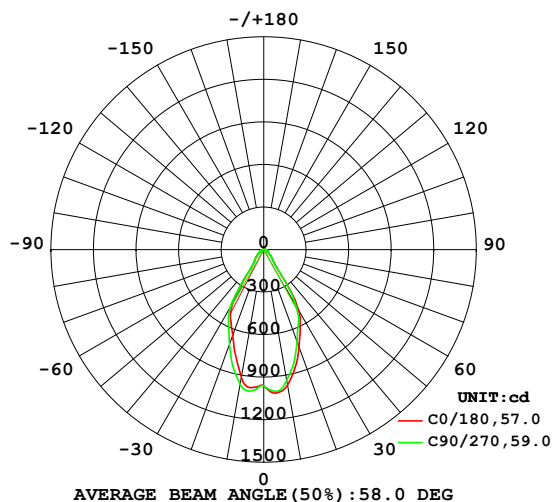


**LUMINAIRE PHOTOMETRIC TEST REPORT**

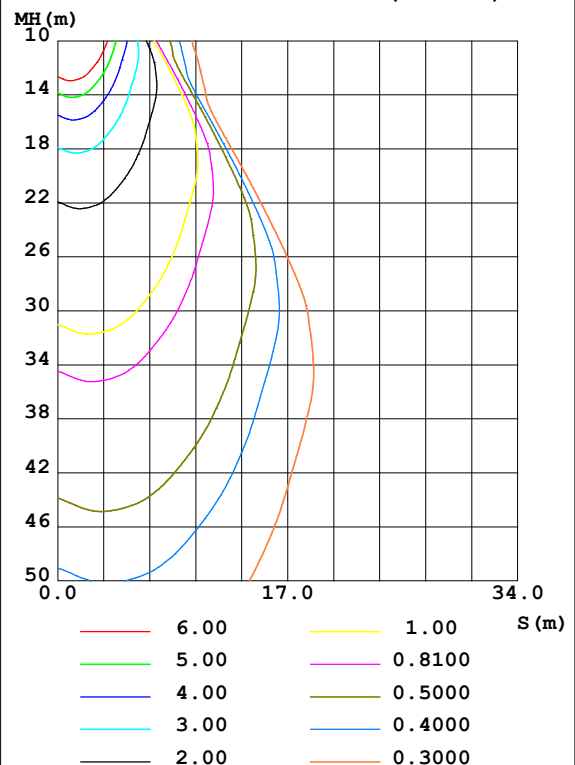
Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG		
MFR.: DARKON		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.93 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	1016	S/MH(C0/180)	0.81
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	884.52	$\eta$ UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	884.518	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	$\eta$ down(%)	100.0	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:23 February 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

### ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	971.3	954.4	936.7	926.1	913.8	928.7	963.8	974.7	0- 10	93.80	93.80	10.6,10.6
20	732.0	700.7	690.2	669.4	643.7	653.5	707.3	748.3	10- 20	229.4	323.2	36.5,36.5
30	489.1	465.8	453.4	439.3	439.6	449.8	474.9	502.3	20- 30	266.9	590.2	66.7,66.7
40	107.7	107.4	107.6	103.5	101.6	101.7	104.0	109.2	30- 40	143.5	733.7	82.9,82.9
50	59.57	60.39	59.79	58.60	57.65	56.86	57.23	58.87	40- 50	62.40	796.1	90,90
60	28.91	29.40	29.67	29.86	29.47	28.64	28.22	28.37	50- 60	38.03	834.1	94.3,94.3
70	22.49	23.02	23.37	23.43	22.91	22.13	21.84	22.02	60- 70	25.91	860.0	97.2,97.2
80	11.96	12.51	12.64	12.40	11.87	11.27	11.15	11.47	70- 80	18.33	878.4	99.3,99.3
90	0.1201	0.0910	0.0873	0.1348	0.1529	0.0910	0.0983	0.0903	80- 90	6.141	884.5	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		

