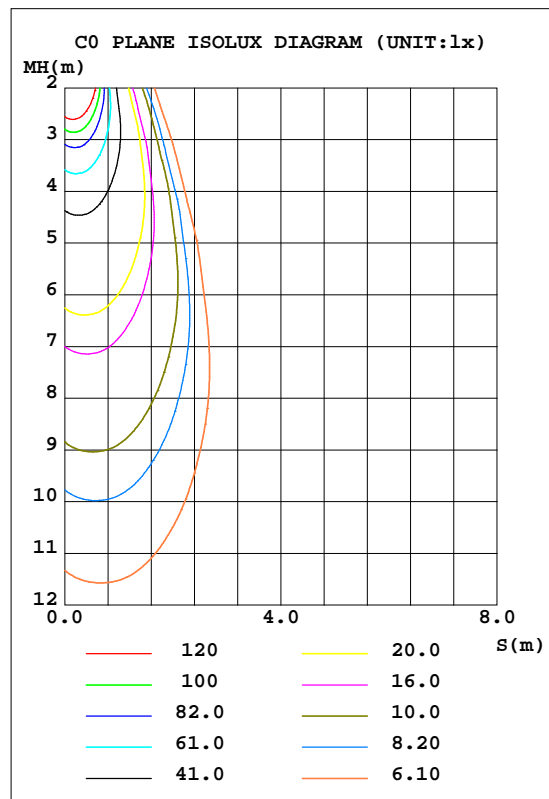
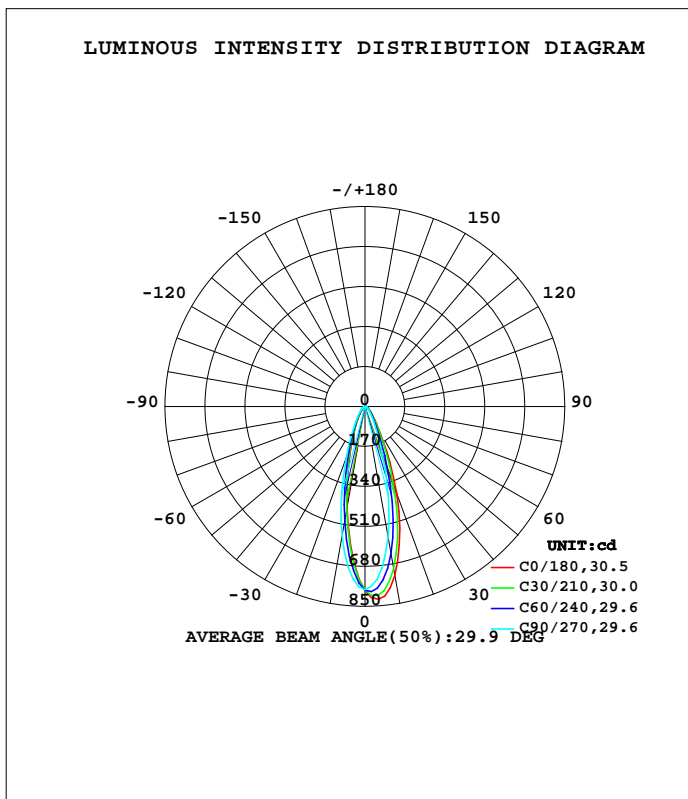


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm		
NAME: Uba outdoor 3.5W LED wall light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 86.76 lm/W
MODEL	1981A-Q5	I _{max} (cd)	821.2	S/MH(C0/180)	0.38	
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.49	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	329.70	h UP, DN(C0-180)	0.0, 50.2	
NOMINAL FLUX(lm)	329.701	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 49.8	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230	h down(%)	100.0	CIBSE SHR MAX	0.55	



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:03 June 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: ZG1BMC MINI-4-350

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

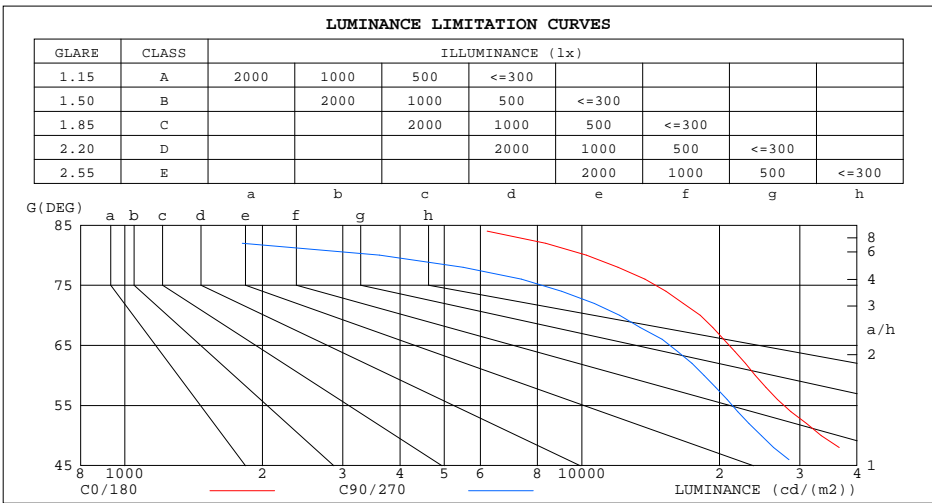
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	730.3	671.7	567.3	476.2	442.0	471.3	561.0	682.6	0- 10	63.98	63.98	19.4,19.4
20	399.1	316.7	214.8	168.2	164.3	189.8	238.0	348.8	10- 20	111.1	175.1	53.1,53.1
30	132.0	108.0	77.22	62.59	60.23	68.50	82.40	114.0	20- 30	70.33	245.4	74.4,74.4
40	52.39	48.08	36.52	29.85	27.52	30.20	36.92	46.22	30- 40	36.16	281.5	85.4,85.4
50	26.98	24.56	19.96	16.98	16.00	16.84	19.83	24.52	40- 50	21.89	303.4	92,92
60	15.05	13.92	11.63	9.686	9.044	9.654	11.58	14.02	50- 60	14.18	317.6	96.3,96.3
70	7.804	6.798	5.196	3.925	3.528	4.119	5.669	7.124	60- 70	8.439	326.0	98.9,98.9
80	2.232	1.605	0.7873	0.3399	0.2426	0.5386	1.235	1.943	70- 80	3.271	329.3	99.9,99.9
90	0.0664	0.0516	0.0516	0.0516	0.0664	0.0590	0.0664	0.0738	80- 90	0.3829	329.7	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:03 June 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: ZG1BMC MINI-4-350

LUMINANCE LIMITATION CURVES

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm		
NAME: Uba outdoor 3.5W LED wall light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	7449	941
80	10236	3610
75	16269	9630
70	18166	12095
65	22418	16806
60	23964	18525
55	29388	22466
50	33414	24721
45	45150	31522

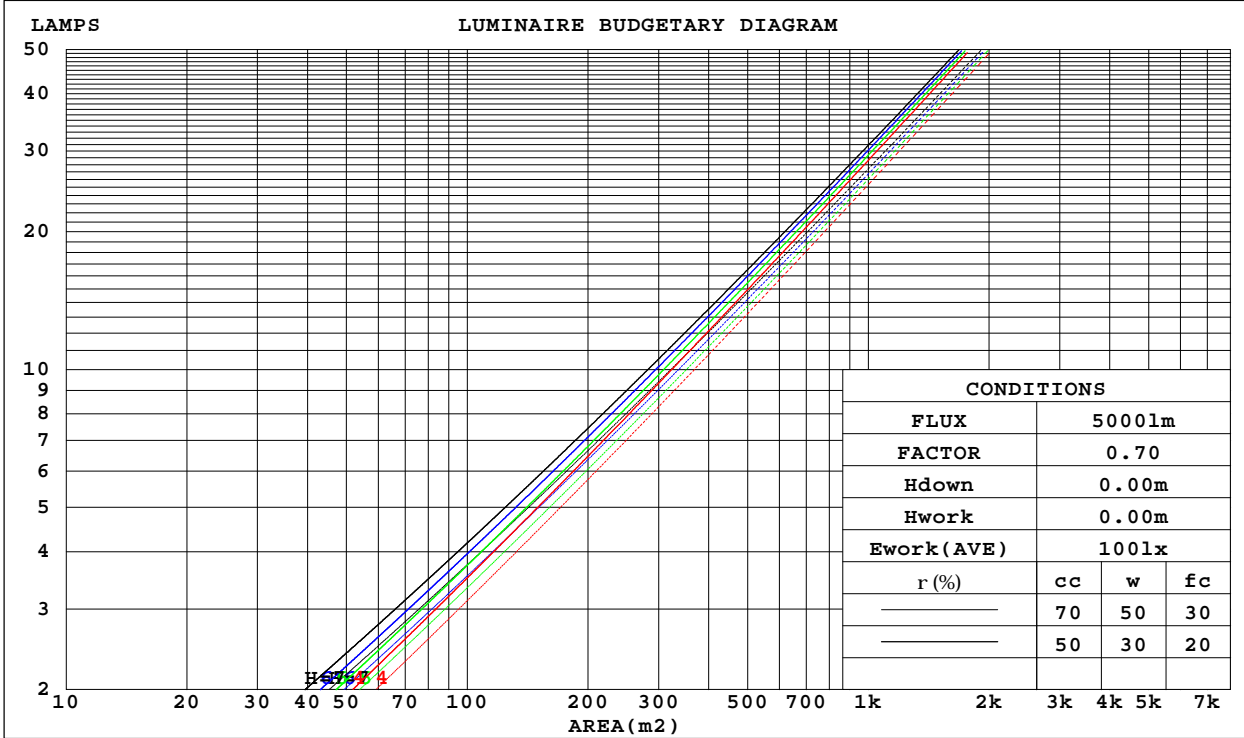
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:03 June 2023

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: ZG1BMC MINI-4-350

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm		
NAME: Uba outdoor 3.5W LED wall light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

r _{cc}	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	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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.98	.94	.98	.95	.92	.95	.93	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.87	.84	.88	.85	.83	.81
4.0	.90	.85	.81	.89	.84	.80	.87	.83	.79	.85	.81	.78	.83	.80	.78	.76
5.0	.85	.80	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
6.0	.81	.75	.71	.80	.74	.71	.78	.74	.70	.77	.73	.70	.76	.72	.69	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.66	.73	.69	.66	.72	.69	.66	.64
8.0	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.66	.63	.69	.65	.63	.61
9.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.67	.63	.60	.58
10.0	.67	.61	.58	.66	.61	.58	.65	.61	.57	.65	.60	.57	.64	.60	.57	.56



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:03 June 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: ZG1BMC MINI-4-350

WEC AND CCEC

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm		
NAME: Uba outdoor 3.5W LED wall 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	.181	.103	.033	.174	.099	.032	.161	.093	.030	.150	.086	.028	.139	.081	.026	
2.0	.172	.094	.029	.166	.092	.028	.156	.087	.027	.146	.082	.026	.137	.077	.024	
3.0	.162	.086	.026	.157	.084	.025	.148	.080	.024	.140	.077	.023	.132	.073	.023	
4.0	.152	.079	.023	.148	.078	.023	.141	.075	.022	.133	.072	.022	.127	.069	.021	
5.0	.144	.073	.021	.140	.072	.021	.133	.069	.020	.127	.067	.020	.121	.065	.019	
6.0	.136	.068	.019	.133	.067	.019	.127	.065	.019	.121	.063	.019	.116	.061	.018	
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017	
8.0	.122	.060	.017	.120	.059	.017	.115	.058	.016	.111	.056	.016	.107	.055	.016	
9.0	.116	.056	.016	.114	.056	.016	.110	.054	.015	.106	.053	.015	.102	.052	.015	
10.0	.111	.053	.015	.109	.053	.015	.105	.052	.015	.102	.051	.014	.099	.050	.014	

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	.171	.157	.145	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.085	.068	.054	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.060	.044	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.088	.055	.032	.061	.039	.023	.036	.023	.014	.012	.007	.004	
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.080	.047	.025	.055	.033	.017	.032	.019	.010	.010	.006	.003	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:03 June 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: ZG1BMC MINI-4-350

UGR(Unified Glare Rating) Table

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm										
NAME: Uba outdoor 3.5W LED wall 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	25.5	26.4	25.7	26.6	26.8	24.1	25.1	24.4	25.2	25.4
3H	26.2	27.1	26.5	27.3	27.5	24.7	25.6	25.0	25.8	26.0
4H	26.4	27.2	26.7	27.5	27.7	24.8	25.6	25.1	25.9	26.1
6H	26.5	27.3	26.8	27.5	27.8	24.8	25.6	25.1	25.8	26.1
8H	26.5	27.3	26.8	27.5	27.8	24.8	25.5	25.1	25.7	26.0
12H	26.5	27.2	26.8	27.5	27.7	24.7	25.4	25.0	25.7	26.0
4H 2H	25.7	26.5	26.0	26.8	27.0	24.5	25.3	24.8	25.6	25.8
3H	26.6	27.3	26.9	27.5	27.8	25.3	26.0	25.6	26.2	26.5
4H	26.9	27.5	27.2	27.8	28.1	25.4	26.1	25.8	26.4	26.7
6H	27.0	27.6	27.4	27.9	28.2	25.4	26.0	25.8	26.3	26.7
8H	27.0	27.5	27.4	27.9	28.3	25.4	25.9	25.8	26.3	26.6
12H	27.0	27.5	27.4	27.8	28.2	25.3	25.8	25.8	26.2	26.6
8H 4H	26.9	27.4	27.3	27.7	28.1	25.5	26.0	25.9	26.4	26.8
6H	27.0	27.5	27.5	27.9	28.3	25.5	26.0	26.0	26.4	26.8
8H	27.1	27.4	27.5	27.9	28.3	25.5	25.9	25.9	26.3	26.7
12H	27.0	27.4	27.5	27.8	28.3	25.4	25.8	25.9	26.2	26.7
12H 4H	26.8	27.3	27.2	27.7	28.1	25.5	26.0	25.9	26.3	26.7
6H	27.0	27.4	27.4	27.8	28.2	25.5	25.9	26.0	26.3	26.8
8H	27.0	27.3	27.5	27.8	28.3	25.5	25.8	25.9	26.2	26.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.9					+ 0.8 / - 1.0				
1.5H	+ 1.0 / - 0.6					+ 0.7 / - 0.8				
2.0H	+ 1.4 / - 0.8					+ 0.9 / - 1.1				

CIE Pub.117, 329.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.9)

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:03 June 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: ZG1BMC MINI-4-350

UTILIZATION FACTORS TABLE

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm		
NAME: Uba outdoor 3.5W LED wall light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

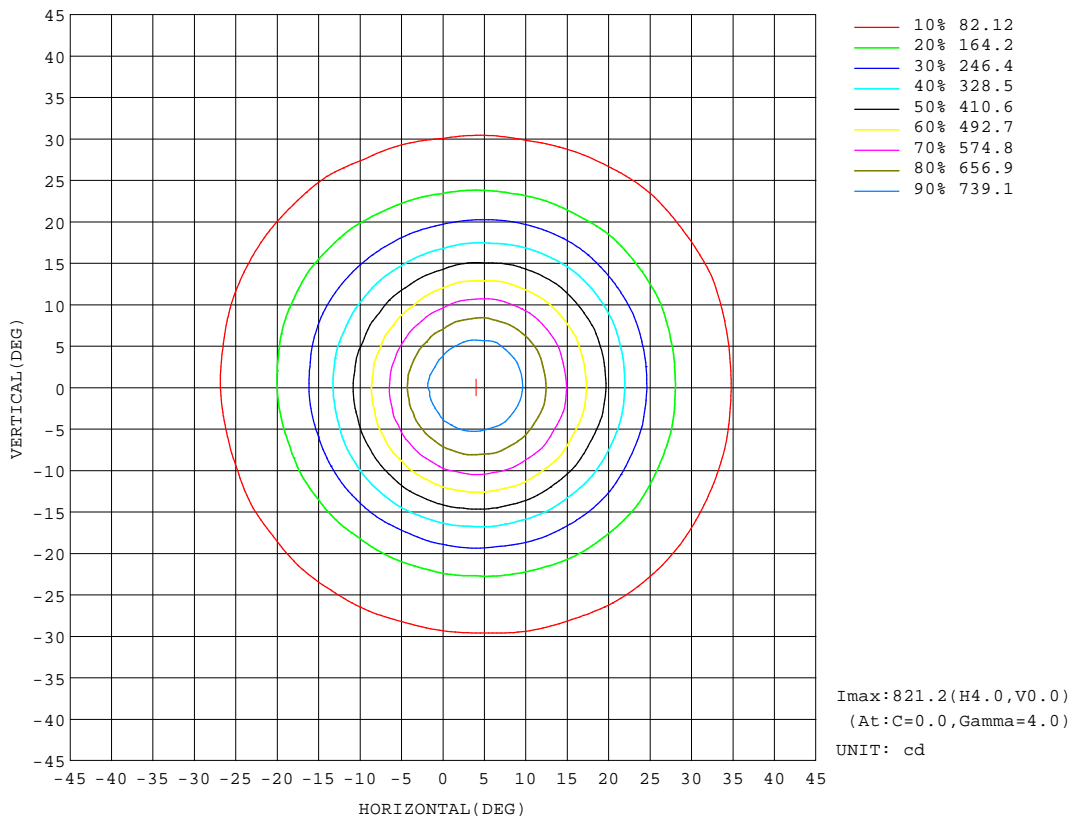
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	82	75	71	82	75	71	81	75	71	67
0.80	90	84	79	90	83	79	88	83	79	75
1.00	96	89	85	95	89	85	93	89	84	80
1.25	100	94	90	99	93	90	97	92	89	84
1.50	103	98	94	102	97	93	100	95	92	87
2.00	107	102	98	105	101	97	102	99	96	90
2.50	109	104	101	107	103	100	104	101	98	92
3.00	110	107	103	109	105	102	105	102	100	93
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	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:03 June 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: ZG1BMC MINI-4-350

ISOCANDELA DIAGRAM

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm		
NAME: Uba outdoor 3.5W LED wall light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

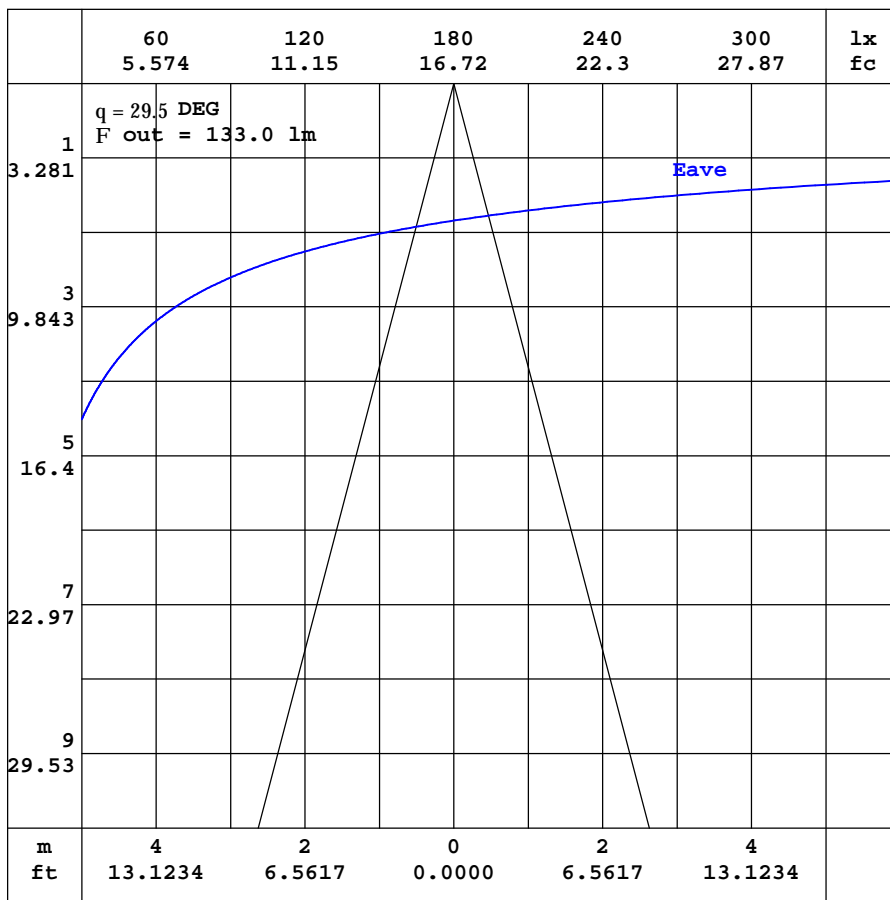


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LQL
 Test Date: 03 June 2023

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: ZG1BMC MINI-4-350

AAI CURVES

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm		
NAME: Uba outdoor 3.5W LED wall light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:



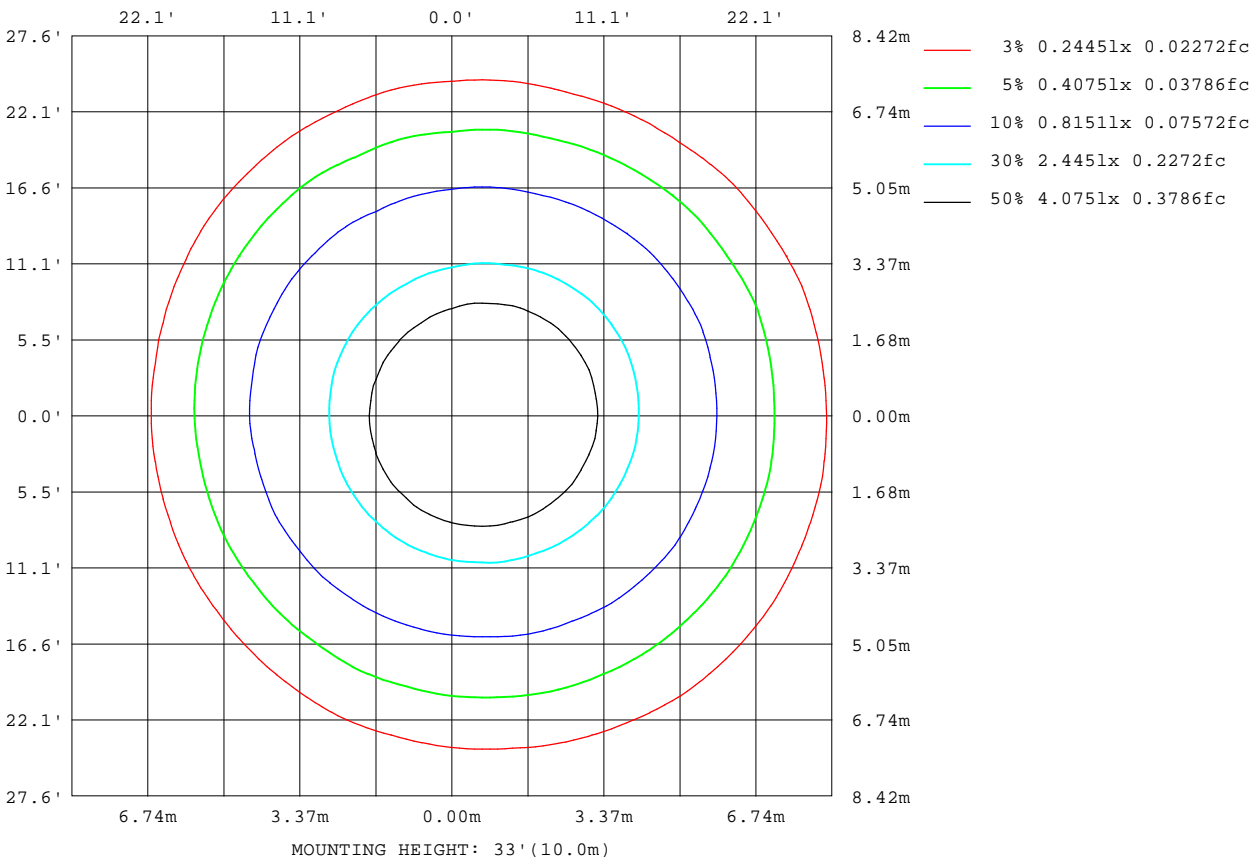
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:03 June 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: ZG1BMC MINI-4-350

ISOLUX DIAGRAM

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm		
NAME: Uba outdoor 3.5W LED wall 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
 Operators: LQL
 Test Date: 03 June 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: ZG1BMC MINI-4-350

LED Avg.L Report

Test:U:230.72V I:0.0293A P:3.8003W PF:0.5606 Freq:49.99Hz Lamp Flux:329.70lx1 lm		
NAME: Uba outdoor 3.5W LED wall light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: CG LIGHTING	SUR.:	Shielding Angle:

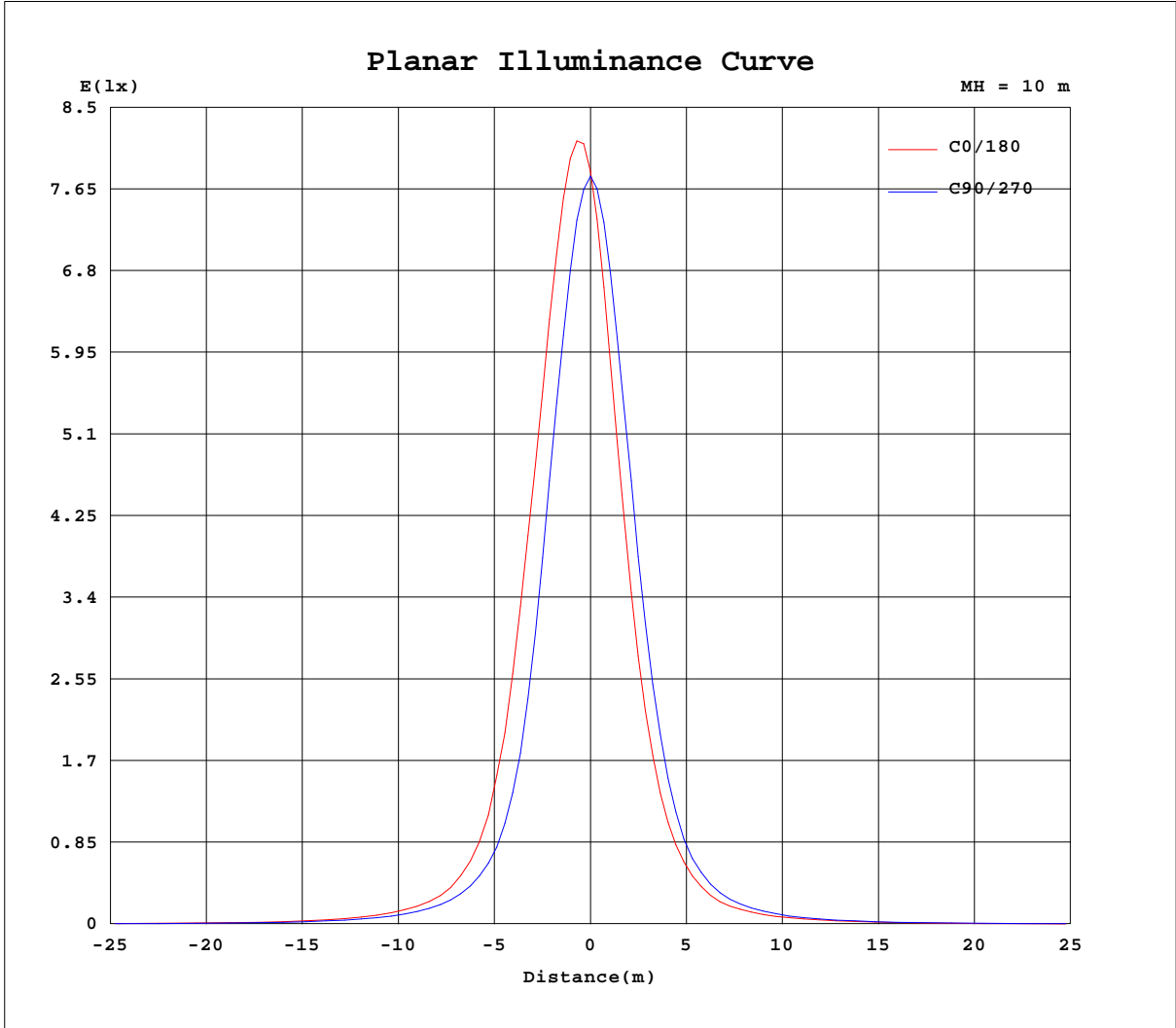
AvgL	cd/m2
L_0~180(65)av	16290
L_0~180(75)av	9591
L_0~180(85)av	2865
L_90~270(65)av	15780
L_90~270(75)av	8977
L_90~270(85)av	1218
L_45(65)av	16010
L_45(75)av	9180
L_45(85)av	1943

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LQL
 Test Date:03 June 2023

g Range: 0 - 90DEG
 Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.403
 Humidity:65.0%
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 Remarks: ZG1BMC MINI-4-350

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LQL
Test Date: 03 June 2023

Page Range: 0 - 90DEG
Page Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.403
Humidity: 65.0%
Test Distance: 10.365m [K=1.0000]
Remarks: ZG1BMC MINI-4-350

