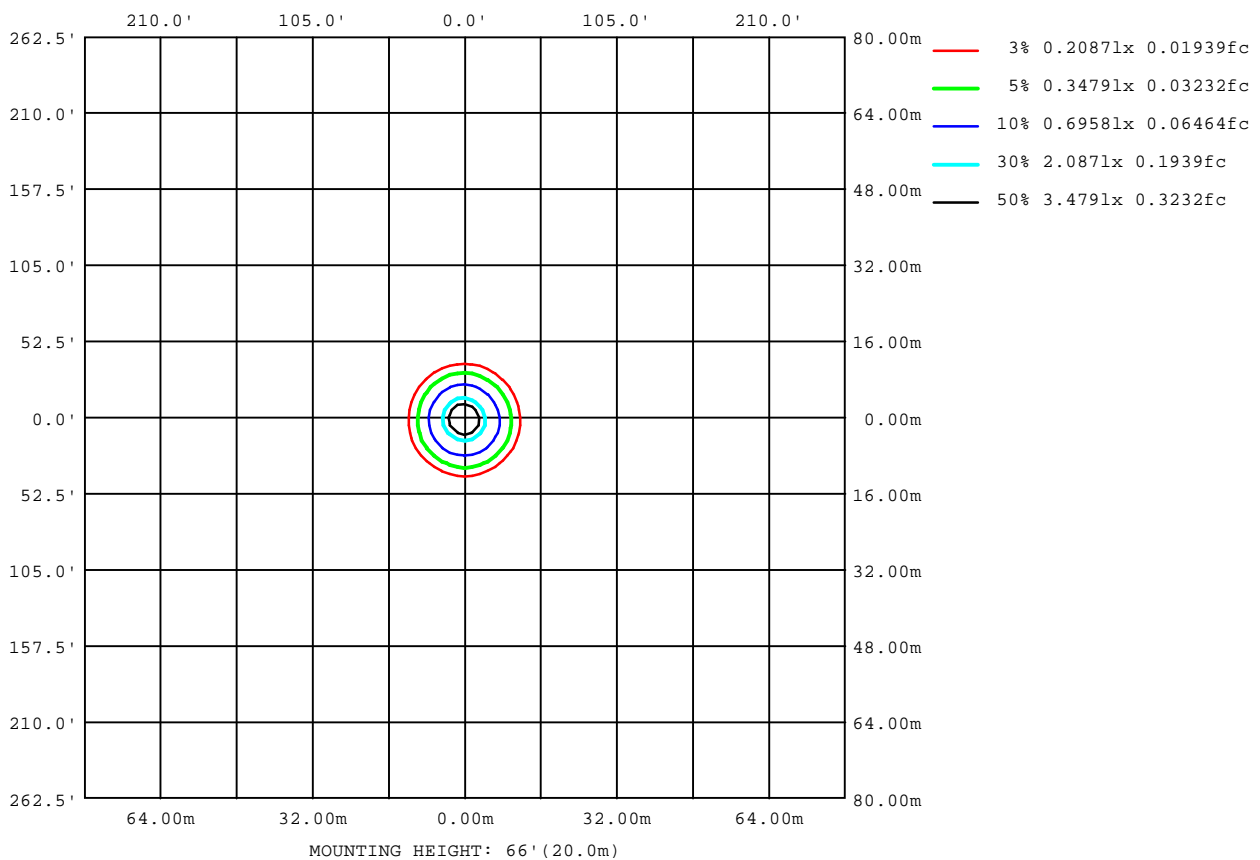
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GUO
Test Date:2019-10-14

g Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
LENS:PM-1035A 20R+CLEAR GLASS
DRIVER:LP12W-48-C0250 250mA
30minutes warm-up



ISOLUX DIAGRAM

Test:U:220.17V I:0.0490A P:10.372W PF:0.9587 Freq:49.99Hz Lamp Flux:1055.1x1 lm		
NAME: 1618.116	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:191014002
MFR.: RISE	SUR.:0.00151976m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GUO
Test Date:2019-10-14

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
LENS:PM-1035A 20R+CLEAR GLASS
DRIVER:LP12W-48-C0250 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.17V I:0.0490A P:10.372W PF:0.9587 Freq:49.99Hz Lamp Flux:1055.1x1 lm		
NAME: 1618.116	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:191014002
MFR.: RISE	SUR.:0.00151976m2	Shielding Angle:

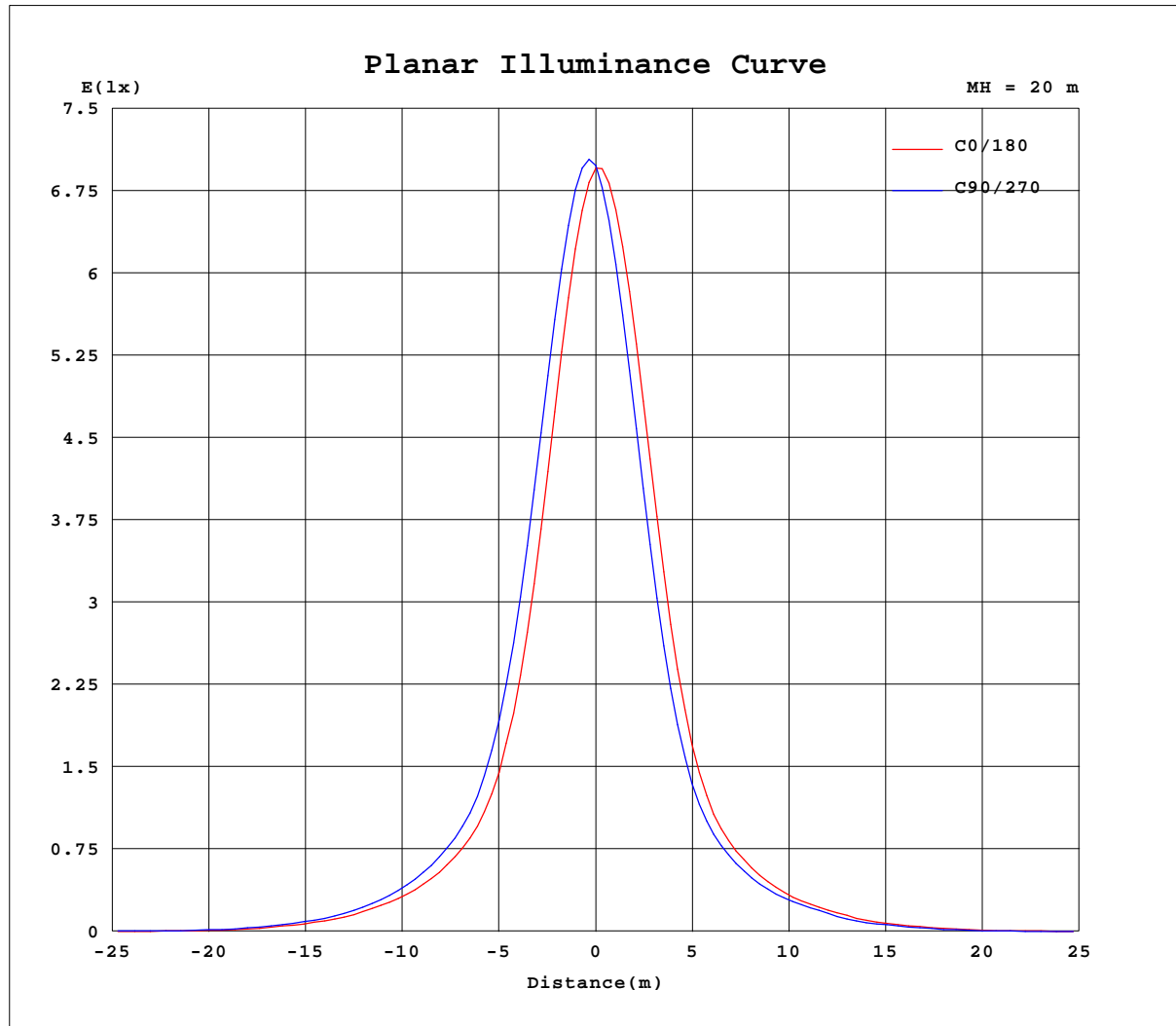
AvgL	cd/m2
L_0~180(65)av	3911
L_0~180(75)av	3279
L_0~180(85)av	7596
L_90~270(65)av	3761
L_90~270(75)av	3297
L_90~270(85)av	7722
L_45(65)av	3729
L_45(75)av	3277
L_45(85)av	7593

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GUO
Test Date:2019-10-14

g Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
LENS:PM-1035A 20R+CLEAR GLASS
DRIVER:LP12W-48-C0250 250mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: GUO
 Test Date: 2019-10-14

deg Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CLU028-1202C4-303H5M3-F1 Ra:90
 LENS: PM-1035A 20R+CLEAR GLASS
 DRIVER: LP12W-48-C0250 250mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.0490A P:10.372W PF:0.9587 Freq:49.99Hz Lamp Flux:1055.1xl lm		
NAME: 1618.116	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:191014002
MFR.: RISE	SUR.:0.00151976m2	Shielding Angle:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: GUO
Test Date: 2019-10-14

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
          LENS:PM-1035A 20R+CLEAR GLASS
          DRIVER:LP12W-48-C0250 250mA
          30minutes warm-up

```