Conical surface Flux(90deg): 768.09 lm

%lum = 86.8%

%lamp = 86.8%

Conical surface Flux(120deg): 834.14 lm

%lum = 94.3%

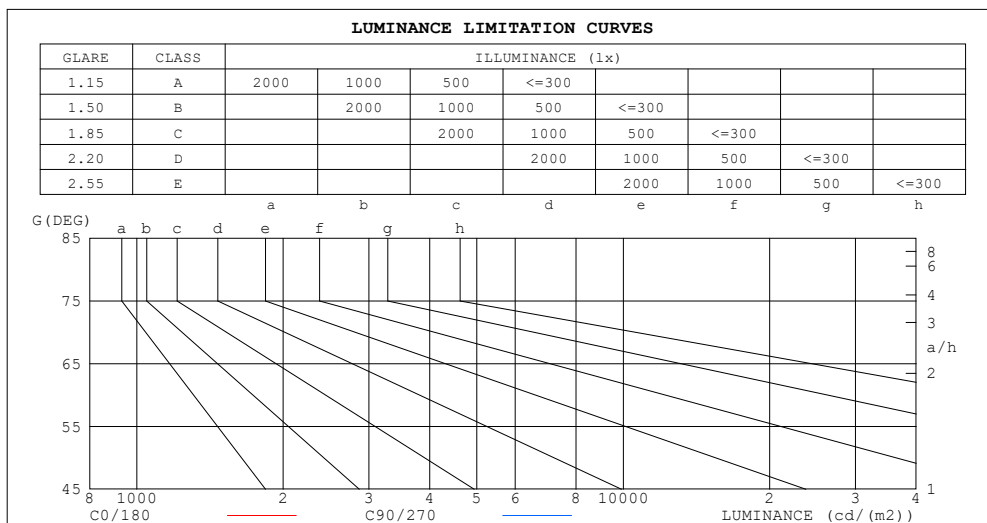
%lamp = 94.3%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:23 February 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG		
MFR.: DARKON		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	52903	54293
80	52992	56008
75	51676	54024
70	50597	52576
65	47252	49109
60	44479	45665
55	58038	58425
50	71298	71585
45	89389	90204

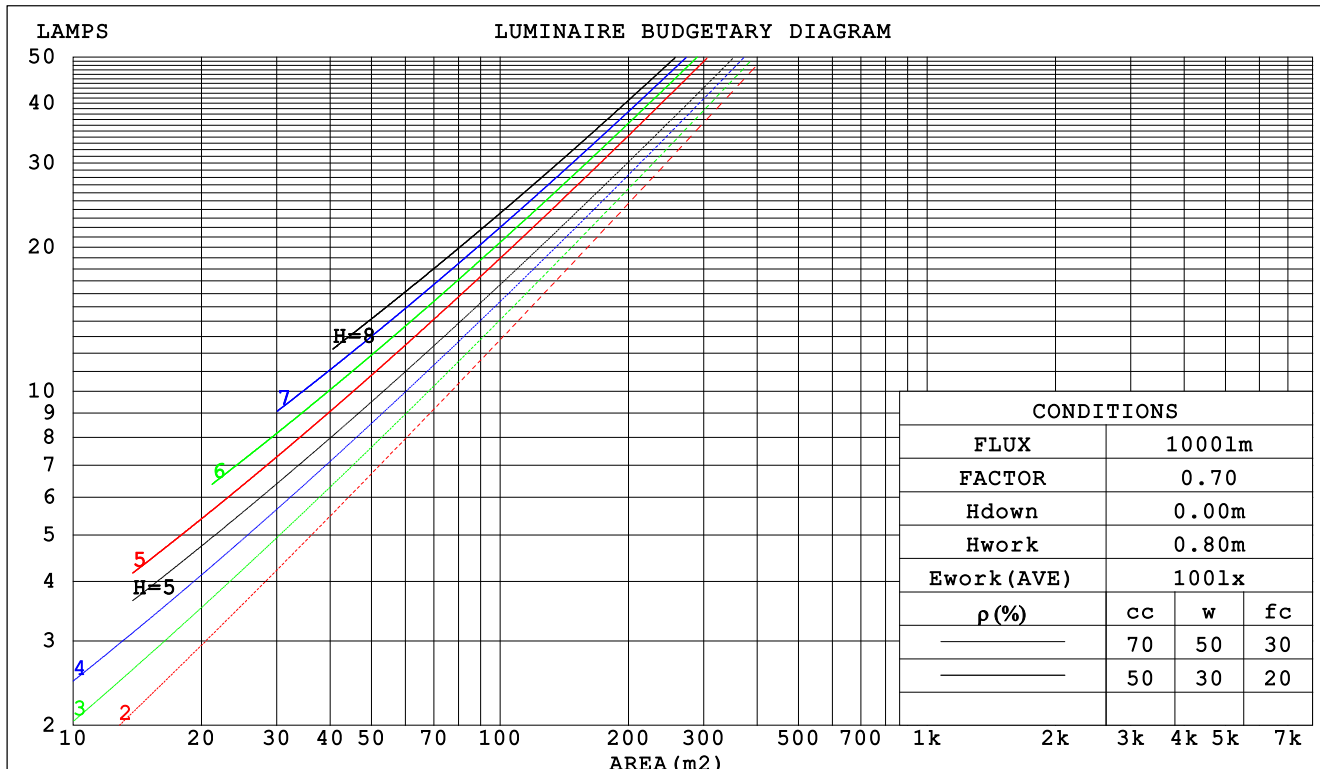
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:23 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG		
MFR.: DARKON		

