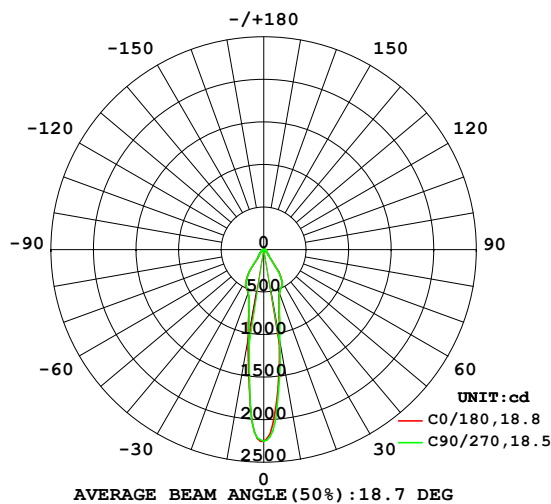


## LUMINAIRE PHOTOMETRIC TEST REPORT

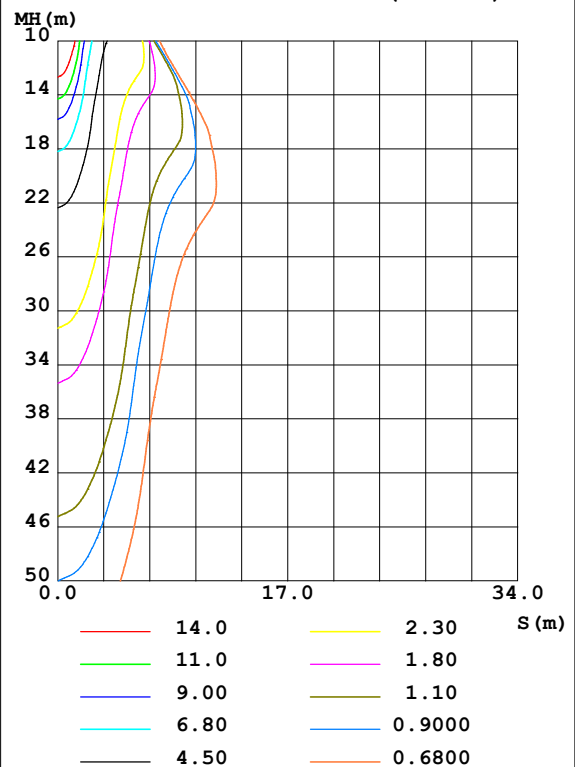
Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEE:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.32 lm/W			
MODEL	SLE G7 09mm 1200lm	Imax(cd)	2257	S/MH(C0/180)	0.32
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.30
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	822.95	$\eta$ UP,DN(C0-180)	0.0,50.7
NOMINAL FLUX(lm)	822.95	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,49.3
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.00

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:15 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [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	1057	1135	1098	1039	1064	1021	1001	1012	0- 10	146.4	146.4	17.8,17.8
20	544.3	545.7	547.2	545.3	539.7	539.4	537.4	538.3	10- 20	199.5	345.9	42,42
30	431.6	444.5	429.6	410.2	408.4	404.5	403.8	413.8	20- 30	224.0	569.9	69.2,69.2
40	92.59	92.42	90.76	89.11	94.09	92.11	89.19	89.32	30- 40	139.2	709.1	86.2,86.2
50	42.25	42.03	41.26	40.28	39.89	40.28	41.08	41.85	40- 50	51.59	760.7	92.4,92.4
60	22.74	22.30	21.98	21.96	22.34	22.75	23.06	23.05	50- 60	24.09	784.8	95.4,95.4
70	17.48	17.13	16.80	16.74	17.05	17.39	17.69	17.72	60- 70	20.11	804.9	97.8,97.8
80	8.896	8.618	8.402	8.377	8.592	8.856	9.059	9.070	70- 80	13.79	818.6	99.5,99.5
90	0.0367	0.0330	0.0330	0.0329	0.0330	0.0330	0.0366	0.0366	80- 90	4.301	823.0	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): 738.61 lm

