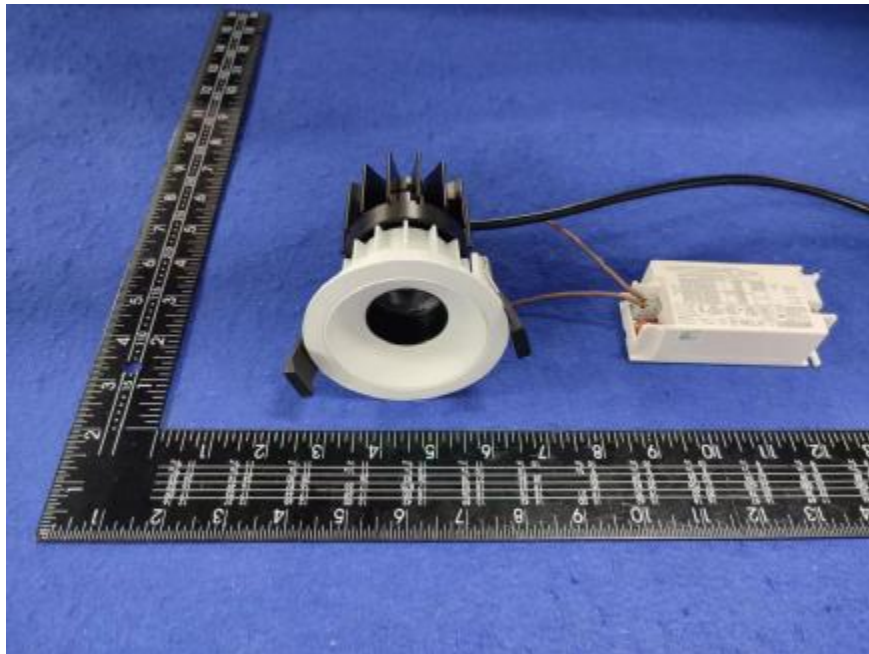


### Luminaire Photograph



Light Output Ratio:	72.9%	
Luminaire Power:	13.84 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CLU028-1204C4-303H5M3-F1 Ra:90  
LENS: PM-1082A 24R  
DRIVER: IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

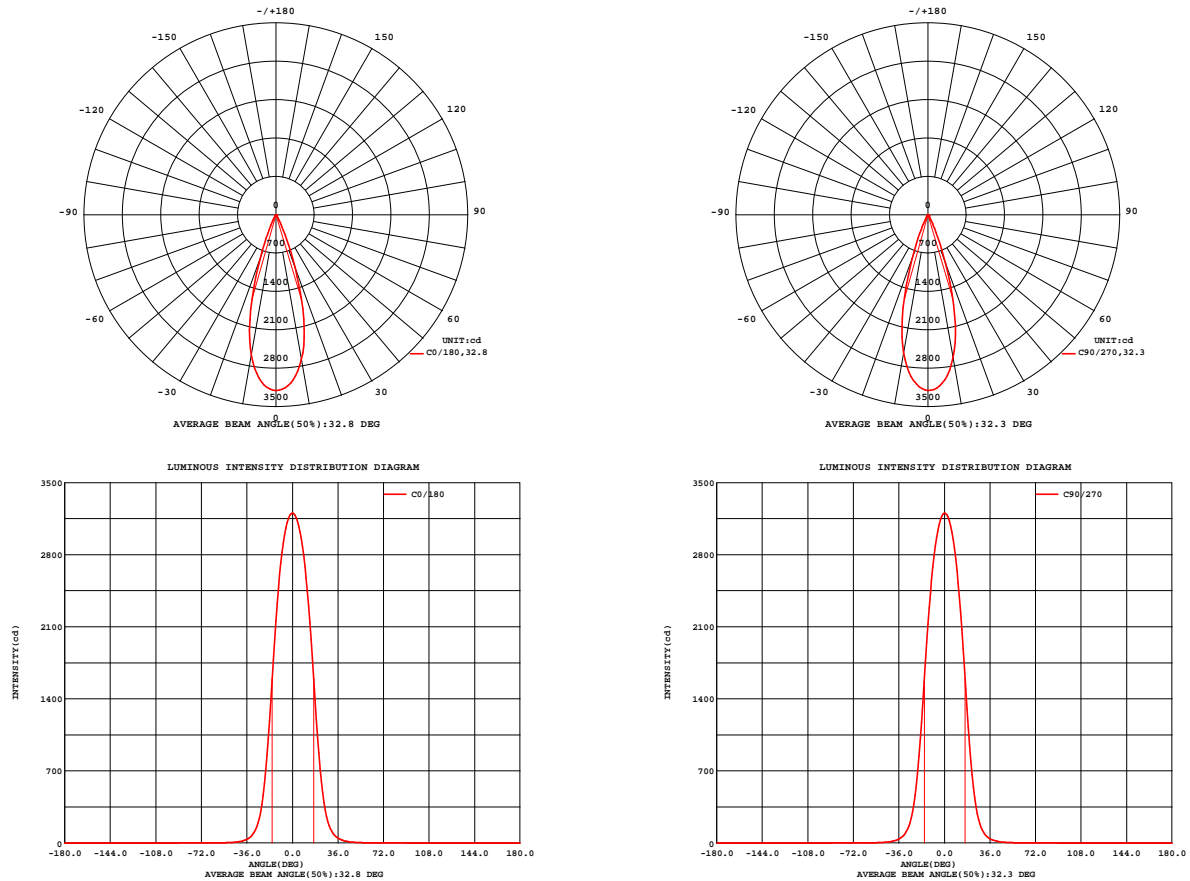


Fig. C0/C180

Fig. C90/C270

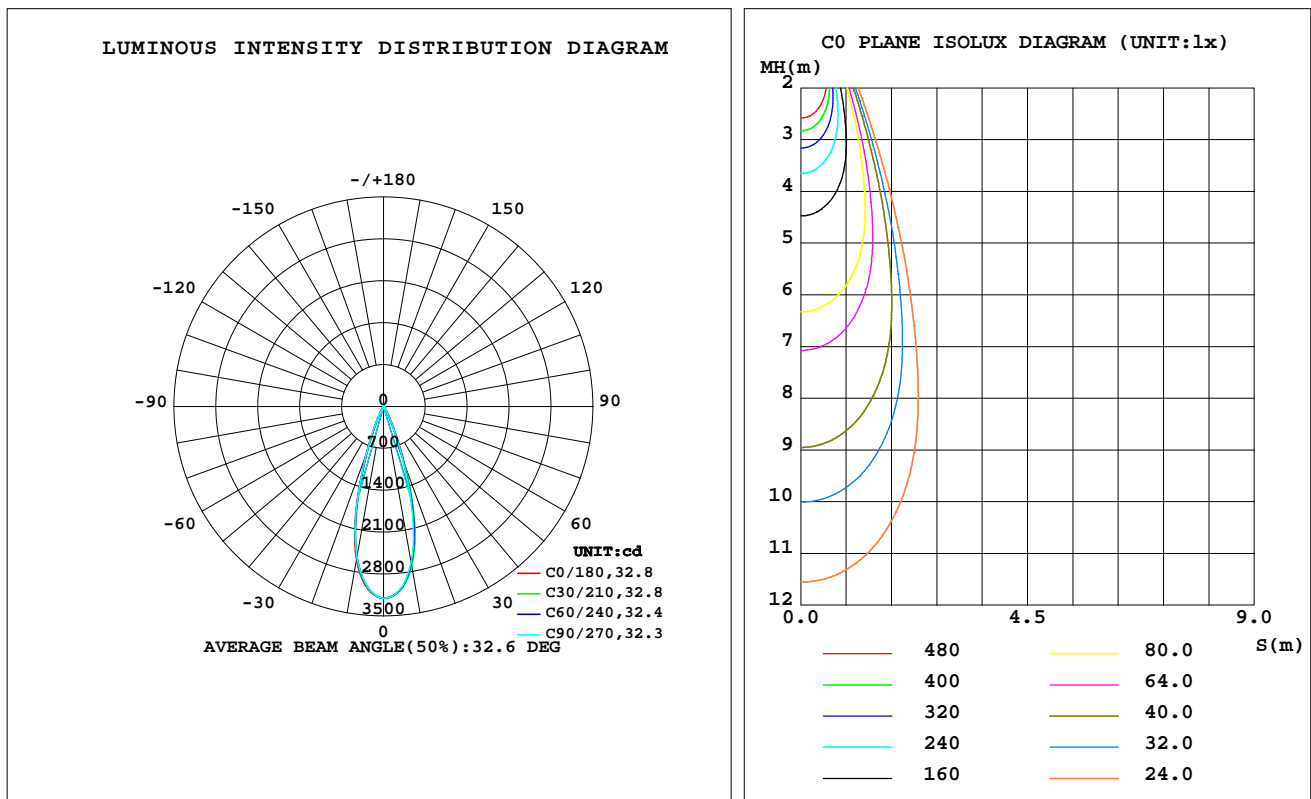
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CLU028-1204C4-303H5M3-F1 Ra: 90  
LENS: PM-1082A 24R  
DRIVER: IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz Lamp Flux:1345.45x1 lm		
NAME: 2318.110-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312041415
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.91 lm/W			
MODEL	CITIZEN	I <sub>max</sub> (cd)	3203	S/MH(C0/180)	0.50
NOMINAL POWER(W)	14	LOR(%)	72.9	S/MH(C90/270)	0.50
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	981.42	η UP,DN(C0-180)	0.0,37.6
NOMINAL FLUX(lm)	1345.45	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,35.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	72.9	CIBSE SHR MAX	0.50



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	2682	2693	2648	2603	2605	2561	2558	2622	0- 10	278.3	278.3	28.4,20.7
20	1024	1025	948.8	854.6	852.6	818.2	848.1	932.8	10- 20	486.7	765.1	78,56.9
30	139.4	139.6	125.0	103.8	105.3	101.9	109.3	121.3	20- 30	172.3	937.4	95.5,69.7
40	25.47	24.87	22.33	17.53	18.20	17.67	19.56	22.45	30- 40	33.53	970.9	98.9,72.2
50	5.546	5.439	4.943	3.596	3.937	3.860	4.442	5.049	40- 50	7.660	978.6	99.7,72.7
60	1.072	1.024	0.9198	0.6521	0.7272	0.7082	0.7654	0.9101	50- 60	2.265	980.9	99.9,72.9
70	0.2262	0.2142	0.1813	0.1214	0.1543	0.1454	0.1562	0.2074	60- 70	0.4387	981.3	100,72.9
80	0.0599	0.0467	0.0400	0.0482	0.0496	0.0393	0.0466	0.0773	70- 80	0.0907	981.4	100,72.9
90	0	0	0	0	0	0	0	0	80- 90	0.0398	981.4	100,72.9
100	0	0	0	0	0	0	0	0	90-100	0	981.4	100,72.9
110	0	0	0	0	0	0	0	0	100-110	0	981.4	100,72.9
120	0	0	0	0	0	0	0	0	110-120	0	981.4	100,72.9
130	0	0	0	0	0	0	0	0	120-130	0	981.4	100,72.9
140	0	0	0	0	0	0	0	0	130-140	0	981.4	100,72.9
150	0	0	0	0	0	0	0	0	140-150	0	981.4	100,72.9
160	0	0	0	0	0	0	0	0	150-160	0	981.4	100,72.9
170	0	0	0	0	0	0	0	0	160-170	0	981.4	100,72.9
180	0	0	0	0	0	0	0	0	170-180	0	981.4	100,72.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz  
Lamp Flux:1345.45x1 lm

NAME: 2318.110-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

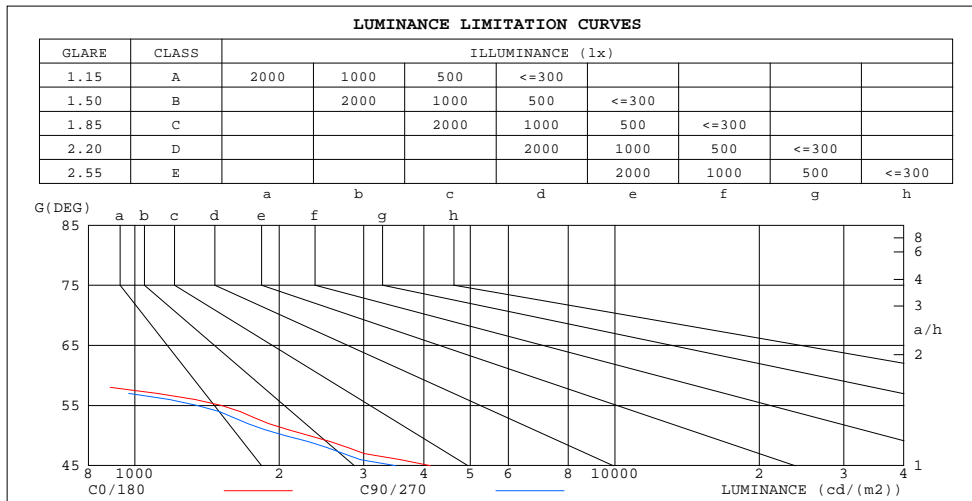
DIM.:

SERIAL No.: 2312041415

MFR.: RISE

SUR.: 0.003737385m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	128	113
80	92	62
75	97	40
70	177	142
65	325	289
60	574	492
55	1519	1352
50	2309	2059
45	4130	3499

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz  
Lamp Flux:1345.45x1 lm

NAME: 2318.110-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

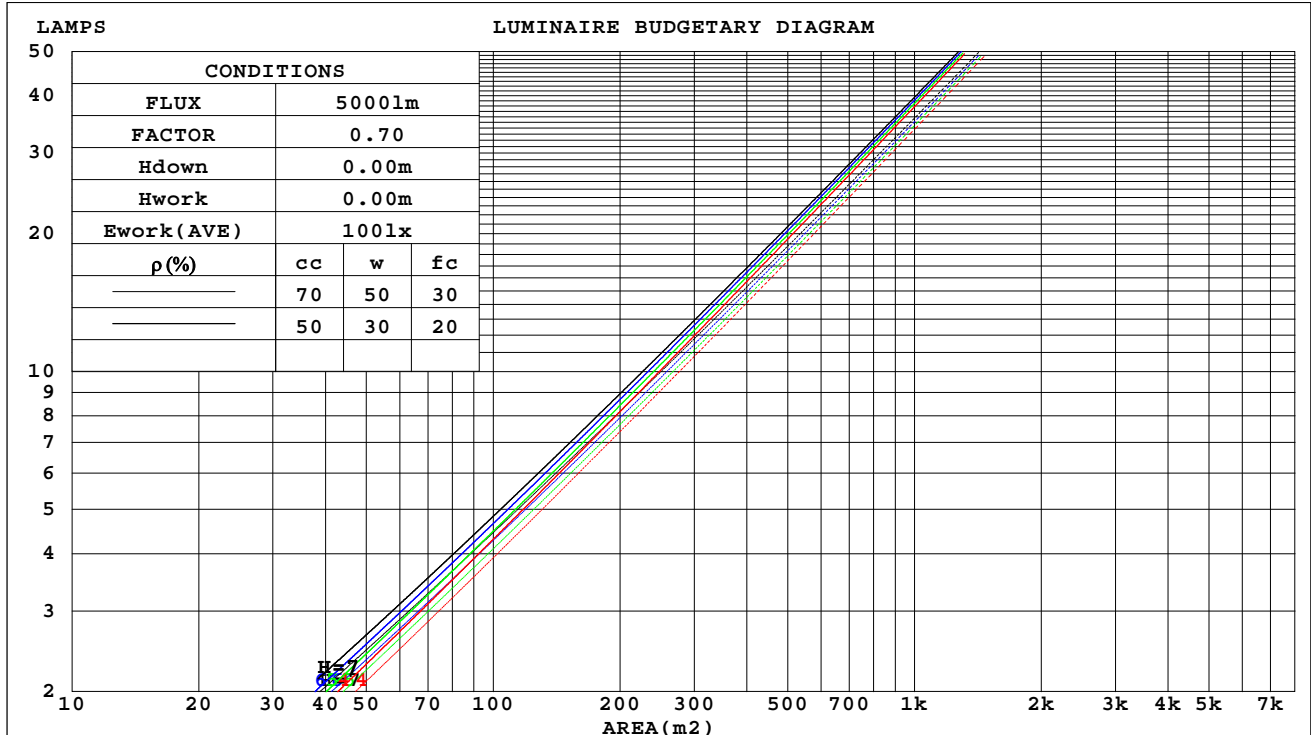
SERIAL No.: 2312041415

MFR.: RISE

SUR.: 0.003737385m2

Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	.87	.87	.87	.85	.85	.85	.81	.81	.81	.78	.78	.78	.74	.74	.74	.73
1.0	.82	.81	.80	.81	.79	.78	.78	.77	.76	.75	.74	.74	.73	.72	.72	.70
2.0	.78	.76	.74	.77	.75	.73	.75	.73	.72	.73	.71	.70	.71	.70	.69	.68
3.0	.75	.72	.70	.74	.71	.69	.72	.70	.68	.70	.69	.67	.69	.67	.66	.65
4.0	.72	.69	.66	.71	.68	.66	.69	.67	.65	.68	.66	.65	.67	.65	.64	.63
5.0	.69	.66	.63	.68	.65	.63	.67	.65	.63	.66	.64	.62	.65	.63	.62	.61
6.0	.66	.63	.61	.66	.63	.61	.65	.62	.60	.64	.62	.60	.63	.61	.60	.59
7.0	.64	.61	.59	.64	.61	.58	.63	.60	.58	.62	.60	.58	.61	.59	.58	.57
8.0	.62	.59	.56	.61	.58	.56	.61	.58	.56	.60	.58	.56	.59	.57	.56	.55
9.0	.60	.57	.55	.59	.57	.55	.59	.56	.54	.58	.56	.54	.58	.56	.54	.53
10.0	.58	.55	.53	.58	.55	.53	.57	.55	.53	.57	.54	.53	.56	.54	.52	.52



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

### WEC AND CCEC

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz Lamp Flux:1345.45x1 lm		
NAME: 2318.110-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312041415
MFR.: RISE	SUR.: 0.003737385m2	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	.102	.058	.018	.098	.056	.018	.089	.051	.016	.080	.046	.015	.073	.042	.014	
2.0	.095	.052	.016	.091	.050	.015	.084	.047	.014	.077	.043	.014	.071	.040	.013	
3.0	.089	.047	.014	.086	.046	.014	.079	.043	.013	.074	.040	.012	.068	.038	.012	
4.0	.084	.044	.013	.081	.042	.013	.076	.040	.012	.071	.038	.011	.066	.036	.011	
5.0	.079	.040	.012	.077	.039	.011	.072	.038	.011	.068	.036	.011	.064	.034	.010	
6.0	.075	.038	.011	.073	.037	.011	.069	.035	.010	.065	.034	.010	.062	.033	.010	
7.0	.071	.035	.010	.070	.035	.010	.066	.034	.010	.063	.032	.009	.060	.031	.009	
8.0	.068	.033	.009	.067	.033	.009	.064	.032	.009	.061	.031	.009	.058	.030	.009	
9.0	.065	.032	.009	.064	.031	.009	.061	.030	.009	.059	.030	.008	.057	.029	.008	
10.0	.063	.030	.008	.062	.030	.008	.059	.029	.008	.057	.028	.008	.055	.028	.008	

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	.139	.139	.139	.119	.119	.119	.081	.081	.081	.047	.047	.047	.015	.015	.015		
1.0	.123	.115	.108	.105	.099	.093	.072	.068	.064	.041	.039	.037	.013	.013	.012		
2.0	.110	.097	.086	.094	.083	.074	.065	.058	.052	.037	.034	.030	.012	.011	.010		
3.0	.099	.083	.069	.085	.071	.060	.058	.050	.042	.034	.029	.025	.011	.009	.008		
4.0	.090	.071	.057	.077	.062	.050	.053	.043	.035	.031	.025	.021	.010	.008	.007		
5.0	.083	.063	.048	.071	.054	.041	.049	.038	.029	.028	.022	.017	.009	.007	.006		
6.0	.076	.055	.040	.066	.048	.035	.045	.034	.025	.026	.020	.015	.008	.006	.005		
7.0	.071	.049	.034	.061	.043	.030	.042	.030	.021	.025	.018	.013	.008	.006	.004		
8.0	.066	.045	.029	.057	.039	.026	.040	.027	.018	.023	.016	.011	.007	.005	.004		
9.0	.062	.040	.026	.054	.035	.022	.037	.025	.016	.022	.015	.009	.007	.005	.003		
10.0	.059	.037	.022	.051	.032	.020	.035	.023	.014	.021	.013	.008	.007	.004	.003		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz Lamp Flux:1345.45x1 lm										
NAME: 2318.110-ACOT-70					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2312041415		
MFR.: RISE					SUR.: 0.003737385m2			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	7.5	8.2	7.7	8.3	8.5	6.7	7.4	7.0	7.6	7.7
3H	7.3	8.0	7.6	8.2	8.3	6.6	7.2	6.8	7.4	7.6
4H	7.3	7.9	7.5	8.1	8.3	6.5	7.1	6.8	7.3	7.5
6H	7.2	7.7	7.5	8.0	8.2	6.4	7.0	6.7	7.2	7.5
8H	7.1	7.7	7.4	7.9	8.2	6.4	6.9	6.7	7.2	7.4
12H	7.1	7.6	7.4	7.9	8.1	6.3	6.9	6.7	7.1	7.4
4H 2H	7.3	7.9	7.5	8.1	8.3	6.5	7.1	6.8	7.3	7.6
3H	7.1	7.6	7.4	7.9	8.2	6.4	6.9	6.7	7.2	7.4
4H	7.0	7.5	7.3	7.8	8.1	6.3	6.8	6.6	7.0	7.3
6H	6.9	7.3	7.3	7.7	8.0	6.2	6.6	6.5	6.9	7.3
8H	6.9	7.2	7.2	7.6	8.0	6.1	6.5	6.5	6.9	7.2
12H	6.8	7.2	7.2	7.5	7.9	6.1	6.4	6.5	6.8	7.2
8H 4H	6.9	7.2	7.2	7.6	8.0	6.1	6.5	6.5	6.9	7.2
6H	6.7	7.1	7.2	7.5	7.9	6.0	6.3	6.4	6.7	7.1
8H	6.7	7.0	7.1	7.4	7.8	6.0	6.2	6.4	6.7	7.1
12H	6.6	6.9	7.1	7.3	7.8	5.9	6.1	6.4	6.6	7.0
12H 4H	6.8	7.2	7.2	7.5	7.9	6.1	6.4	6.5	6.8	7.2
6H	6.7	7.0	7.1	7.4	7.8	5.9	6.2	6.4	6.7	7.1
8H	6.6	6.9	7.1	7.3	7.8	5.9	6.1	6.4	6.6	7.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.4 / - 9.5					+ 3.3 / - 9.6				
1.5H	+ 5.4 / - 5.9					+ 5.3 / - 5.8				
2.0H	+ 5.3 / - 8.4					+ 4.9 / - 8.1				

CIE Pub.117, 1345 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)  
Area: 0.00373738 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up



### UTILIZATION FACTORS TABLE

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz Lamp Flux:1345.45x1 lm		
NAME: 2318.110-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312041415
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

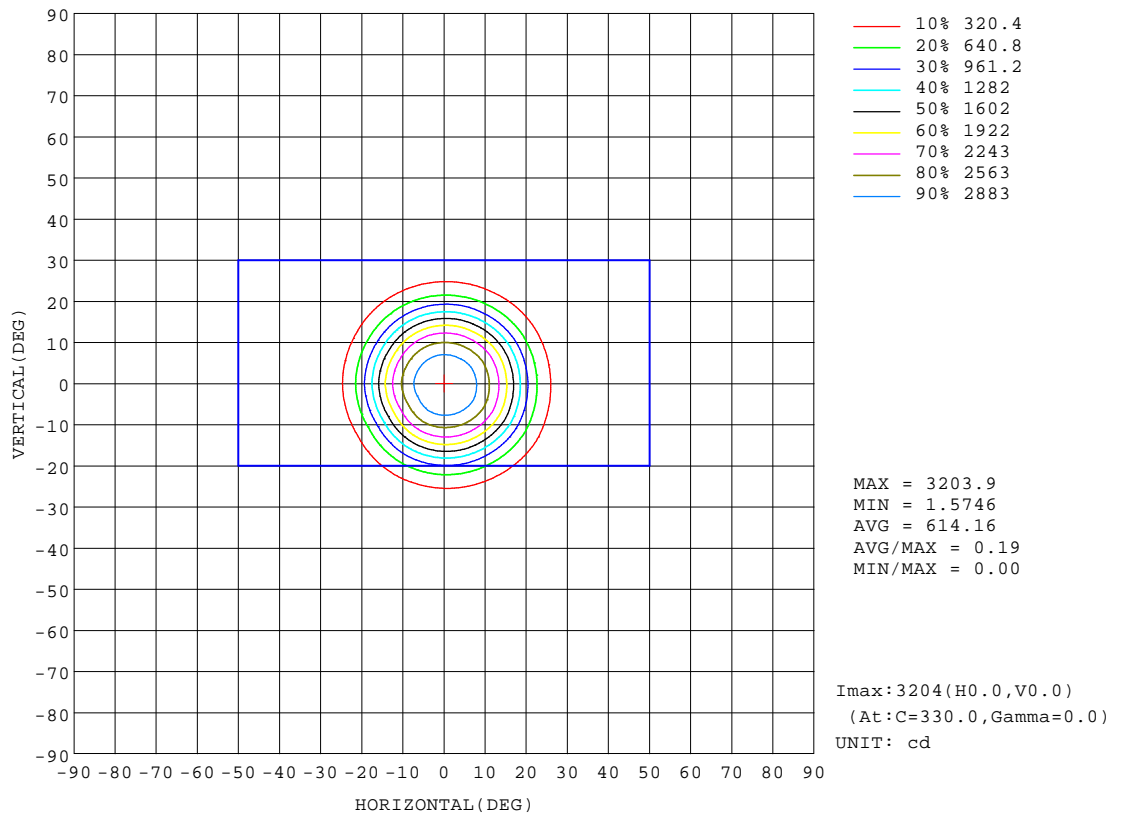
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	62	60	66	62	60	65	62	59	57
0.80	71	68	65	71	67	65	70	67	65	62
1.00	74	71	68	74	70	68	72	70	68	65
1.25	77	73	71	76	73	71	75	72	70	67
1.50	79	75	73	78	75	73	76	74	72	69
2.00	80	77	75	79	77	75	77	75	74	70
2.50	81	79	77	80	78	76	78	76	75	71
3.00	82	80	78	81	79	77	78	77	76	71
4.00	84	82	80	82	81	79	79	78	77	72
5.00	84	83	82	83	82	81	80	79	78	73
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

## ISOCANDELA DIAGRAM

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz Lamp Flux:1345.45x1 lm		
NAME: 2318.110-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312041415
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

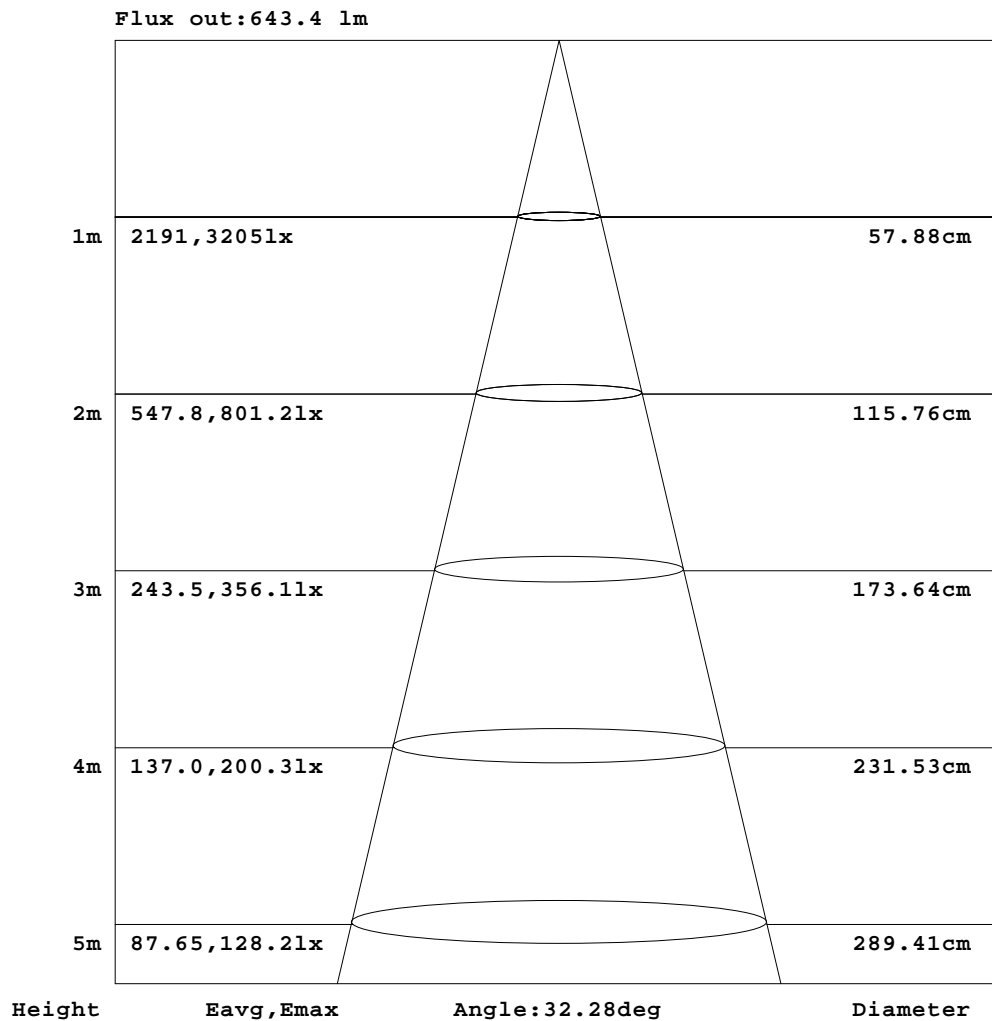


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CLU028-1204C4-303H5M3-F1 Ra: 90  
LENS: PM-1082A 24R  
DRIVER: IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

## AAI Figure

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz Lamp Flux:1345.45x1 lm		
NAME: 2318.110-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312041415
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



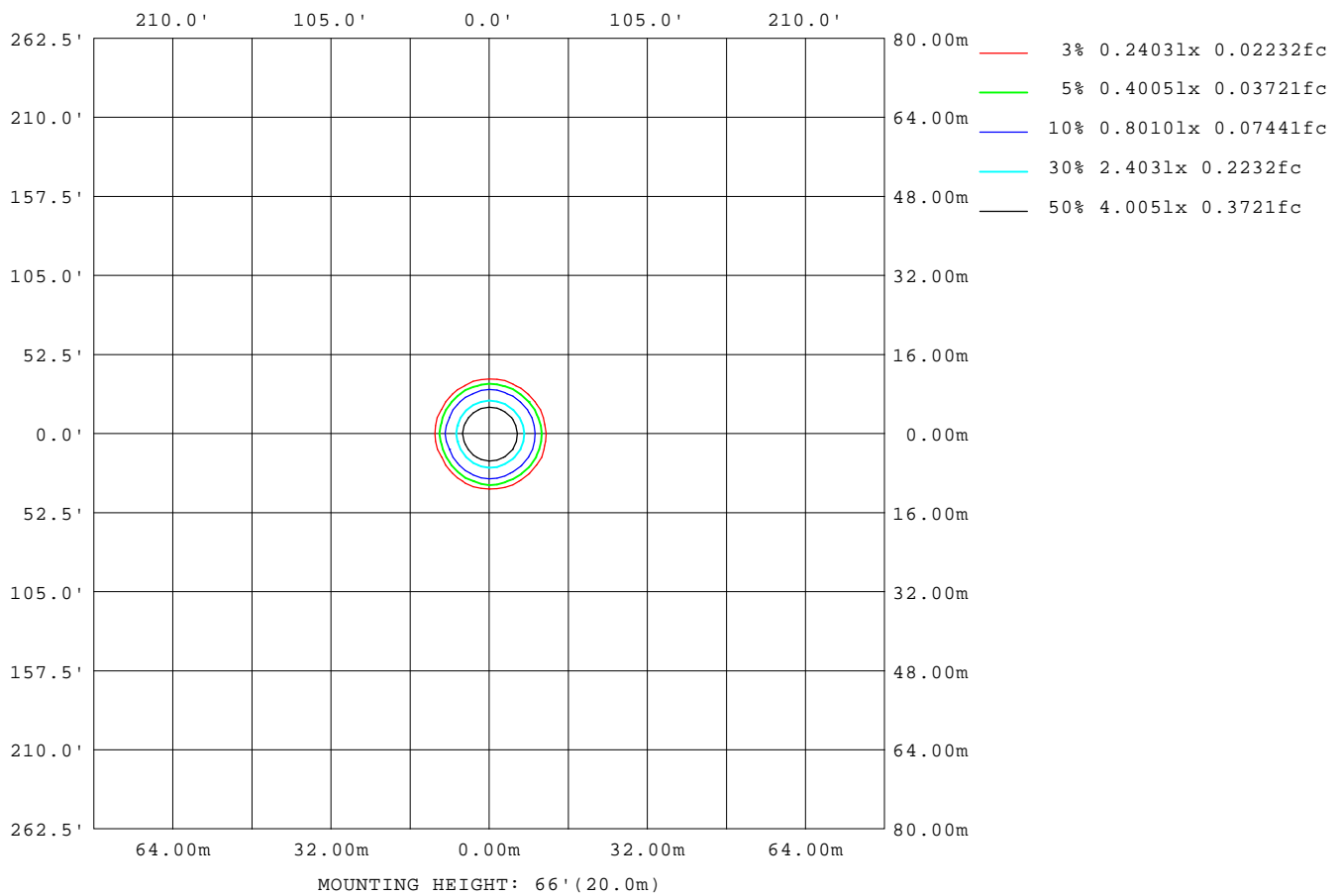
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz Lamp Flux:1345.45x1 lm		
NAME: 2318.110-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312041415
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:zoe  
Test Date:2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz Lamp Flux:1345.45x1 lm		
NAME: 2318.110-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312041415
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

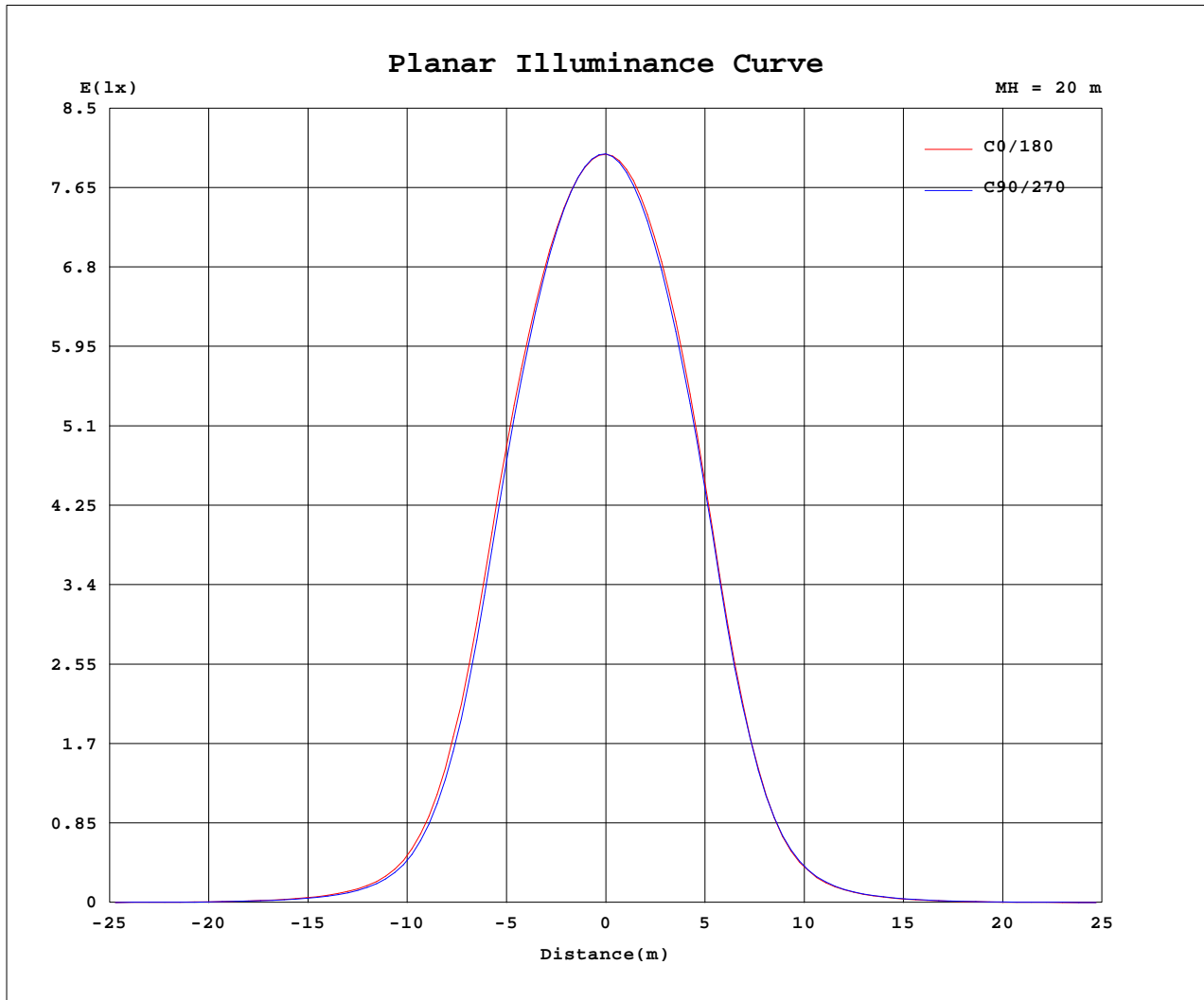
AvgL	cd/m2
L_0~180(65)av	276
L_0~180(75)av	83
L_0~180(85)av	116
L_90~270(65)av	262
L_90~270(75)av	53
L_90~270(85)av	112
L_45(65)av	263
L_45(75)av	77
L_45(85)av	115

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: zoe  
 Test Date: 2023-12-4

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 3.160m [K=1.0000]  
 Remarks: LAMP: CLU028-1204C4-303H5M3-F1 Ra:90  
 LENS: PM-1082A 24R  
 DRIVER: IT FIT 20/220-240/500 CS 350mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.25V I:0.0647A P:13.841W PF:0.9694 Freq:49.99Hz Lamp Flux:1345.45x1 lm		
NAME: 2318.110-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312041415
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3203	3203	3203	3203	3203	3203	3203	3203	3203	3203	3203	3203						
5	3080	3095	3085	3077	3074	3050	3059	3039	3035	3034	3034	3076						
10	2682	2711	2675	2648	2633	2573	2605	2564	2558	2558	2587	2658						
15	1973	2013	1947	1889	1841	1740	1783	1723	1741	1758	1811	1925						
20	1024	1058	991	949	906	804	853	818	818	848	886	980						
25	394	416	374	355	321	276	297	280	289	303	321	369						
30	139	147	132	125	112	95.6	105	100	103	109	114	128						
35	57.8	59.8	54.2	51.1	46.1	40.5	43.0	40.7	42.3	45.0	47.6	52.5						
40	25.5	26.2	23.6	22.3	20.3	14.8	18.2	17.3	18.1	19.6	21.3	23.6						
45	10.9	11.2	9.86	9.24	8.77	5.57	7.00	6.82	6.86	7.86	8.92	9.97						
50	5.55	5.69	5.19	4.94	4.67	2.52	3.94	3.78	3.94	4.44	4.84	5.26						
55	3.26	3.27	3.07	2.90	2.63	1.40	2.12	2.04	2.22	2.63	2.80	3.02						
60	1.07	1.05	1.00	0.92	0.83	0.47	0.73	0.70	0.71	0.77	0.84	0.98						
65	0.51	0.52	0.49	0.46	0.42	0.32	0.36	0.34	0.34	0.37	0.40	0.50						
70	0.23	0.22	0.21	0.18	0.07	0.17	0.15	0.15	0.14	0.16	0.17	0.25						
75	0.09	0.09	0.08	0.04	0.04	0.07	0.07	0.06	0.06	0.06	0.06	0.14						
80	0.06	0.05	0.05	0.04	0.04	0.06	0.05	0.04	0.04	0.05	0.04	0.11						
85	0.04	0.03	0.03	0.04	0.03	0.04	0.03	0.02	0.02	0.04	0.03	0.10						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
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						
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						
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						
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						
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						
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						
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						
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						
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						
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						
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						
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						
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						
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						
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						
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						

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-4

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
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Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
DRIVER:IT FIT 20/220-240/500 CS 350mA  
30minutes warm-up