$\rho_{cc}$	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	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	.00
1.0	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.98	.96	.96	.94	.93	.91
2.0	1.01	.96	.92	.99	.95	.91	.95	.92	.89	.92	.90	.87	.90	.87	.85	.83
3.0	.93	.87	.83	.92	.86	.82	.89	.84	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.86	.80	.76	.85	.79	.75	.83	.78	.74	.81	.77	.73	.79	.75	.72	.71
5.0	.80	.74	.69	.79	.74	.69	.78	.72	.68	.76	.71	.68	.74	.70	.67	.66
6.0	.75	.69	.64	.74	.68	.64	.73	.68	.64	.71	.67	.63	.70	.66	.63	.61
7.0	.71	.64	.60	.70	.64	.60	.69	.63	.59	.67	.63	.59	.66	.62	.59	.57
8.0	.67	.60	.56	.66	.60	.56	.65	.59	.55	.64	.59	.55	.63	.58	.55	.53
9.0	.63	.57	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.50
10.0	.59	.53	.49	.59	.53	.49	.58	.53	.49	.57	.52	.49	.57	.52	.49	.47



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JEFF

Test Date:23 February 2023

$\gamma$  Range: 0 - 90DEG

$\gamma$  Interval: 1.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295

Humidity:65.0%

Test Distance:7.995m [K=1.0000]

Remarks:

**WEC AND CCEC**

Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG		
MFR.: DARKON		

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	.207	.118	.037	.200	.114	.036	.187	.107	.034	.175	.101	.032	.165	.095	.031	
2.0	.195	.107	.033	.189	.104	.032	.178	.099	.031	.168	.094	.030	.159	.090	.028	
3.0	.183	.097	.029	.178	.095	.029	.169	.091	.028	.160	.088	.027	.152	.084	.026	
4.0	.172	.089	.026	.168	.088	.026	.160	.085	.025	.152	.082	.025	.145	.079	.024	
5.0	.162	.083	.024	.158	.081	.024	.151	.079	.023	.145	.076	.023	.138	.074	.022	
6.0	.153	.077	.022	.150	.076	.022	.144	.074	.021	.138	.072	.021	.132	.070	.021	
7.0	.145	.072	.020	.142	.071	.020	.137	.069	.020	.131	.067	.020	.127	.066	.019	
8.0	.138	.067	.019	.135	.067	.019	.130	.065	.019	.126	.064	.018	.121	.062	.018	
9.0	.131	.063	.018	.129	.063	.018	.124	.062	.017	.120	.060	.017	.116	.059	.017	
10.0	.125	.060	.017	.123	.059	.017	.119	.058	.016	.115	.057	.016	.112	.056	.016	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.087	.127	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.138	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.129	.088	.057	.111	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.122	.079	.048	.105	.068	.042	.072	.048	.029	.042	.028	.018	.014	.009	.006	
7.0	.115	.071	.041	.099	.062	.035	.068	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.109	.065	.035	.094	.056	.030	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.104	.060	.030	.089	.052	.026	.062	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.056	.027	.085	.048	.023	.059	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:23 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm										
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG										
MFR.: DARKON										
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	24.5	25.5	24.7	25.7	25.9	24.4	25.5	24.7	25.6	25.8
3H	25.3	26.3	25.6	26.5	26.7	25.3	26.3	25.6	26.5	26.7
4H	25.8	26.7	26.1	26.9	27.2	25.8	26.8	26.1	27.0	27.2
6H	26.3	27.1	26.6	27.4	27.6	26.3	27.2	26.7	27.5	27.7
8H	26.5	27.3	26.8	27.5	27.8	26.6	27.4	26.9	27.6	27.9
12H	26.6	27.4	26.9	27.7	28.0	26.7	27.5	27.0	27.8	28.1
4H 2H	24.7	25.6	25.0	25.8	26.0	24.6	25.5	24.9	25.8	26.0
3H	25.8	26.6	26.1	26.9	27.1	25.8	26.6	26.1	26.9	27.2
4H	26.5	27.2	26.8	27.5	27.8	26.5	27.2	26.9	27.5	27.9
6H	27.1	27.8	27.5	28.1	28.4	27.2	27.8	27.6	28.2	28.5
8H	27.4	28.0	27.8	28.3	28.7	27.5	28.1	27.9	28.4	28.8
12H	27.6	28.1	28.0	28.5	28.9	27.7	28.3	28.1	28.6	29.0
8H 4H	26.7	27.3	27.1	27.7	28.1	26.8	27.4	27.2	27.7	28.1
6H	27.6	28.1	28.0	28.4	28.9	27.7	28.1	28.1	28.5	29.0
8H	27.9	28.4	28.4	28.8	29.2	28.1	28.5	28.5	28.9	29.3
12H	28.3	28.6	28.7	29.1	29.5	28.4	28.7	28.8	29.2	29.7
12H 4H	26.8	27.3	27.2	27.7	28.1	26.8	27.4	27.2	27.7	28.1
6H	27.6	28.1	28.1	28.5	28.9	27.7	28.2	28.2	28.6	29.0
8H	28.1	28.5	28.5	28.9	29.4	28.2	28.6	28.7	29.0	29.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.7 / - 0.6					+ 0.7 / - 0.5				

CIE Pub.117 Corrected 884.5 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.4)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:23 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG		
MFR.: DARKON		

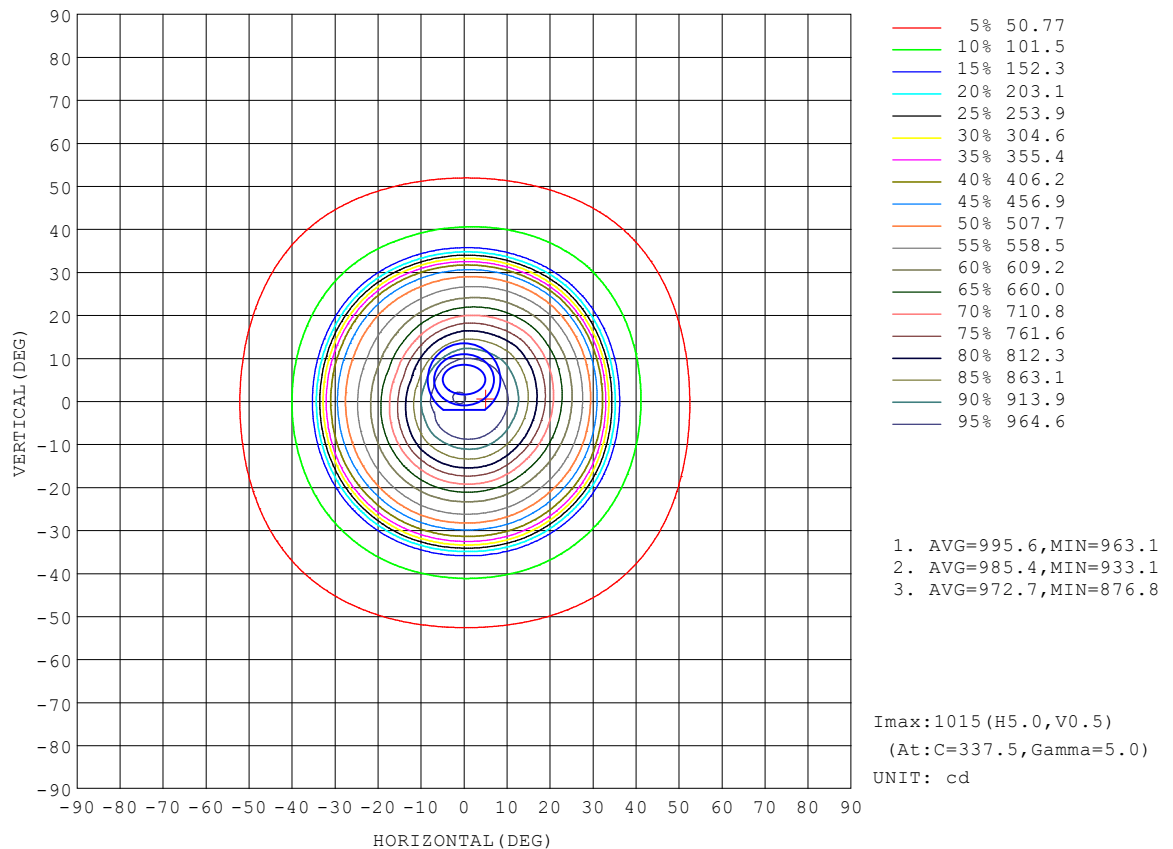
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	74	69	80	73	69	80	73	69	65
0.80	89	82	77	88	82	77	87	81	77	73
1.00	94	87	83	93	87	83	92	87	82	78
1.25	99	92	88	98	92	88	96	91	87	82
1.50	102	96	92	101	95	92	98	94	90	85
2.00	106	100	97	104	99	96	101	97	94	88
2.50	108	103	99	106	102	98	103	99	97	90
3.00	110	105	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	104	106	104	102	94
5.00	114	111	108	111	109	107	107	105	104	96
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 23 February 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.995m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG		
MFR.: DARKON		



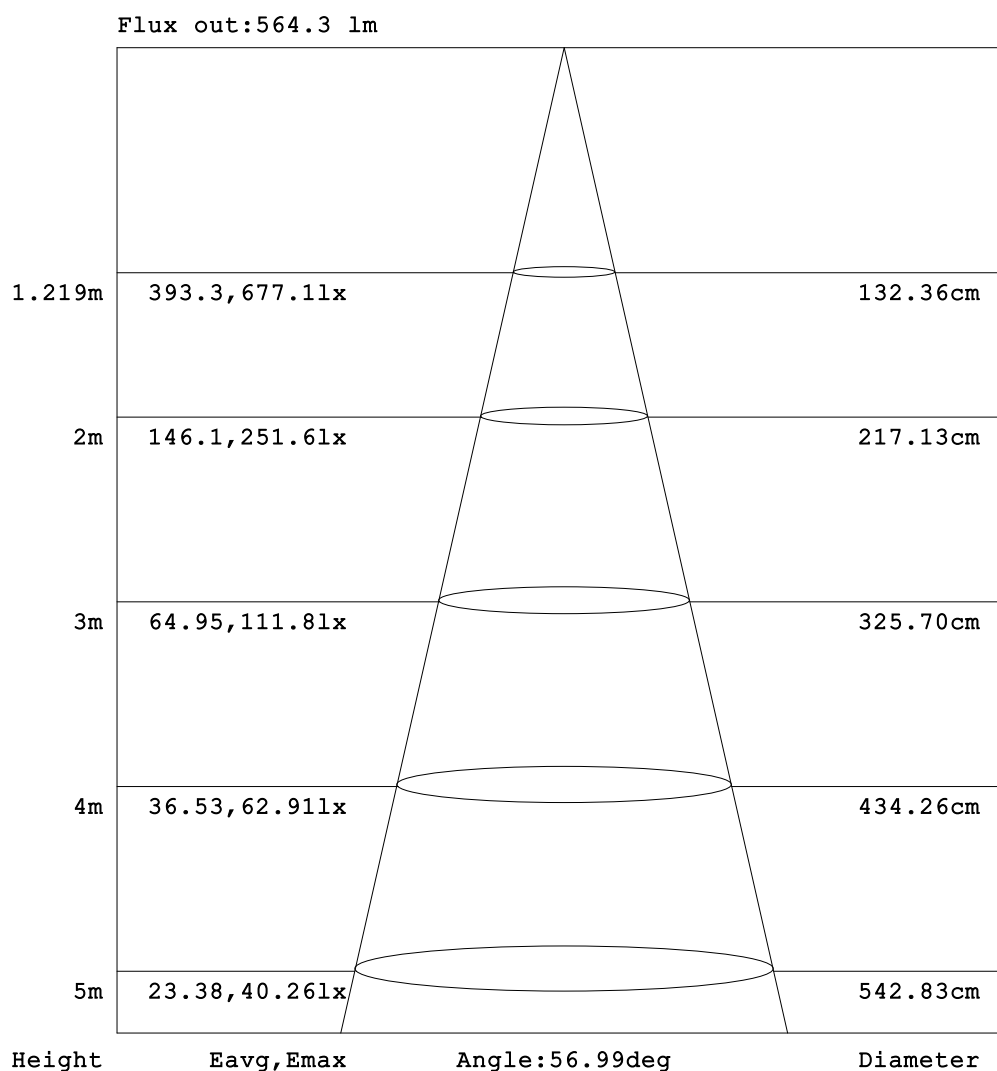
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 23 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.995m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG		
MFR.: DARKON		



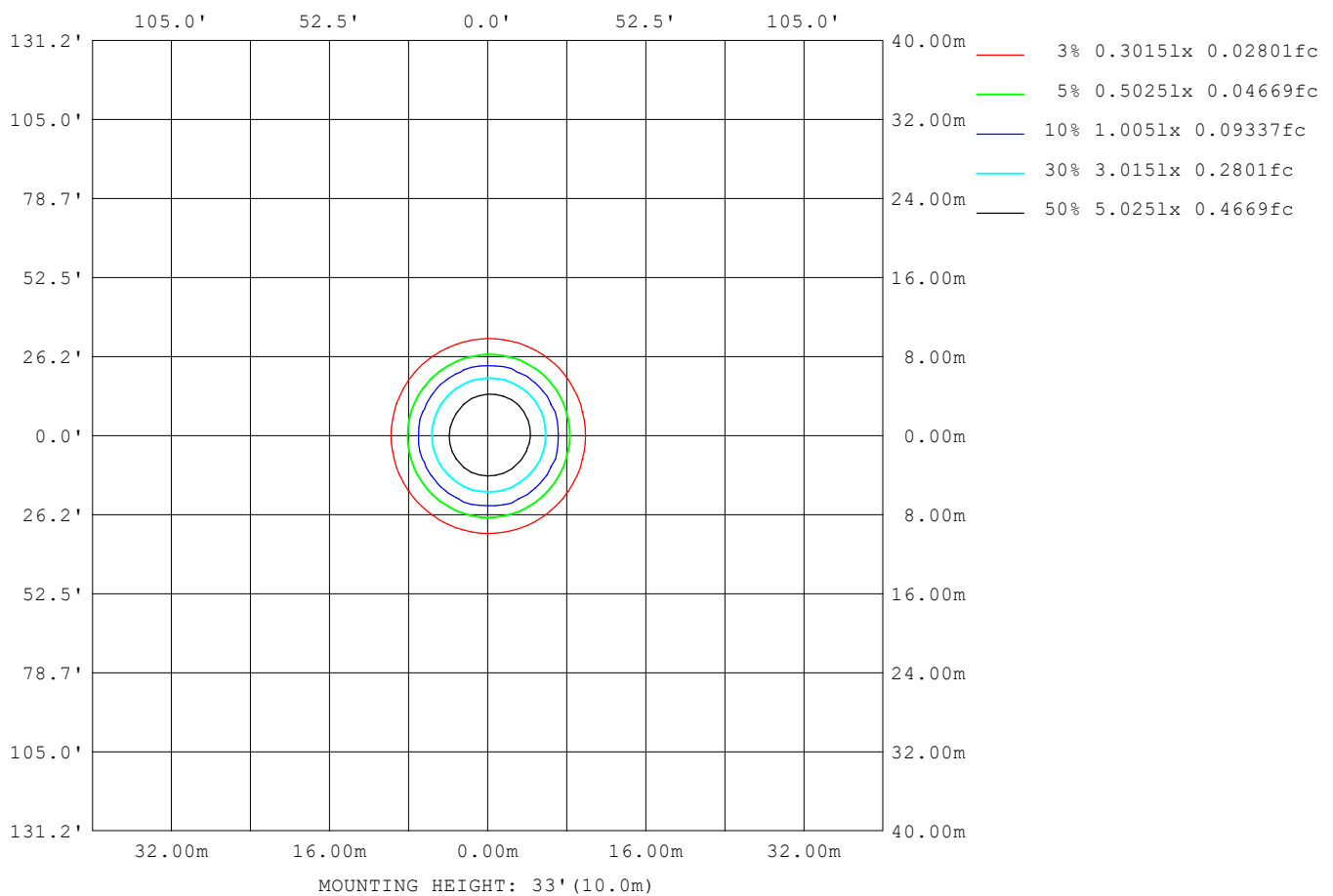
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 23 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.995m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG		
MFR.: DARKON		



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:23 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:240.0V I:0.0489A P:10.41W PF:0.8877 Lamp Flux:884.518x1 lm		
NAME: DEEP DOWN MINI_WHT_SLE G7 09mm_250mA_4000K CRI90_32 DEG		
MFR.: DARKON		

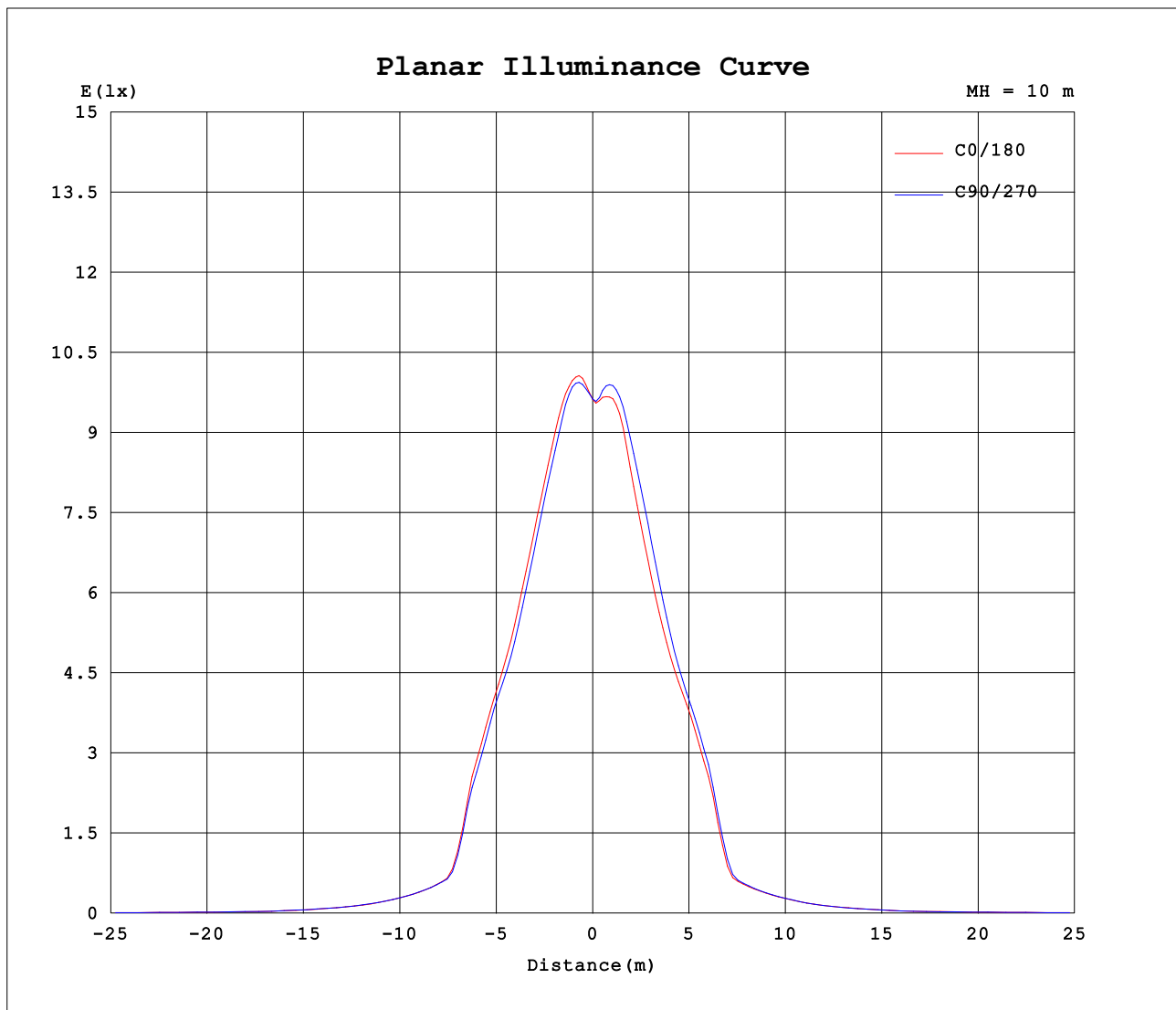
AvgL	cd/m2
L_0~180 (65) av	48083
L_0~180 (75) av	51783
L_0~180 (85) av	50419
L_90~270 (65) av	47800
L_90~270 (75) av	51624
L_90~270 (85) av	50302
L_45 (65) av	47933
L_45 (75) av	51711
L_45 (85) av	50306

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:23 February 2023

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.995m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 23 February 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.995m [K=1.0000]  
Remarks:

