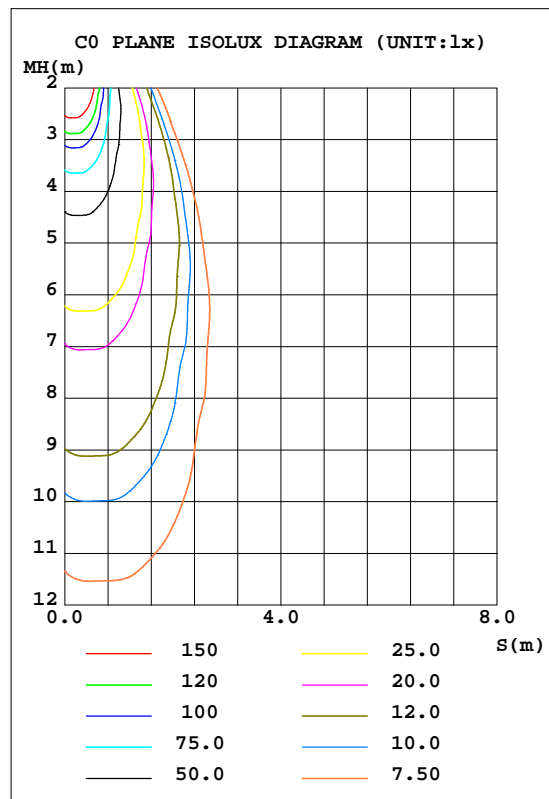
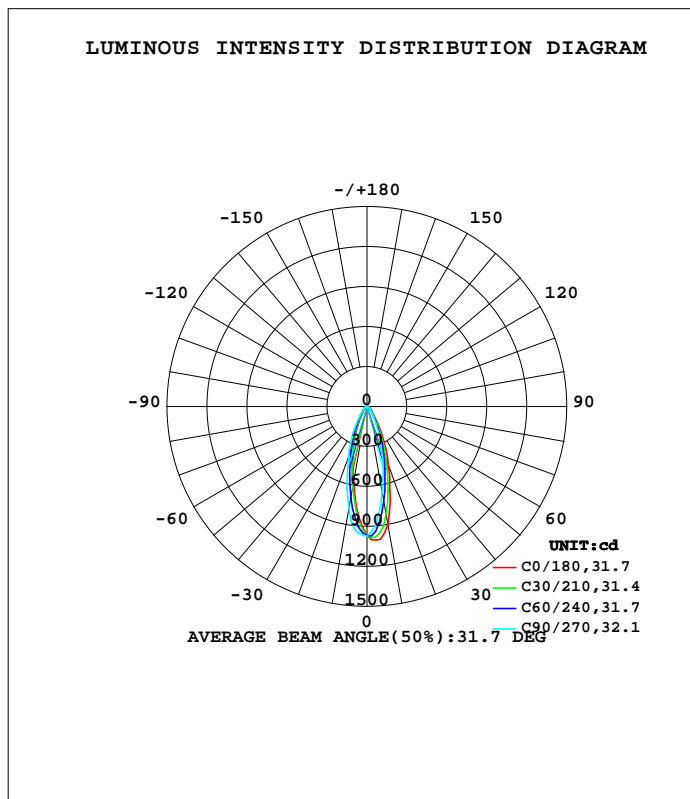


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm		
NAME: Coast 5W LED recessed down light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 77.51 lm/W
MODEL	1427SA-5R	I <sub>max</sub> (cd)	1020	S/MH(C0/180)	0.43	
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.57	
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	473.07	h UP, DN(C0-180)	0.0,46.5	
NOMINAL FLUX(lm)	473.073	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,53.5	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230.0	h down(%)	100.0	CIBSE SHR MAX	0.60	



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:01 August 2023

Range: 0 - 90DEG  
 Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

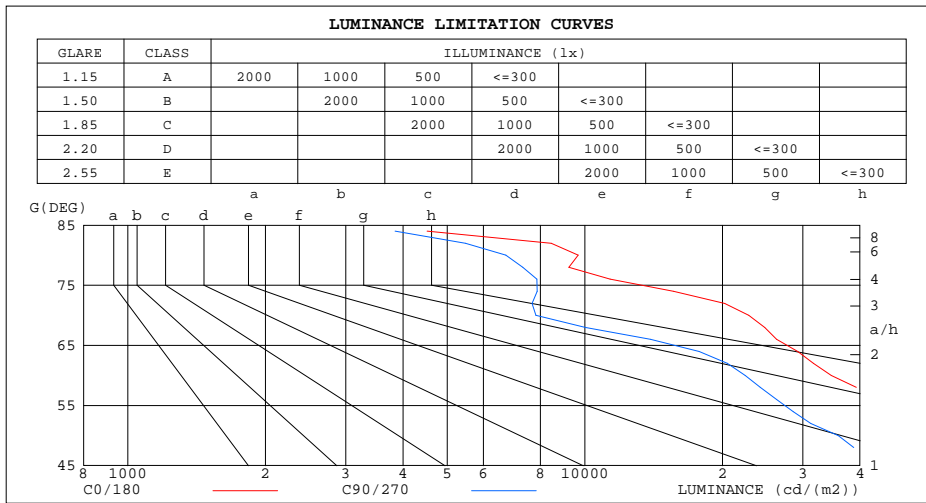
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	899.4	777.4	655.7	599.2	580.3	651.9	781.3	902.3	0- 10	80.75	80.75	17.1,17.1
20	470.9	388.7	313.8	280.3	285.3	330.7	406.6	484.5	10- 20	148.0	228.8	48.4,48.4
30	202.4	151.9	117.6	103.6	106.1	134.9	180.1	217.1	20- 30	113.0	341.8	72.3,72.3
40	72.21	59.31	49.60	46.68	46.56	54.39	65.46	76.11	30- 40	59.14	401.0	84.8,84.8
50	38.53	34.30	28.97	29.01	29.38	32.17	35.48	40.15	40- 50	33.84	434.8	91.9,91.9
60	21.75	17.66	14.08	13.80	14.07	15.66	18.87	22.99	50- 60	22.27	457.1	96.6,96.6
70	9.805	6.706	3.355	3.661	3.878	5.352	7.959	10.88	60- 70	11.33	468.4	99,99
80	2.108	1.541	1.464	1.344	1.278	1.474	2.651	2.754	70- 80	3.652	472.0	99.8,99.8
90	0.4466	0.1861	0.1265	0.1526	0.1265	0.2084	0.3647	0.7555	80- 90	1.026	473.1	100,100
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		

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:01 August 2023

g Range: 0 - 90DEG  
 Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

LUMINANCE LIMITATION CURVES

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm		
NAME: Coast 5W LED recessed down light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G( DEG)	C0/180	C90/270
85	5422	4612
80	9666	6713
75	16646	8375
70	22825	7811
65	30332	18449
60	34633	22422
55	44522	29298
50	47724	35882
45	59329	43583

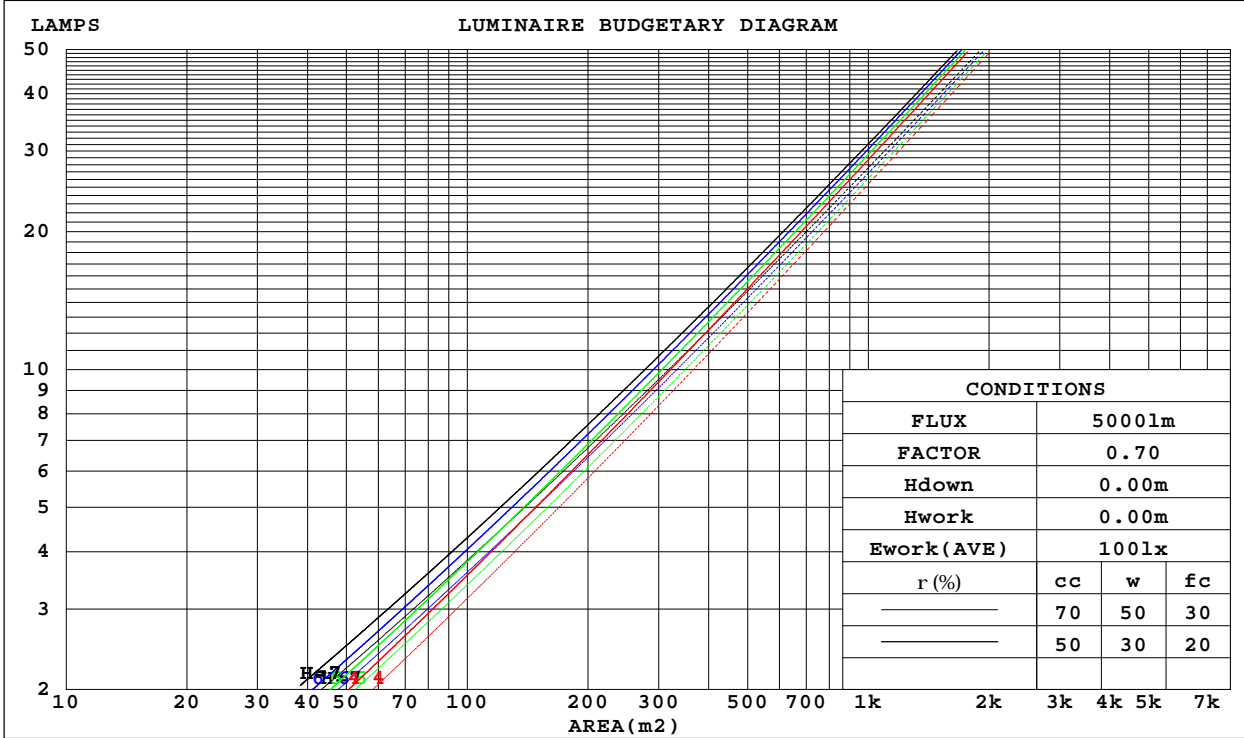
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:01 August 2023

G Range: 0 - 90DEG  
 G Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm		
NAME: Coast 5W LED recessed down light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.03	.98	.95	1.01	.97	.94	.98	.94	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.96	.91	.86	.94	.90	.86	.92	.88	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.80	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.74	.83	.78	.74	.81	.77	.73	.80	.76	.72	.78	.75	.72	.70
6.0	.79	.73	.69	.79	.73	.69	.77	.72	.68	.76	.71	.68	.74	.71	.68	.66
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.65	.72	.67	.64	.71	.67	.64	.62
8.0	.71	.65	.61	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.66	.61	.58	.65	.61	.58	.56
10.0	.65	.59	.55	.64	.59	.55	.63	.59	.55	.63	.58	.55	.62	.58	.55	.54



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:01 August 2023

Range: 0 - 90DEG  
 Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

WEC AND CCEC

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm		
NAME: Coast 5W LED recessed down light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	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	.185	.105	.033	.178	.101	.032	.165	.095	.030	.154	.089	.028	.143	.083	.027	
2.0	.176	.096	.030	.170	.094	.029	.160	.089	.028	.150	.084	.026	.141	.080	.025	
3.0	.166	.088	.026	.161	.086	.026	.152	.082	.025	.144	.079	.024	.136	.075	.023	
4.0	.157	.081	.024	.153	.080	.024	.145	.077	.023	.137	.074	.022	.131	.071	.022	
5.0	.148	.075	.022	.144	.074	.022	.138	.072	.021	.131	.069	.021	.125	.067	.020	
6.0	.140	.070	.020	.137	.069	.020	.131	.067	.020	.125	.065	.019	.120	.063	.019	
7.0	.133	.066	.019	.130	.065	.018	.125	.063	.018	.120	.061	.018	.115	.060	.018	
8.0	.126	.062	.017	.124	.061	.017	.119	.059	.017	.115	.058	.017	.111	.057	.017	
9.0	.120	.058	.016	.118	.058	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016	
10.0	.115	.055	.015	.113	.054	.015	.109	.053	.015	.105	.052	.015	.102	.051	.015	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.107	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.101	.068	.043	.070	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:01 August 2023

g Range: 0 - 90DEG  
 g Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

UGR(Unified Glare Rating) Table

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm										
NAME: Coast 5W LED recessed down light					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: CG LIGHTING					SUR.:			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	25.1	26.0	25.3	26.2	26.4	23.5	24.5	23.8	24.6	24.8
3H	25.5	26.4	25.7	26.6	26.8	23.7	24.6	23.9	24.8	25.0
4H	25.5	26.4	25.8	26.6	26.8	23.7	24.5	24.0	24.7	25.0
6H	25.5	26.3	25.8	26.5	26.8	23.7	24.5	24.0	24.7	25.0
8H	25.5	26.3	25.8	26.5	26.8	23.7	24.4	24.0	24.7	24.9
12H	25.5	26.2	25.8	26.5	26.7	23.6	24.4	24.0	24.6	24.9
4H 2H	25.2	26.0	25.5	26.2	26.5	23.8	24.7	24.1	24.9	25.1
3H	25.6	26.3	25.9	26.6	26.9	24.1	24.8	24.4	25.1	25.3
4H	25.7	26.3	26.0	26.6	26.9	24.1	24.8	24.4	25.1	25.4
6H	25.7	26.3	26.1	26.6	27.0	24.1	24.7	24.5	25.0	25.4
8H	25.7	26.2	26.1	26.6	26.9	24.1	24.7	24.5	25.0	25.4
12H	25.7	26.2	26.1	26.5	26.9	24.1	24.6	24.5	25.0	25.3
8H 4H	25.6	26.1	26.0	26.5	26.8	24.0	24.6	24.4	24.9	25.3
6H	25.6	26.1	26.1	26.5	26.9	24.1	24.6	24.5	25.0	25.4
8H	25.6	26.0	26.1	26.5	26.9	24.1	24.5	24.6	24.9	25.4
12H	25.7	26.0	26.1	26.4	26.9	24.1	24.4	24.6	24.9	25.3
12H 4H	25.5	26.0	26.0	26.4	26.8	24.0	24.5	24.4	24.9	25.3
6H	25.6	26.0	26.0	26.4	26.8	24.1	24.5	24.5	24.9	25.3
8H	25.6	26.0	26.1	26.4	26.9	24.1	24.4	24.6	24.9	25.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.2					+ 0.9 / - 1.3				
1.5H	+ 1.8 / - 1.1					+ 0.4 / - 1.0				
2.0H	+ 1.5 / - 1.9					+ 1.1 / - 1.4				

CIE Pub.117, 473.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.6)

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:01 August 2023

g Range: 0 - 90DEG  
 g Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

UTILIZATION FACTORS TABLE

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm		
NAME: Coast 5W LED recessed down light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

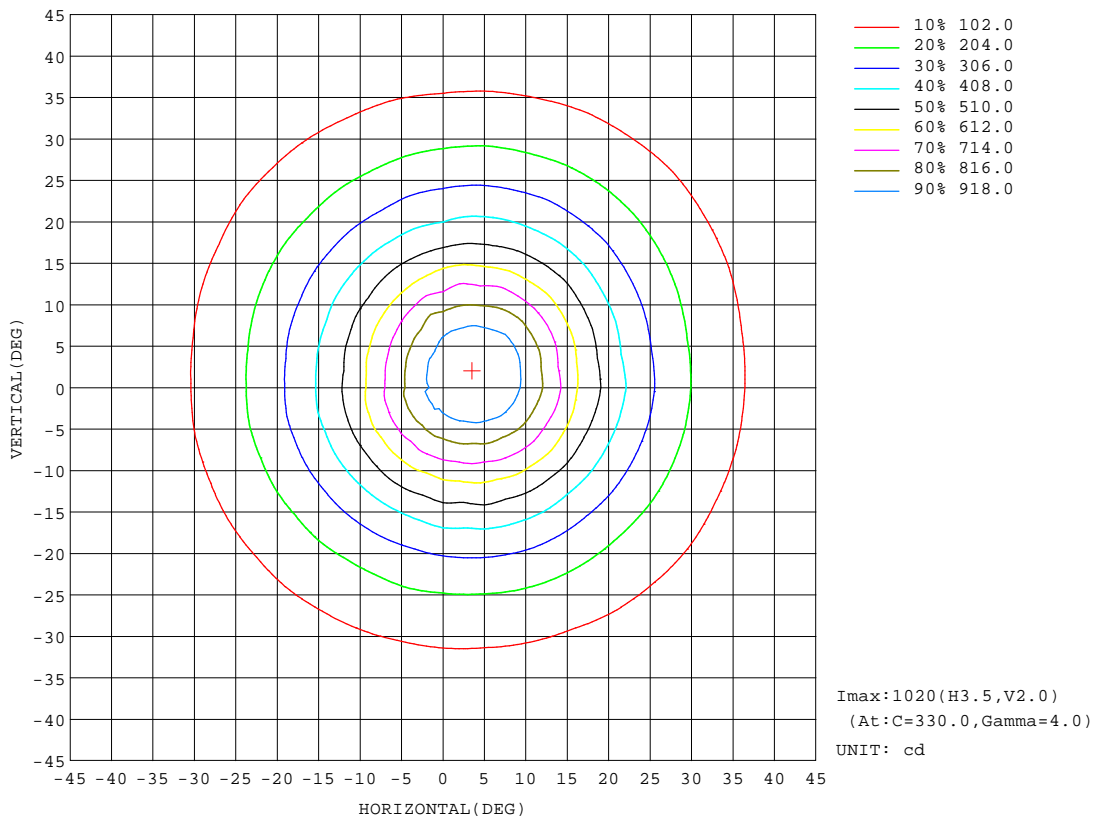
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	82	75	70	81	74	70	81	74	70	66
0.80	90	83	79	89	83	79	88	82	78	74
1.00	95	89	85	94	88	84	93	88	84	79
1.25	100	94	90	99	93	89	97	92	89	84
1.50	103	98	94	102	97	93	99	95	92	87
2.00	106	102	98	105	101	97	102	99	96	90
2.50	109	104	101	107	103	100	104	100	98	92
3.00	110	106	103	108	105	102	105	102	100	93
4.00	113	109	107	111	108	105	107	105	103	95
5.00	114	111	109	112	110	108	108	106	105	97
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:LQL  
 Test Date:01 August 2023

g Range: 0 - 90DEG  
 Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

ISOCANDELA DIAGRAM

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm		
NAME: Coast 5W LED recessed down light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



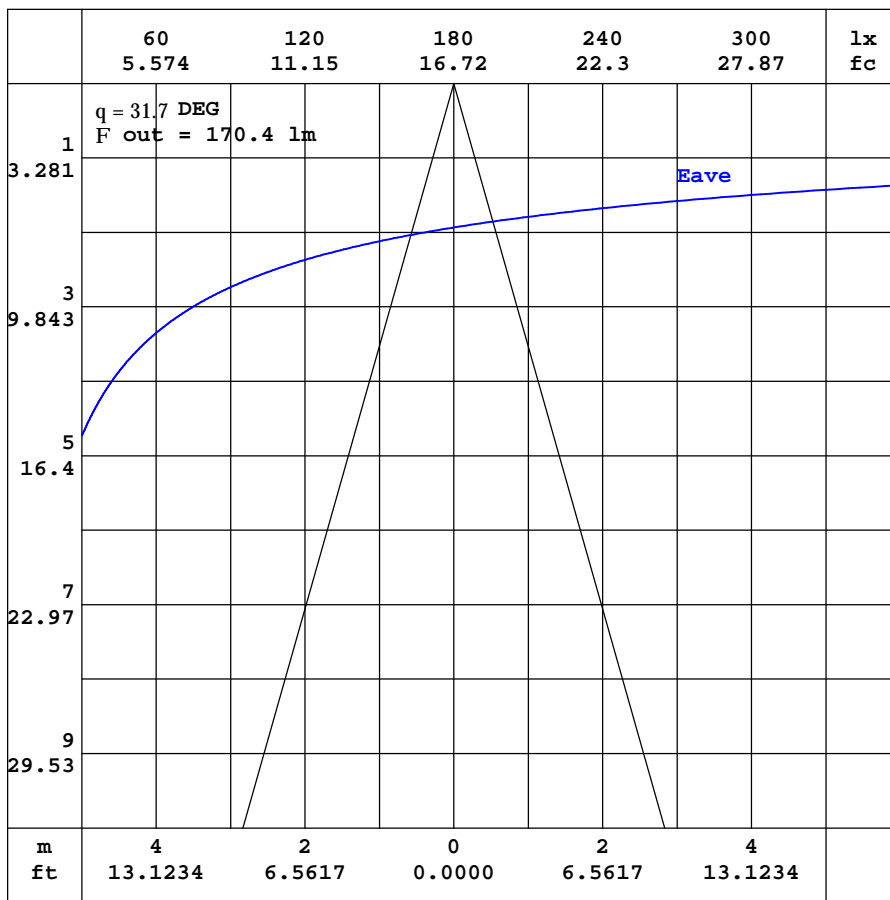
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
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Range: 0 - 90DEG  
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 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI



AAI CURVES

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm		
NAME: Coast 5W LED recessed down light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



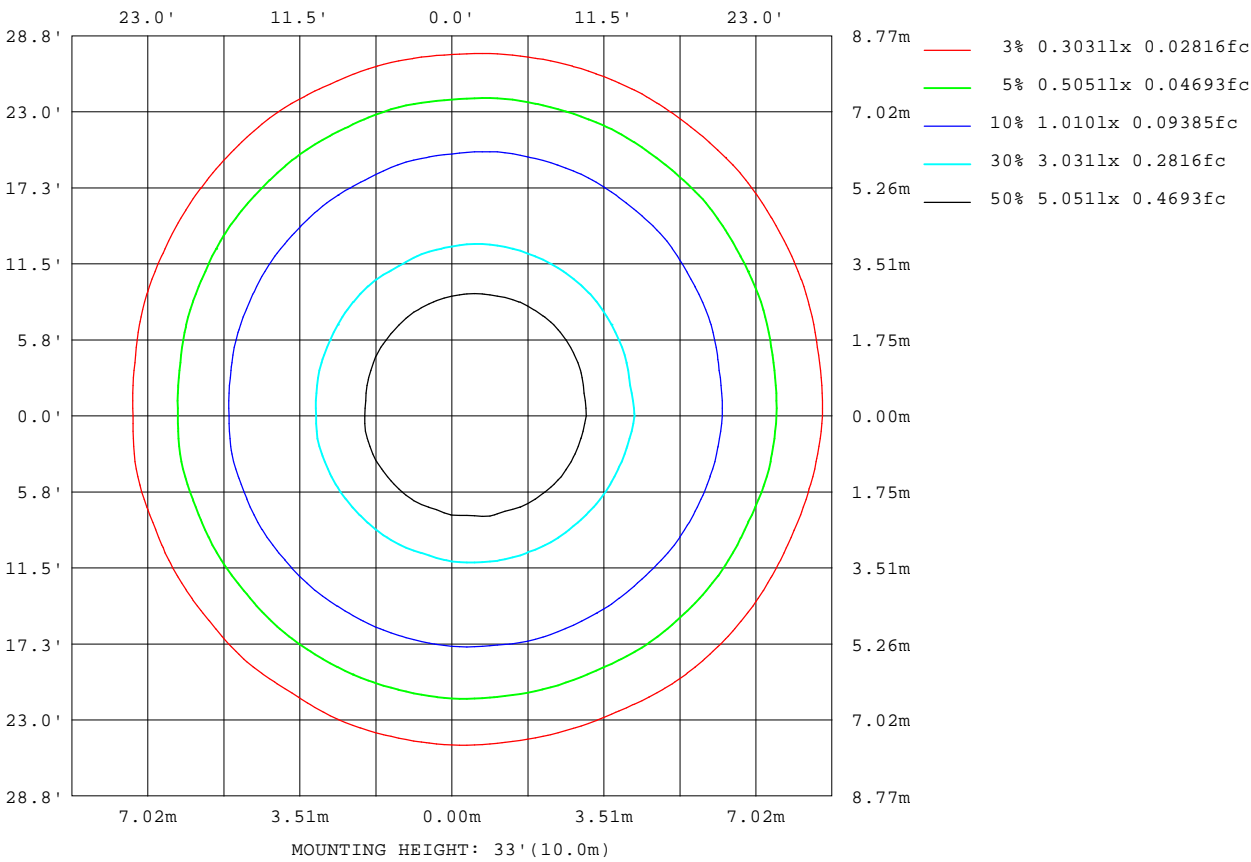
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:01 August 2023

Range: 0 - 90DEG  
 Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

**ISOLUX DIAGRAM**

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm		
NAME: Coast 5W LED recessed down light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
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 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

LED Avg.L Report

Test:U:230.71V I:0.0288A P:6.1035W PF:0.9177 Freq:49.99Hz Lamp Flux:473.073x1 lm		
NAME: Coast 5W LED recessed down light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

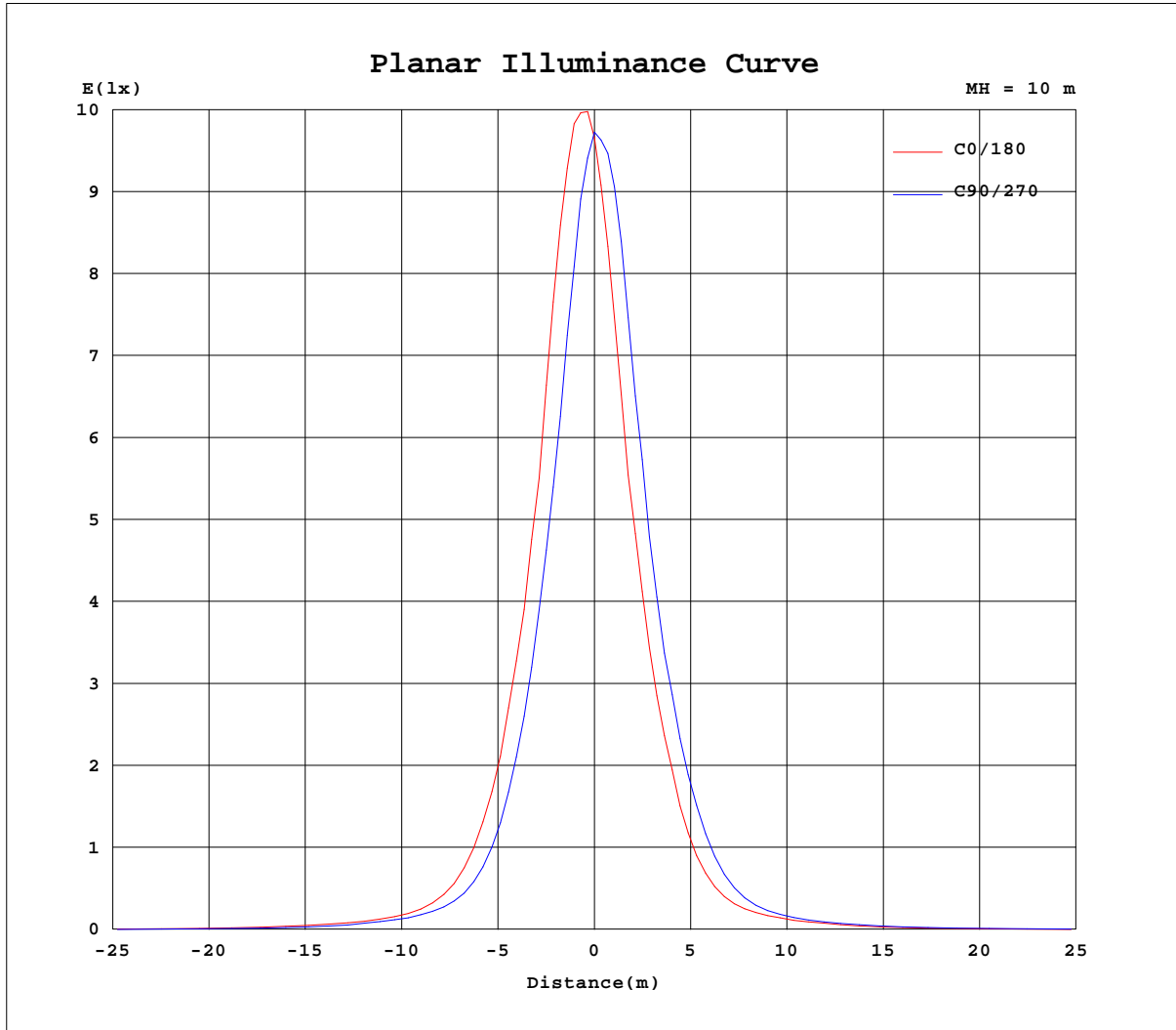
AvgL	cd/m2
L_0~180(65)av	22716
L_0~180(75)av	9799
L_0~180(85)av	3739
L_90~270(65)av	20738
L_90~270(75)av	9275
L_90~270(85)av	8528
L_45(65)av	21668
L_45(75)av	9862
L_45(85)av	8036

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LQL  
 Test Date:01 August 2023

g Range: 0 - 90DEG  
 Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity:65.0%  
 Test Distance:10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: LQL  
 Test Date: 01 August 2023

Page Range: 0 - 90DEG  
 Interval: 2.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.403  
 Humidity: 65.0%  
 Test Distance: 10.365m [K=1.0000]  
 Remarks: ZG1BGC LSC6W500LR-Z UNI