%lum = 89.8%

%lamp = 89.8%

Conical surface Flux(120deg): 784.75 lm

%lum = 95.4%

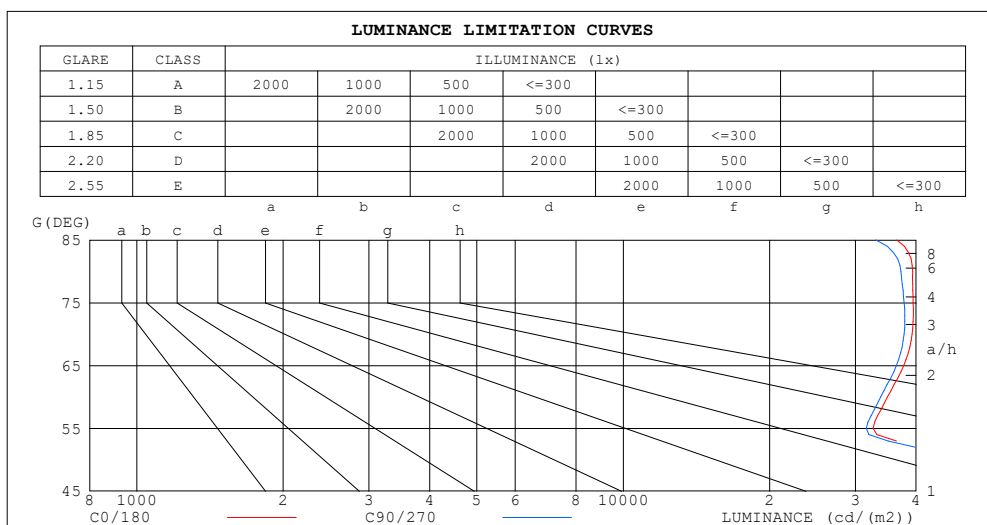
%lamp = 95.4%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JEFF  
 Test Date:15 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:7.890m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	36515	33085
80	39345	37238
75	39453	37809
70	39250	37806
65	37742	36430
60	34935	33827
55	32639	31593
50	50481	49395
45	74896	75006

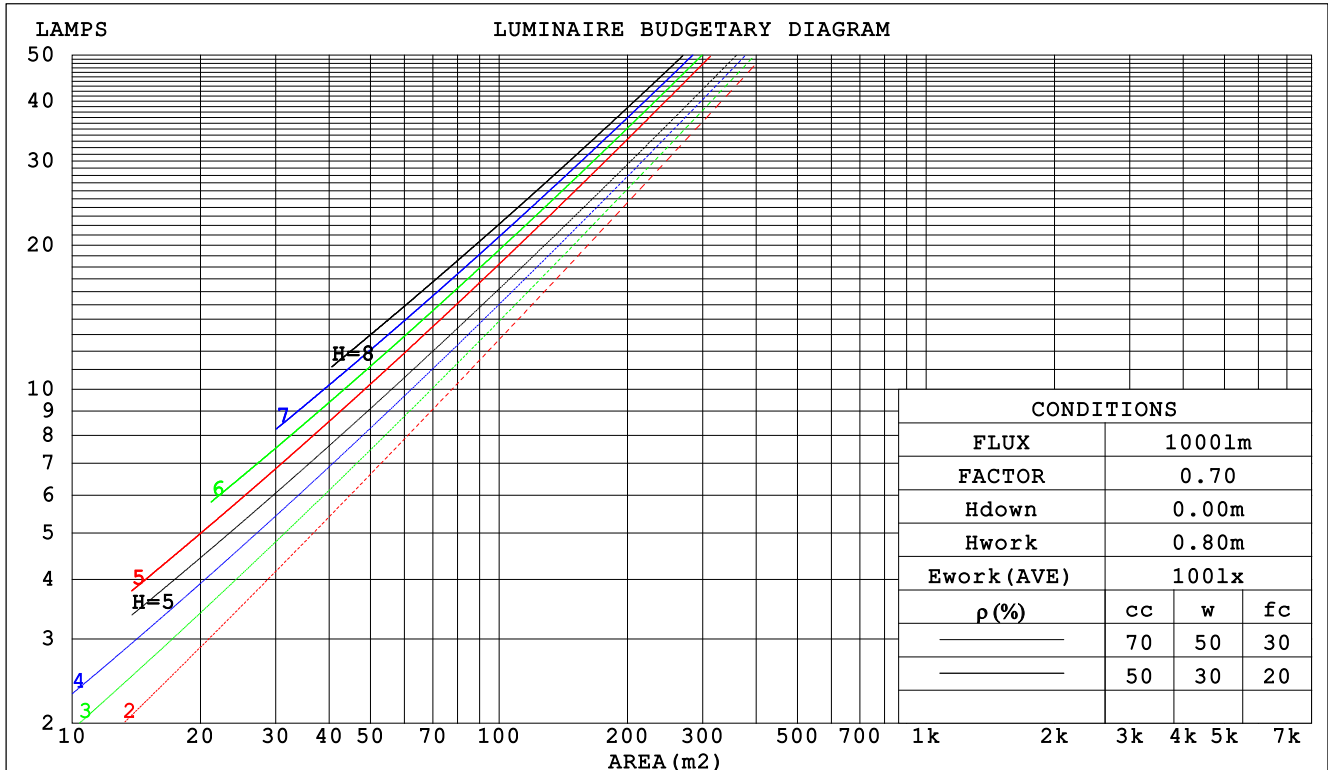
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:15 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEE:LED		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	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	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	.00	.00	.98	.97	.97	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.90	.85	.93	.89	.85	.91	.87	.83	.88	.85	.82	.86	.83	.81	.79
4.0	.89	.83	.79	.87	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74
5.0	.83	.77	.73	.82	.77	.72	.80	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.68	.78	.72	.68	.76	.71	.67	.75	.70	.67	.73	.69	.66	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.67	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.56	.63	.59	.56	.55
10.0	.63	.58	.54	.63	.57	.54	.62	.57	.54	.61	.57	.54	.61	.56	.53	.52



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:15 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

**WEC AND CCEC**

Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEBE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	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	.193	.110	.035	.187	.106	.034	.174	.100	.032	.162	.094	.030	.151	.088	.028	
2.0	.182	.100	.031	.177	.097	.030	.166	.092	.029	.156	.087	.027	.147	.083	.026	
3.0	.171	.091	.027	.166	.089	.027	.157	.085	.026	.149	.081	.025	.141	.078	.024	
4.0	.161	.084	.025	.157	.082	.024	.149	.079	.024	.141	.076	.023	.135	.073	.022	
5.0	.152	.077	.022	.148	.076	.022	.141	.073	.022	.135	.071	.021	.129	.069	.021	
6.0	.143	.072	.021	.140	.071	.020	.134	.069	.020	.128	.067	.020	.123	.065	.019	
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018	
8.0	.129	.063	.018	.127	.062	.018	.122	.061	.017	.117	.059	.017	.113	.058	.017	
9.0	.123	.059	.017	.121	.059	.017	.116	.058	.016	.112	.056	.016	.109	.055	.016	
10.0	.117	.056	.016	.115	.056	.016	.111	.055	.015	.108	.054	.015	.104	.053	.015	

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	.172	.157	.144	.147	.135	.124	.101	.093	.085	.058	.054	.050	.019	.017	.016		
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013		
3.0	.145	.114	.088	.125	.098	.077	.086	.068	.054	.049	.040	.032	.016	.013	.010		
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.009		
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007		
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006		
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005		
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.100	.059	.031	.086	.051	.027	.060	.036	.019	.035	.021	.012	.011	.007	.004		
10.0	.095	.055	.027	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:15 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm											
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEEE:LED						WEIGHT:					
SPEC.:						DIM.:		SERIAL No.:1			
MFR.: DARKON						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	2H	23.4	24.4	23.7	24.6	24.8	23.4	24.4	23.6	24.5	24.7
	3H	24.2	25.1	24.4	25.3	25.5	24.1	25.0	24.3	25.2	25.4
	4H	24.6	25.4	24.9	25.7	25.9	24.5	25.3	24.7	25.5	25.8
	6H	25.0	25.8	25.3	26.0	26.3	24.8	25.6	25.1	25.9	26.1
	8H	25.1	25.9	25.4	26.2	26.4	25.0	25.7	25.3	26.0	26.3
	12H	25.2	26.0	25.5	26.2	26.5	25.1	25.8	25.4	26.1	26.3
4H	2H	23.6	24.4	23.8	24.6	24.9	23.5	24.3	23.8	24.6	24.8
	3H	24.5	25.3	24.9	25.5	25.8	24.4	25.2	24.8	25.5	25.7
	4H	25.1	25.8	25.5	26.1	26.4	25.0	25.7	25.4	26.0	26.3
	6H	25.7	26.3	26.1	26.6	27.0	25.5	26.1	25.9	26.5	26.8
	8H	25.9	26.5	26.3	26.8	27.2	25.7	26.3	26.1	26.7	27.0
	12H	26.1	26.6	26.5	26.9	27.3	25.9	26.4	26.3	26.8	27.2
8H	4H	25.3	25.9	25.7	26.2	26.6	25.2	25.8	25.6	26.1	26.5
	6H	26.0	26.5	26.5	26.9	27.3	25.9	26.4	26.3	26.8	27.2
	8H	26.3	26.7	26.8	27.2	27.6	26.2	26.6	26.6	27.0	27.5
	12H	26.6	26.9	27.1	27.4	27.8	26.4	26.8	26.9	27.2	27.7
12H	4H	25.3	25.8	25.7	26.2	26.6	25.2	25.7	25.6	26.1	26.5
	6H	26.1	26.5	26.5	26.9	27.3	26.0	26.4	26.4	26.8	27.2
	8H	26.4	26.8	26.9	27.2	27.7	26.3	26.6	26.8	27.1	27.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.6					+ 0.4 / - 0.6					
1.5H	+ 1.0 / - 0.6					+ 0.8 / - 0.6					
2.0H	+ 1.2 / - 0.5					+ 1.2 / - 0.5					

CIE Pub.117 Corrected 823.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.7)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:15 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

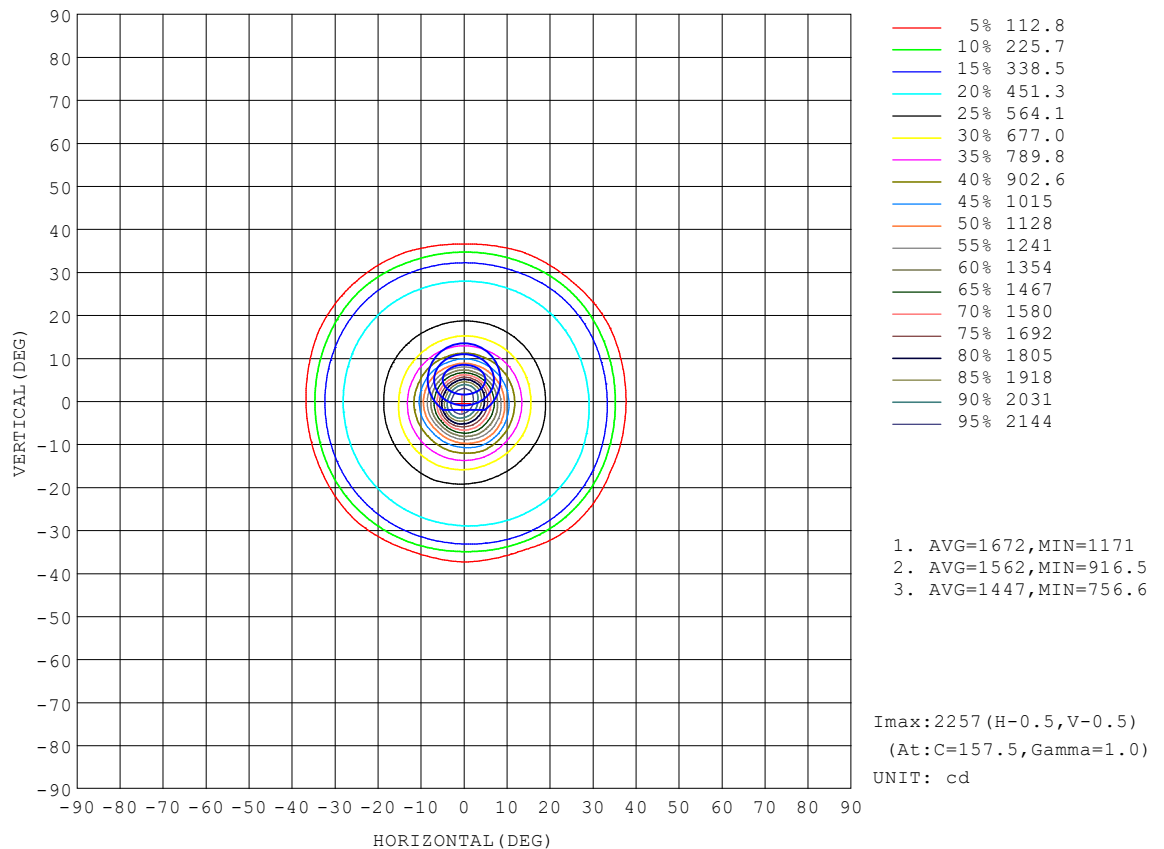
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	75	72	68
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	89	85	95	89	85	93	89	84	80
1.25	100	94	90	99	94	90	97	92	89	84
1.50	103	98	94	102	97	93	100	95	92	87
2.00	106	102	98	105	100	97	102	98	96	90
2.50	108	104	101	107	103	100	104	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	113	109	107	110	108	105	107	105	103	95
5.00	114	111	109	112	109	108	108	106	104	97
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHR NOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JEFF  
Test Date: 15 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.890m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

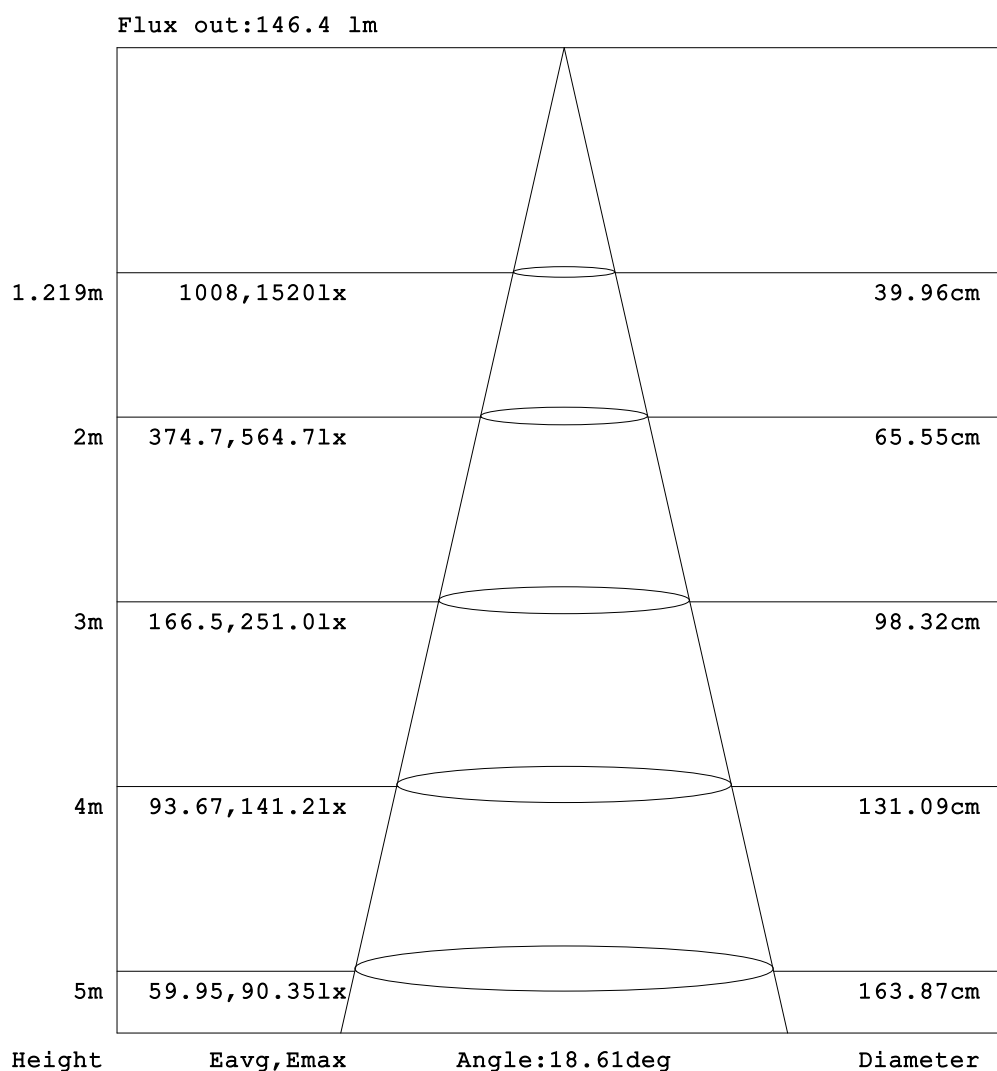


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:15 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

**AAI Figure**

Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



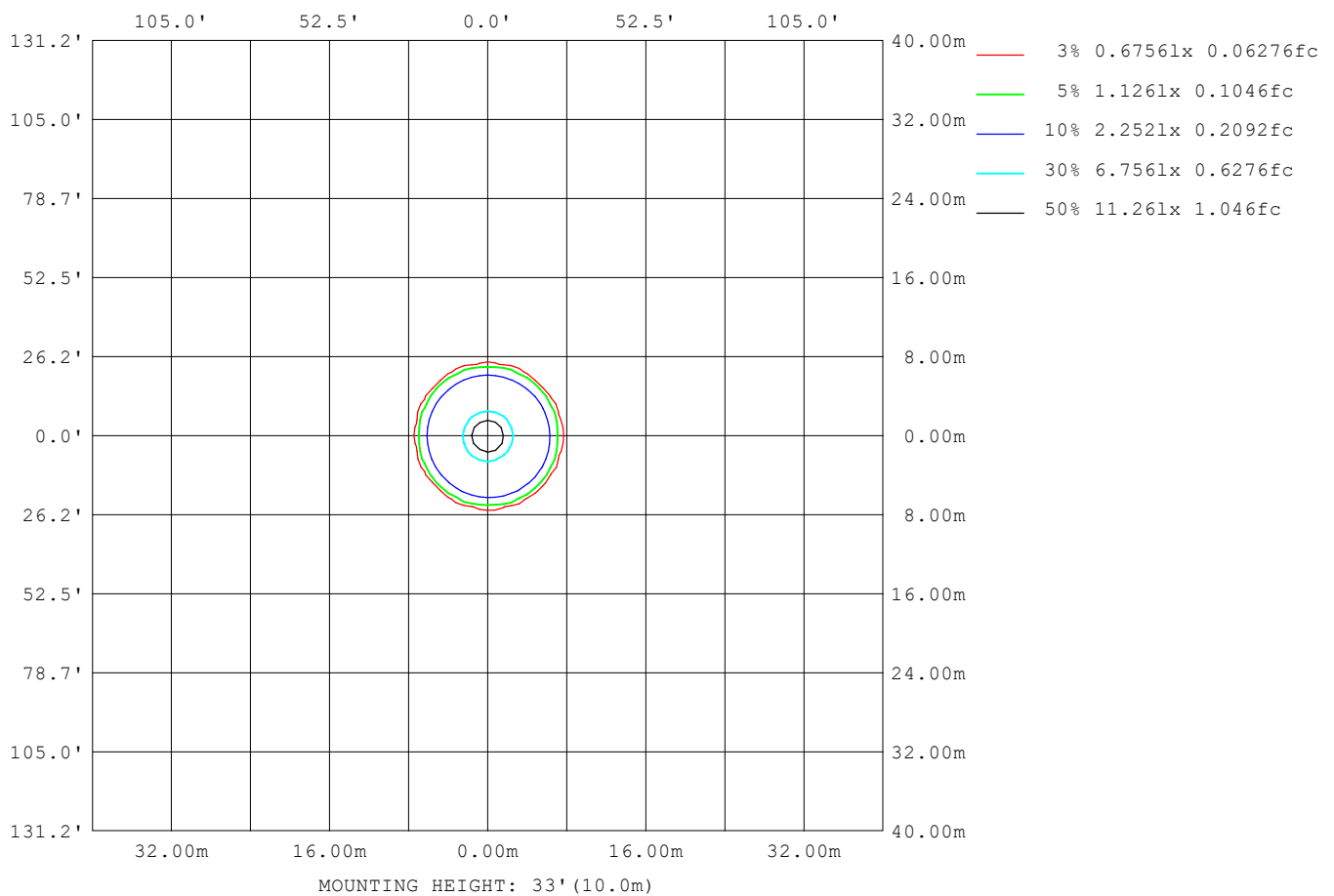
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:15 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:15 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:239.7V I:0.0488A P:10.38W PF:0.8861 Lamp Flux:822.95x1 lm		
NAME: DEEPER DOWN_SLE G7 09mm_250mA_4000K CRI90_24 DEE:LED	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:1
MFR.: DARKON	SUR.:	Shielding Angle:

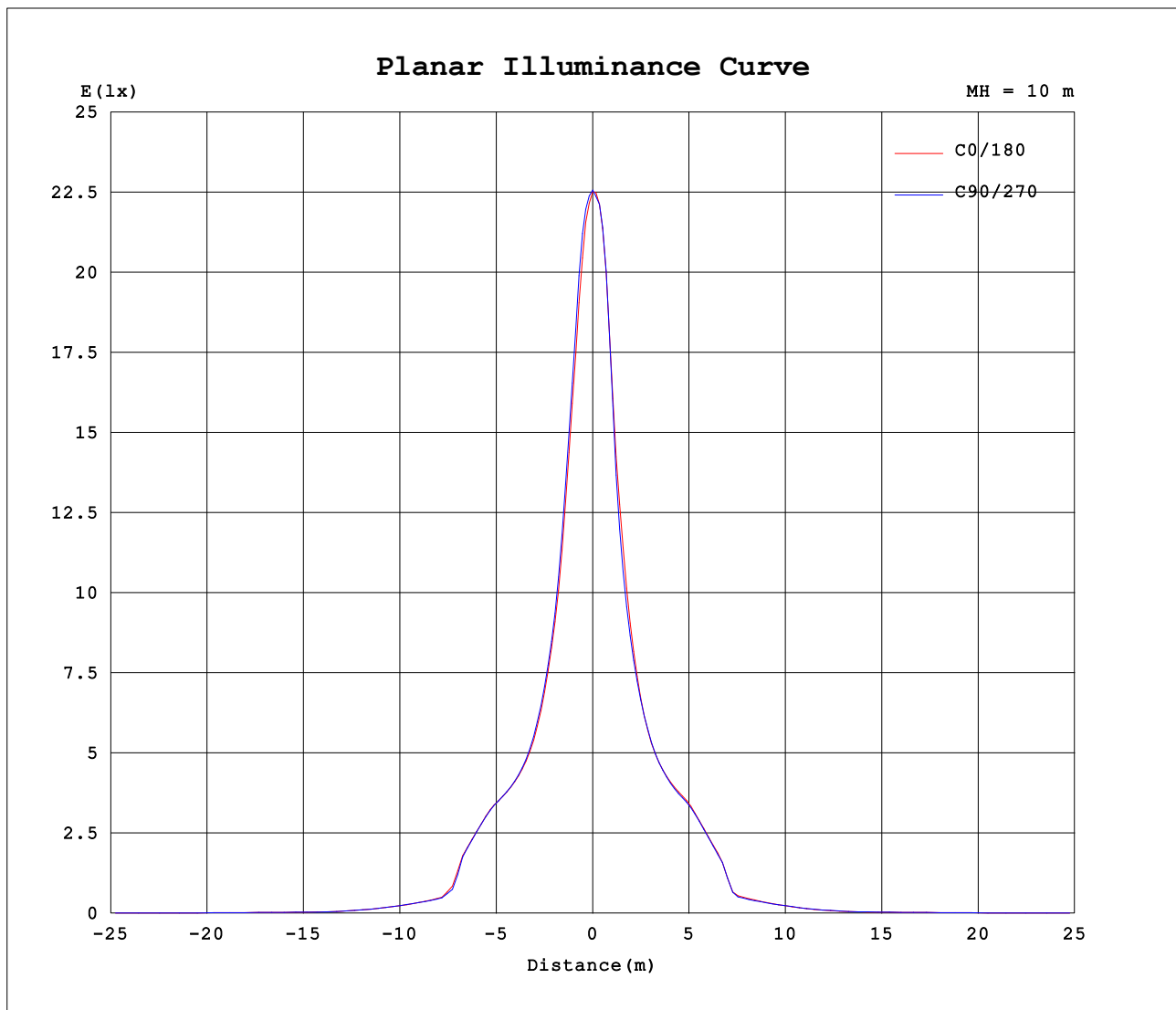
AvgL	cd/m2
L_0~180 (65) av	37397
L_0~180 (75) av	38992
L_0~180 (85) av	34641
L_90~270 (65) av	37330
L_90~270 (75) av	38938
L_90~270 (85) av	34616
L_45 (65) av	37340
L_45 (75) av	38928
L_45 (85) av	34651

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JEFF  
Test Date:15 January 2024

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:7.890m [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: 15 January 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 7.890m [K=1.0000]  
Remarks:

