

Luminaire Photograph



Light Output Ratio:	52.2%	
Luminaire Power:	14.8 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: GUO
Test Date: 2019-08-30

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 CRI: 90
LENS: CKO-CS18-0035018-1301 10R
DRIVER: PHILIPS 9290 014 220 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

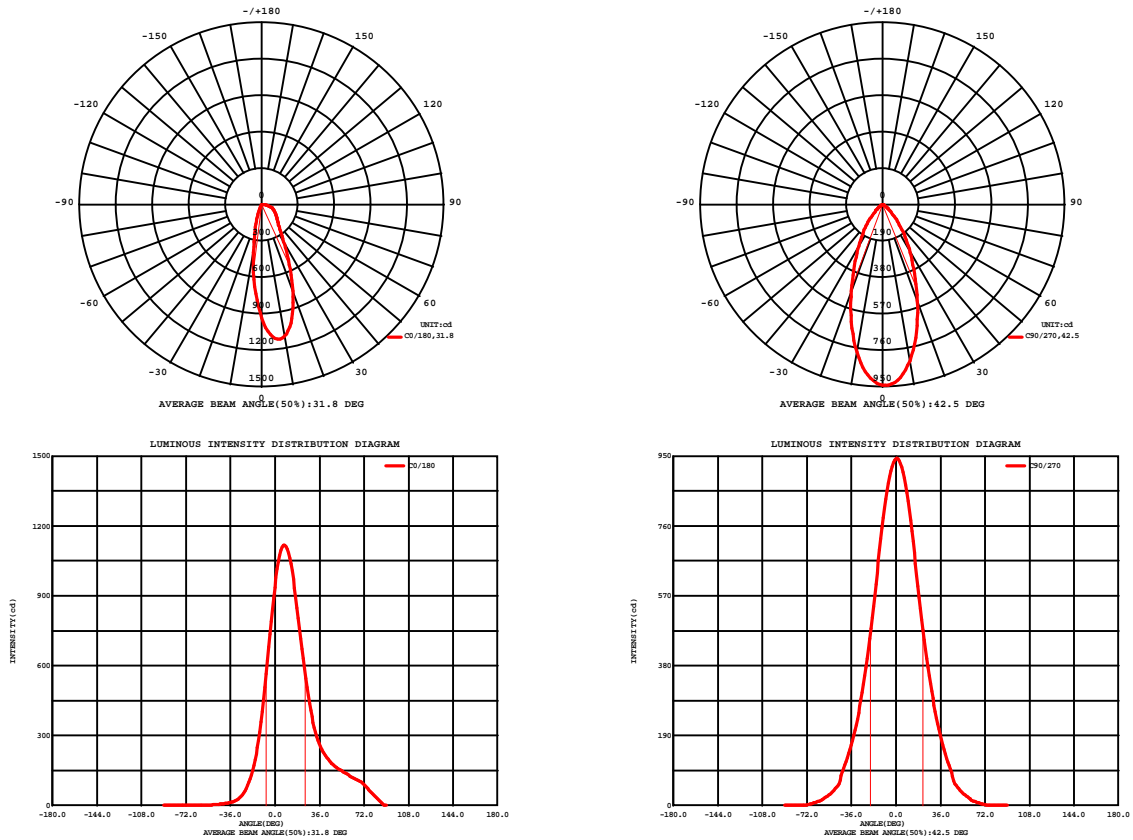


Fig. C0/C180

Fig. C90/C270

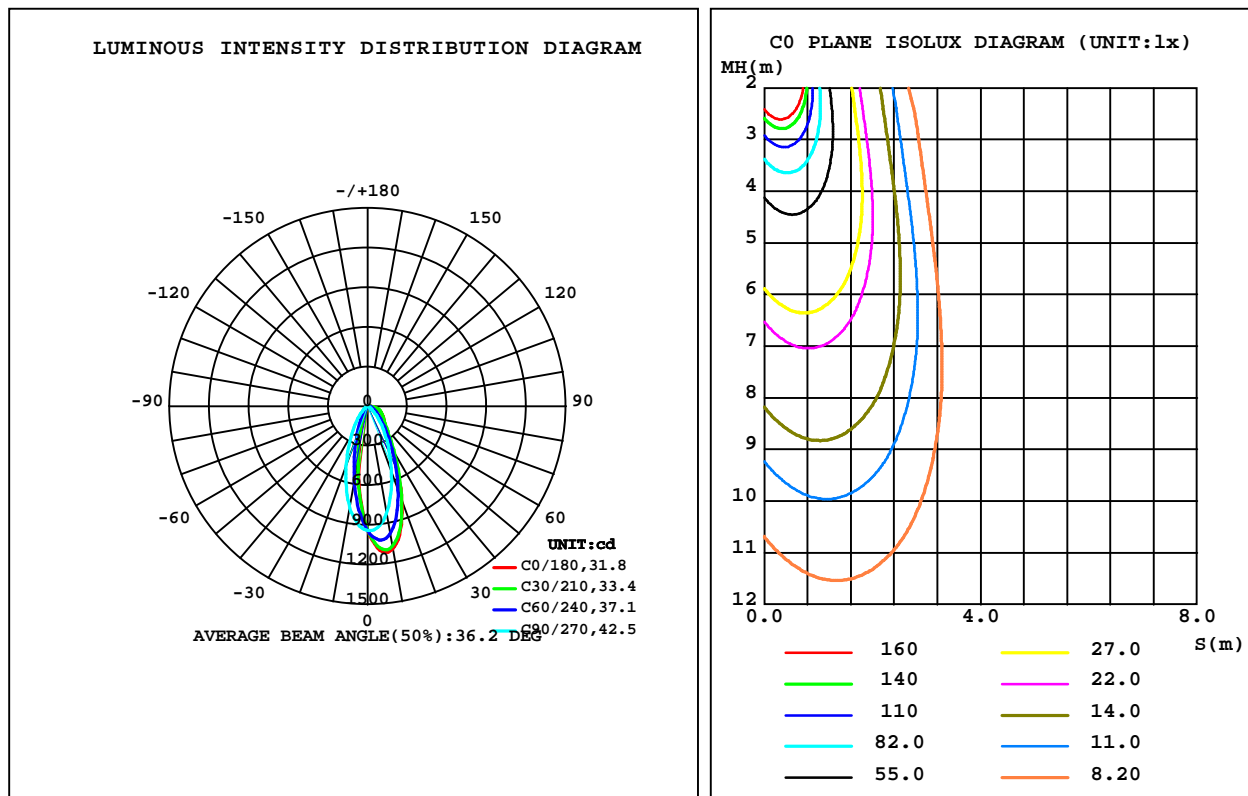
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 Test Speed: HIGH
 Temperature: 25.3DEG
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 30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.19V I:0.0701A P:14.804W PF:0.9562 Freq:49.99Hz Lamp Flux:1328.46x1 lm		
NAME: 1918.124	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:190830004
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 46.88 lm/W			
MODEL	CITIZEN	I _{max} (cd)	1117	S/MH(C0/180)	0.30
NOMINAL POWER(W)	15	LOR(%)	52.2	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	693.99	h UP,DN(C0-180)	0.0,30.3
NOMINAL FLUX(lm)	1328.46	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,21.9
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	52.2	CIBSE SHR MAX	0.65



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ZONAL FLUX DIAGRAM

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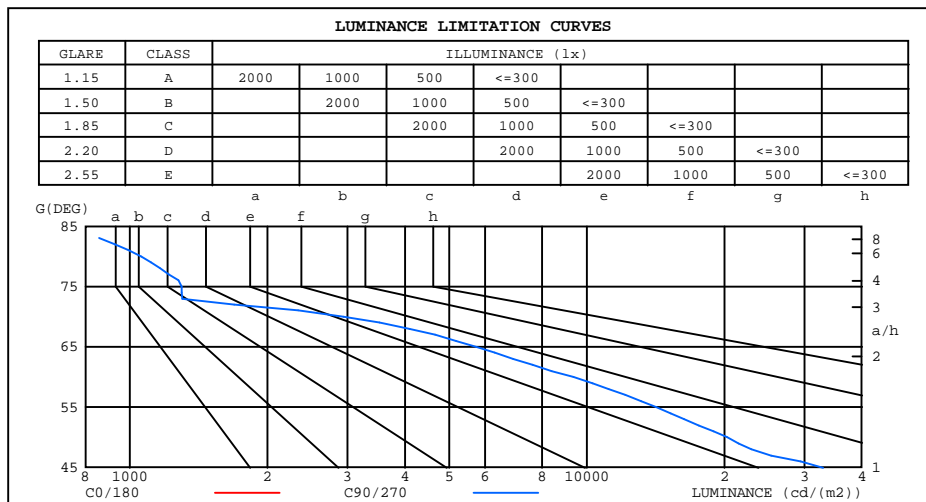
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1100	1031	826.7	542.2	403.5	515.0	781.8	1004	0- 10	81.57	81.57	11.8,6.14
20	759.7	720.4	534.9	215.2	113.2	194.4	481.2	694.0	10- 20	170.4	251.9	36.3,19
30	381.2	390.5	290.7	71.80	25.22	64.24	251.1	376.6	20- 30	151.4	403.4	58.1,30.4
40	220.7	215.5	140.0	21.60	8.308	19.72	119.9	206.2	30- 40	103.2	506.6	73,38.1
50	163.2	135.4	50.01	7.878	2.832	6.863	41.60	127.8	40- 50	68.57	575.2	82.9,43.3
60	128.7	95.98	17.99	1.362	0.0679	1.048	15.14	88.76	50- 60	49.38	624.5	90,47
70	99.67	70.16	3.866	0.0485	0.0412	0.0401	3.061	63.25	60- 70	36.86	661.4	95.3,49.8
80	45.53	35.76	0.7064	0.0568	0.0712	0.0536	0.3652	34.68	70- 80	25.51	686.9	99,51.7
90	0.1023	0.0741	0.0138	0.1359	0.1885	0.1347	0.0101	0.0120	80- 90	7.088	694.0	100,52.2
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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LUMINANCE LIMITATION CURVES

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NAME: 1918.124	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:190830004
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	51131	687
80	68287	1059
75	74049	1298
70	75891	2943
65	69915	5726
60	67041	9369
55	65980	14179
50	66113	20261
45	68598	32888

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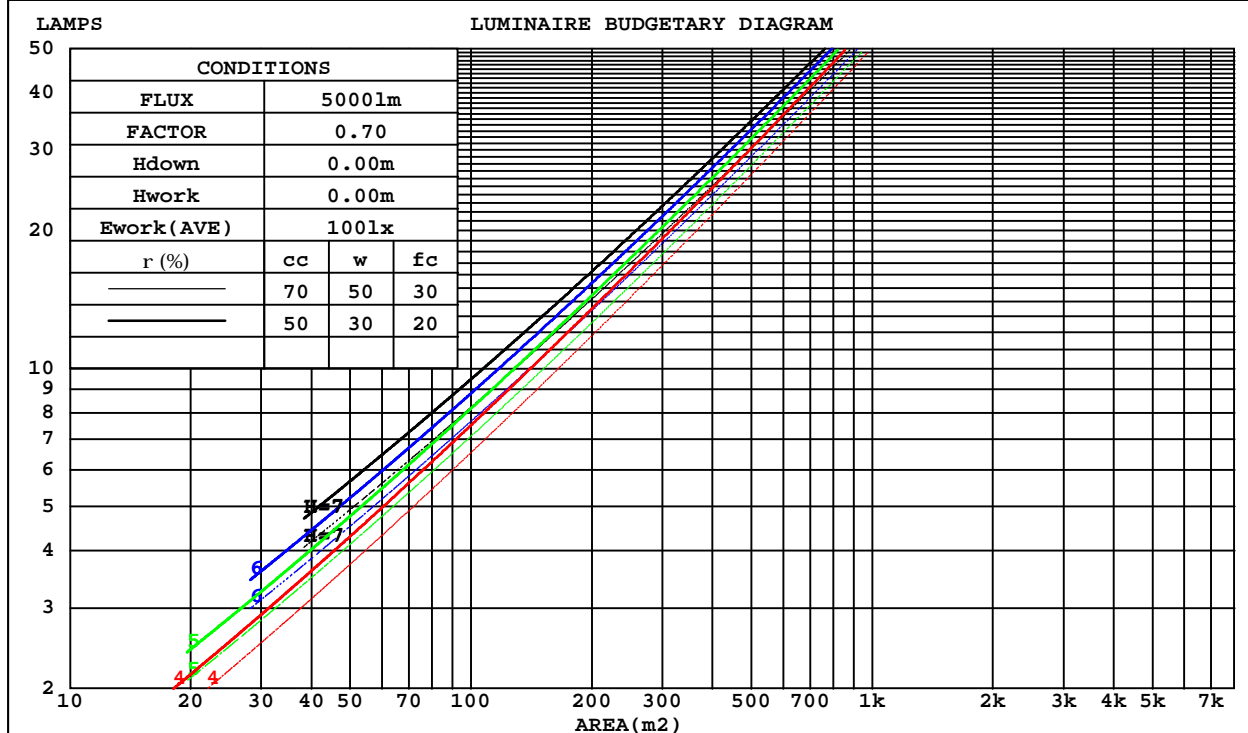


RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:190830004
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:

rcc	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	.62	.62	.62	.61	.61	.61	.58	.58	.58	.56	.56	.56	.53	.53	.53	.52
1.0	.56	.55	.53	.55	.54	.52	.53	.52	.51	.51	.50	.49	.49	.49	.48	.47
2.0	.51	.49	.46	.50	.48	.46	.49	.47	.45	.47	.45	.44	.46	.44	.43	.42
3.0	.47	.44	.41	.46	.43	.41	.45	.42	.40	.44	.41	.40	.42	.41	.39	.38
4.0	.43	.40	.37	.43	.40	.37	.42	.39	.37	.40	.38	.36	.39	.37	.36	.35
5.0	.40	.37	.34	.40	.36	.34	.39	.36	.34	.38	.35	.33	.37	.35	.33	.32
6.0	.38	.34	.31	.37	.34	.31	.36	.33	.31	.35	.33	.31	.35	.32	.31	.30
7.0	.35	.32	.29	.35	.31	.29	.34	.31	.29	.33	.31	.29	.33	.30	.28	.28
8.0	.33	.30	.27	.33	.29	.27	.32	.29	.27	.32	.29	.27	.31	.29	.27	.26
9.0	.31	.28	.25	.31	.28	.25	.30	.27	.25	.30	.27	.25	.29	.27	.25	.24
10.0	.29	.26	.24	.29	.26	.24	.29	.26	.24	.28	.26	.24	.28	.25	.24	.23



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:190830004
MFR.: RISE	SUR.:0.00384m2	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	.120	.068	.022	.117	.067	.021	.110	.063	.020	.104	.060	.019	.098	.057	.018															
2.0	.113	.062	.019	.110	.061	.019	.104	.058	.018	.099	.055	.017	.094	.053	.017															
3.0	.105	.056	.017	.103	.055	.017	.098	.053	.016	.093	.051	.016	.089	.049	.015															
4.0	.098	.051	.015	.096	.050	.015	.091	.048	.014	.087	.047	.014	.084	.045	.014															
5.0	.092	.047	.014	.090	.046	.013	.086	.045	.013	.082	.043	.013	.079	.042	.013															
6.0	.086	.043	.012	.084	.042	.012	.081	.041	.012	.078	.040	.012	.075	.039	.012															
7.0	.081	.040	.011	.079	.039	.011	.076	.038	.011	.073	.038	.011	.071	.037	.011															
8.0	.076	.037	.010	.075	.037	.010	.072	.036	.010	.070	.035	.010	.067	.035	.010															
9.0	.072	.035	.010	.071	.034	.010	.068	.034	.010	.066	.033	.009	.064	.033	.009															
10.0	.068	.033	.009	.067	.032	.009	.065	.032	.009	.063	.031	.009	.061	.031	.009															

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	.100	.100	.100	.085	.085	.085	.058	.058	.058	.033	.033	.033	.011	.011	.011	
1.0	.091	.082	.073	.078	.070	.063	.053	.048	.044	.031	.028	.025	.010	.009	.008	
2.0	.085	.069	.056	.073	.059	.048	.050	.041	.034	.029	.024	.020	.009	.008	.006	
3.0	.079	.059	.044	.068	.051	.038	.047	.036	.027	.027	.021	.016	.009	.007	.005	
4.0	.074	.052	.035	.064	.045	.031	.044	.031	.022	.025	.018	.013	.008	.006	.004	
5.0	.070	.046	.029	.060	.040	.025	.041	.028	.018	.024	.016	.011	.008	.005	.003	
6.0	.066	.041	.024	.056	.036	.021	.039	.025	.015	.023	.015	.009	.007	.005	.003	
7.0	.062	.038	.021	.053	.033	.018	.037	.023	.013	.021	.013	.008	.007	.004	.002	
8.0	.059	.034	.018	.051	.030	.015	.035	.021	.011	.020	.012	.007	.007	.004	.002	
9.0	.056	.032	.015	.048	.028	.013	.033	.019	.010	.019	.011	.006	.006	.004	.002	
10.0	.053	.029	.014	.046	.026	.012	.032	.018	.008	.019	.011	.005	.006	.003	.002	

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RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:190830004		
MFR.: RISE					SUR.:0.00384m2			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	28.2	29.4	28.5	29.6	29.7	23.6	24.7	23.8	24.9	25.0
3H	30.4	31.4	30.6	31.6	31.8	23.8	24.8	24.1	25.1	25.3
4H	31.3	32.3	31.6	32.5	32.8	23.9	24.9	24.2	25.1	25.3
6H	32.0	32.9	32.3	33.2	33.4	23.9	24.8	24.2	25.1	25.3
8H	32.2	33.1	32.5	33.4	33.6	23.8	24.7	24.1	25.0	25.3
12H	32.3	33.2	32.6	33.4	33.7	23.8	24.6	24.1	24.9	25.2
4H 2H	28.6	29.6	28.9	29.9	30.1	25.1	26.1	25.4	26.4	26.6
3H	31.2	32.0	31.5	32.3	32.6	25.8	26.7	26.1	27.0	27.3
4H	32.3	33.1	32.7	33.4	33.7	26.1	26.9	26.5	27.2	27.5
6H	33.2	33.9	33.6	34.2	34.6	26.2	26.9	26.6	27.3	27.6
8H	33.4	34.1	33.8	34.5	34.8	26.2	26.9	26.6	27.2	27.6
12H	33.6	34.2	34.0	34.6	35.0	26.2	26.8	26.6	27.2	27.5
8H 4H	32.5	33.2	32.9	33.5	33.9	27.6	28.3	28.0	28.7	29.0
6H	33.6	34.2	34.0	34.6	35.0	28.0	28.5	28.4	28.9	29.3
8H	34.0	34.5	34.5	34.9	35.4	27.9	28.4	28.4	28.8	29.3
12H	34.2	34.7	34.7	35.1	35.6	27.9	28.4	28.4	28.8	29.3
12H 4H	32.5	33.1	32.9	33.5	33.9	27.9	28.5	28.4	28.9	29.3
6H	33.6	34.1	34.1	34.5	35.0	28.4	28.8	28.8	29.3	29.7
8H	34.1	34.5	34.5	34.9	35.4	28.4	28.8	28.8	29.2	29.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.4 / - 0.5				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.6				
2.0H	+ 0.2 / - 0.2					+ 0.5 / - 0.7				

CIE Pub.117, 1328 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.0$)

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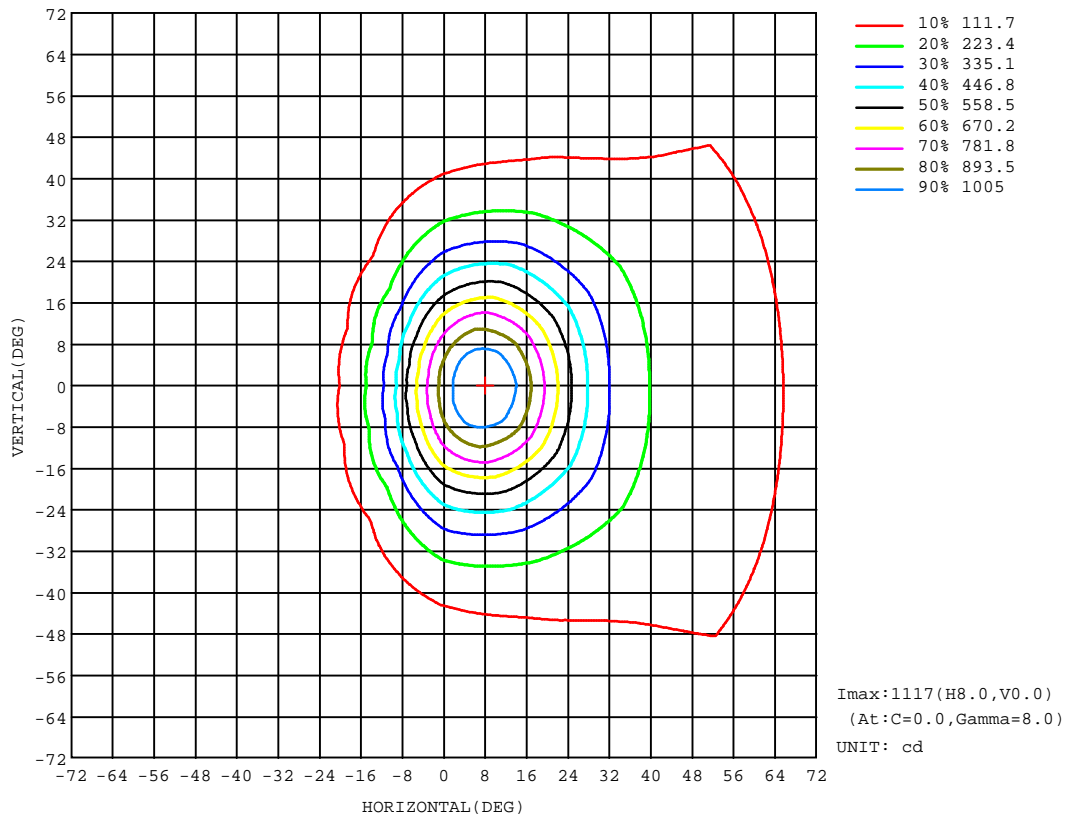
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	39	35	32	39	35	32	38	34	32	29
0.80	44	39	37	43	39	36	42	39	36	34
1.00	47	43	40	46	42	40	45	43	39	37
1.25	49	46	43	49	45	43	48	45	42	39
1.50	51	48	45	51	47	45	49	46	44	41
2.00	54	50	48	53	50	48	51	49	47	44
2.50	55	52	50	54	51	49	52	50	48	45
3.00	56	54	52	55	53	51	53	51	50	46
4.00	58	56	54	57	55	53	55	53	52	48
5.00	59	57	55	57	56	55	55	54	53	49
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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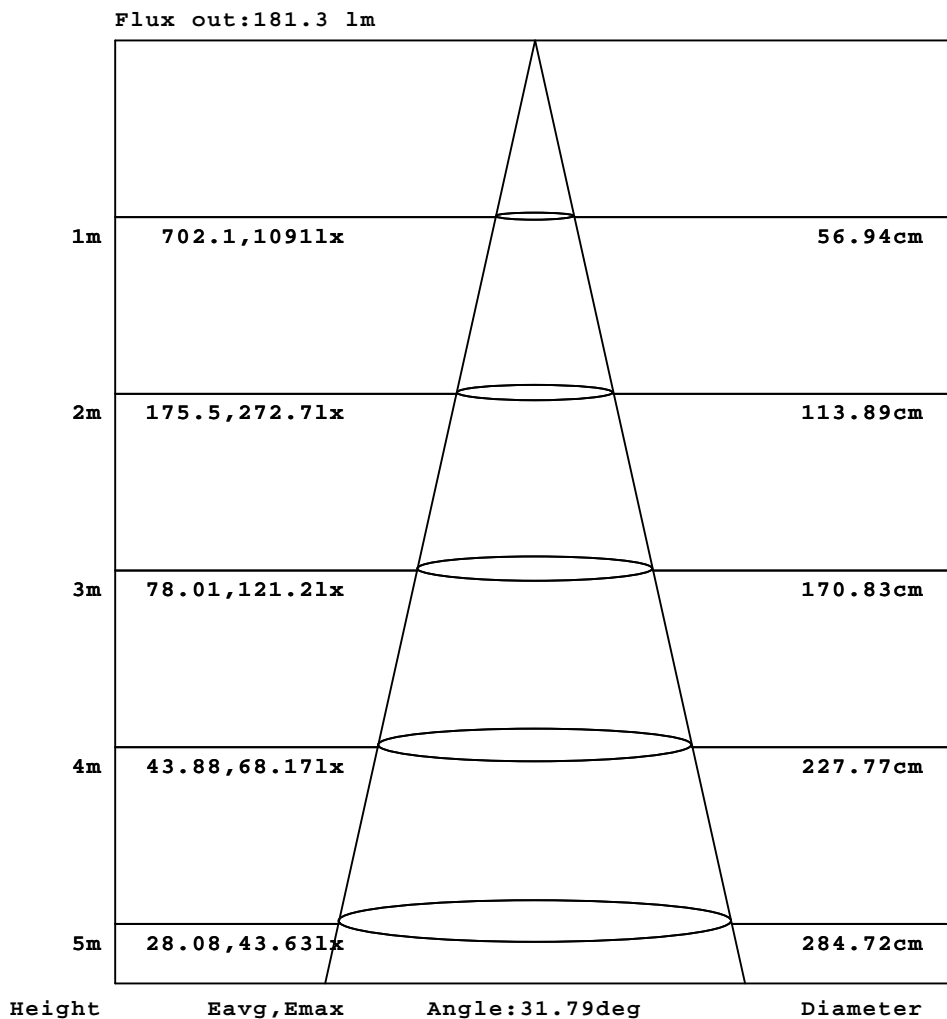


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AAI Figure

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NAME: 1918.124	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:190830004
MFR.: RISE	SUR.:0.00384m2	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:2019-08-30

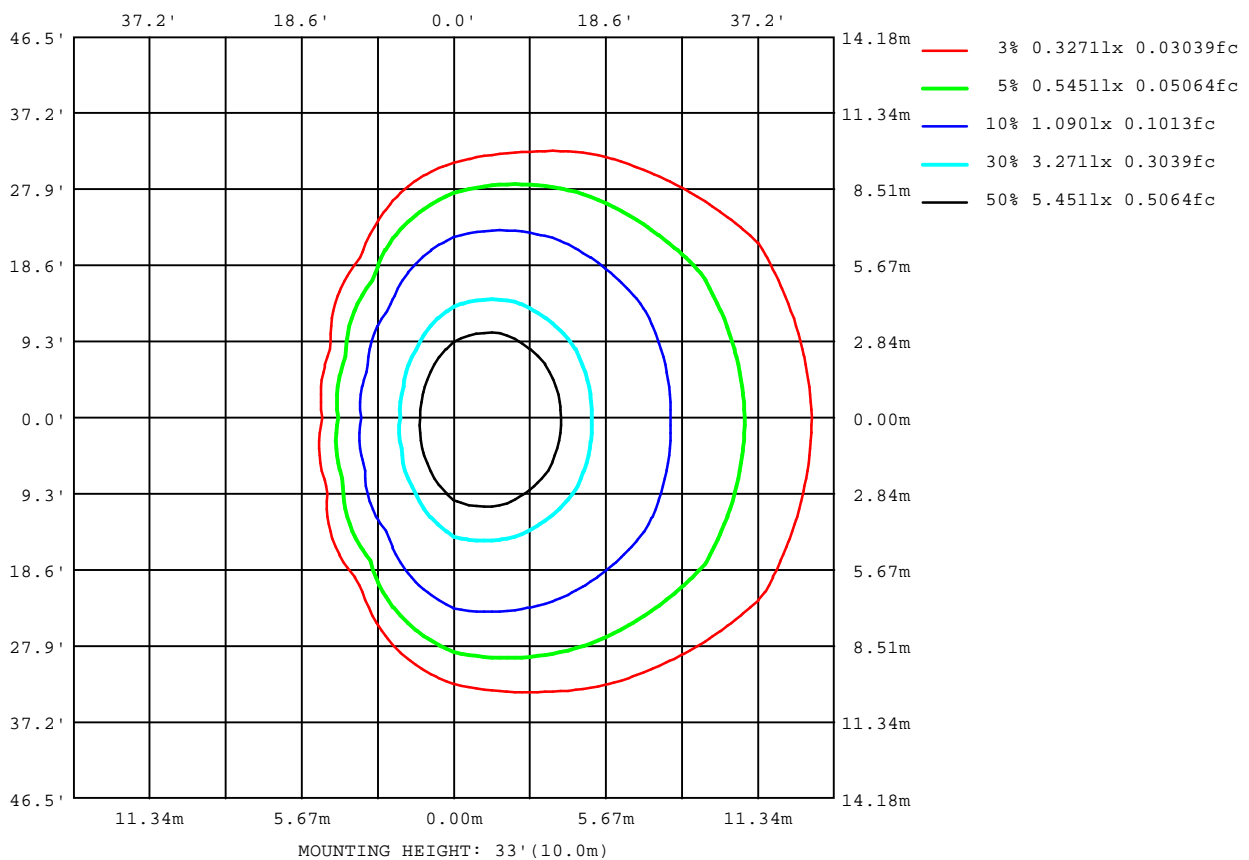
g Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 CRI:90
LENS:CKO-CS18-0035018-1301 10R
DRIVER:PHILIPS 9290 014 220 350mA
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:220.19V I:0.0701A P:14.804W PF:0.9562 Freq:49.99Hz Lamp Flux:1328.46x1 lm		
NAME: 1918.124	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:190830004
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GUO
Test Date:2019-08-30

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 CRI:90
LENS:CKO-CS18-0035018-1301 10R
DRIVER:PHILIPS 9290 014 220 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.19V I:0.0701A P:14.804W PF:0.9562 Freq:49.99Hz Lamp Flux:1328.46x1 lm		
NAME: 1918.124	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:190830004
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:

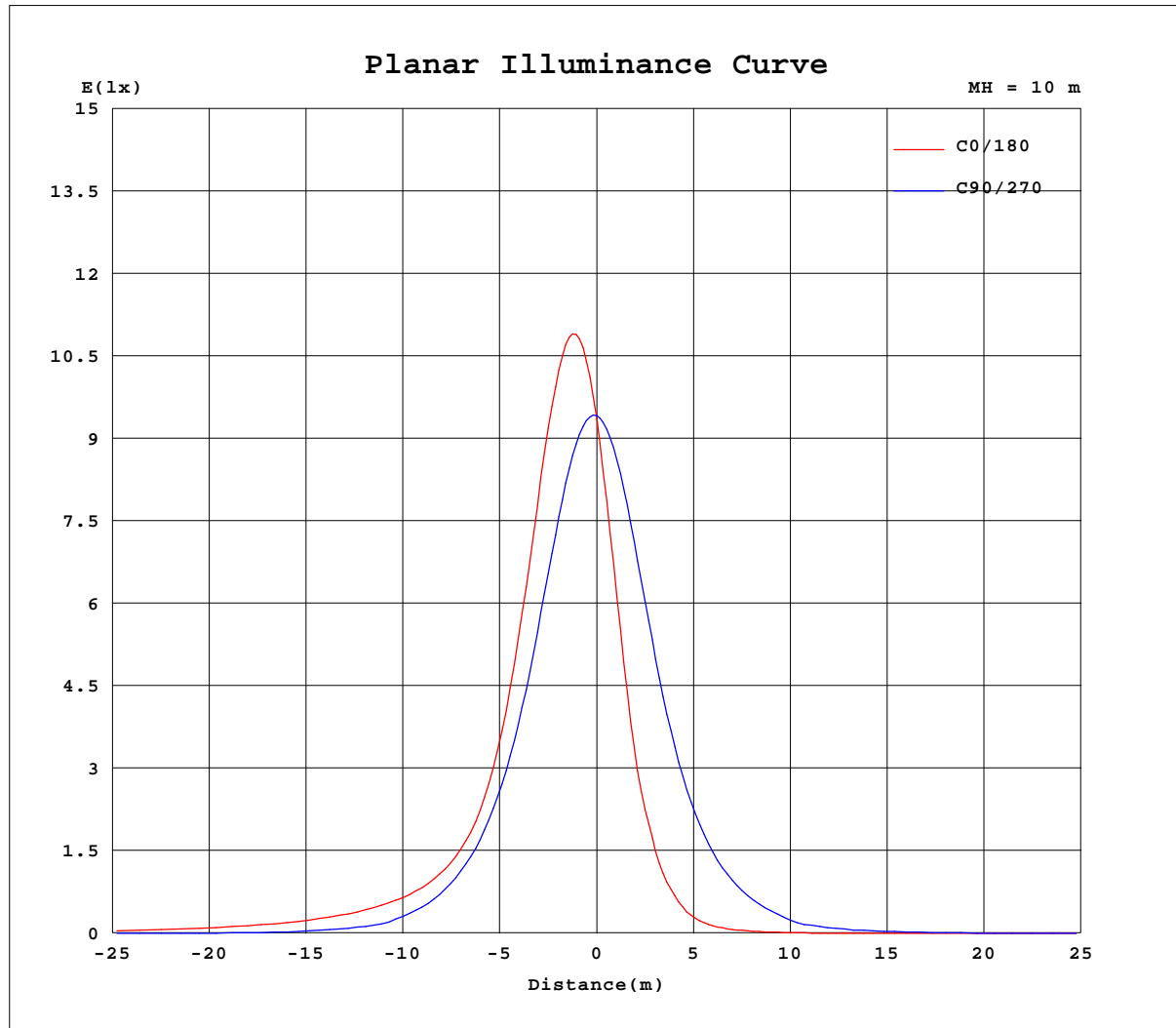
AvgL	cd/m2
L_0~180(65)av	34973
L_0~180(75)av	37048
L_0~180(85)av	25750
L_90~270(65)av	5376
L_90~270(75)av	1007
L_90~270(85)av	481
L_45(65)av	24510
L_45(75)av	28616
L_45(85)av	24177

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:GUO
Test Date:2019-08-30

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 CRI:90
LENS:CKO-CS18-0035018-1301 10R
DRIVER:PHILIPS 9290 014 220 350mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: GUO
 Test Date: 2019-08-30

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 CRI: 90
 LENS: CKO-CS18-0035018-1301 10R
 DRIVER: PHILIPS 9290 014 220 350mA
 30minutes warm-up

RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.19V I:0.0701A P:14.804W PF:0.9562 Freq:49.99Hz Lamp Flux:1328.46x1 lm		
NAME: 1918.124	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:190830004
MFR.: RISE	SUR.:0.00384m2	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: 2019-08-30

```

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 CRI:90
          LENS:CKO-CS18-0035018-1301 10R
          DRIVER:PHILIPS 9290 014 220 350mA
          30minutes warm-up

```